

PROVISIONAL BILLS OF QUANTITIES
FOR
REPAIR AND RENOVATIONS AT KIMBERLEY WEIGHBRIDGE
FOR
Department of Transport, Safety and Liason

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SECTION NO. 1

PRELIMINARIES AND GENERAL

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PRELIMINARIES AND GENERAL

MEANING OF TERMS 'TENDER / TENDERER'

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'

PRELIMINARIES

The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein.

The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause.

These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable".

PRICING OF PRELIMINARIES

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

A1.0 DEFINITIONS AND INTERPRETATION

1 Clause 1.0

Clause 1.1 Definition of "Commencement Date" is added:

"COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect

Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:

"CONSTRUCTION GUARANTEE" means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule

Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:

"CONSTRUCTION PERIOD" means the period commencing on the commencement date and ending on the date of practical completion

Clause 1.1 Definition of "Corrupt Practice" is added:

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"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 the following:

"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)

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

Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

Clause 1.6.4 is amended by replacing it with the following:

No clause

Item

OBJECTIVE AND PREPARATION

A2.0 OFFER, ACCEPTANCE AND PERFORMANCE

2 Clause 2.0

Item

A3.0 DOCUMENTS

3 Clause 3.0

Clause 3.2.1 is amended by replacing "14.1" with "14.0"

Clause 3.7 is amended by the addition of the following:

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	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times. Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer" <u>A4.0 DESIGN RESPONSIBILITY</u>	Item
4	Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause. <u>A5.0 EMPLOYER'S AGENTS</u>	Item
5	Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8 <u>A6.0 SITE REPRESENTATIVE</u>	Item
6	Clause 6.0 <u>A7.0 COMPLIANCE WITH REGULATIONS</u>	Item
7	Clause 7.0 Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification. <u>A8.0 WORKS RISK</u>	Item
8	Clause 8.0 <u>A9.0 INDEMNITIES</u>	Item
9	Clause 9 <u>A10.0 WORKS INSURANCES</u>	Item
10	Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.5 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 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	
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(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 destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6

(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 32.0 hereof

10.6 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

(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

10.7 High risk insurance

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11	In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply: 10.7.1 Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs 10.7.2 Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract 10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole. <u>A11.0 LIABILITY INSURANCES</u>	Item	
	Clause 11.0	Item	
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12	<u>A12.0 EFFECTING INSURANCES</u>	Item
	Clause 12.0	
13	<u>A13.0 No clause</u>	
	<u>A14.0 SECURITY</u>	
13	Clause 14.0	
	Causes 14.1 - 14.8 are amended by replacing them with the following:	
	14.1 In respect of contracts with a contract sum up to R1 million the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)	
	14.1.1 The payment reduction of the value certified in the payment certificate shall be mutatis mutandi in terms of 31.8(A)	
	14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor	
	14.2 In respect of contractors with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6 or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from the commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected	
	14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum. (excluding VAT) has been selected:	
	14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date.	
	14.3.2 Within twenty-one (21) calendar days of the date of practical completion of works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor	
	14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor	
	14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.	
	14.3.5 The employer shall be entitled to recover the 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.	
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14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party

14.4 Where security as variables construction guarantee of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement day

14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender

14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring

14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee

14.5 Where security as fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)

14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical

14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring

14.5.4 The payment reduction of the value certified in the payment certificate shall be in terms of 31.8 (A) and 34.8

14.5.5 Where the employer has the right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the construction guarantee or may recover from the payment reduction or may be both

14.6 Where security as cash deposit of five per cent (5%) of the contract sum (excluding VAT) and payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:

14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor

14.6.3 The payment reduction of value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)

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14	14.6.4 Where the employer has the right of recovery against the contractor in terms of 33.0 the employer may issue a written demand in terms of 33.4 or may recover from the payment reduction or may be both 14.7 Where security as payment reduction of ten per cent (10%) of the value certified in payment certificate (excluding VAT) has been selected: 14.7.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(B) 14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provision of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor 14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement 14.9 Should the contractor fail to furnish the security in terms of 14.2, the employer in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT) whereafter 14.7 shall be applicable <u>EXECUTION</u> <u>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</u> Clause 15.0 Clause 15.1.1 is amended by replacing it with: No clause Clause 15.1.2 is amended by replacing it with: The security selected in terms of 14.0 Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4 <u>A16.0 ACCESS TO THE WORKS</u> Clause 16.0 <u>A17.0 CONTRACT INSTRUCTIONS</u> Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"	Item	
		Item	
		Item	
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	<u>A18.0 SETTING OUT OF THE WORKS</u>		
17	Clause 18.0	Item	
	<u>A19.0 ASSIGNMENT</u>		
18	Clause 19.0	Item	
	<u>A20.0 NOMINATED SUBCONTRACTORS</u>		
19	Clause 20.0		
	Clause 20.1.3 is amended by replacing it with the following:		
	No clause		
	Note:		
	See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums	Item	
	<u>A21.0 SELECTED SUBCONTRACTORS</u>		
20	Clause 21.0 Clause 21 is amended by replacing it with:		
	No clause	Item	
	<u>A22.0 EMPLOYER'S DIRECT CONTRACTORS</u>		
21	Clause 22.0	Item	
	<u>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u>		
22	Clause 23.0	Item	
	<u>COMPLETION</u>		
	<u>A24.0 PRACTICAL COMPLETION</u>		
23	Clause 24.0	Item	
	<u>A25.0 WORKS COMPLETION</u>		
24	Clause 25.0	Item	
	<u>A26.0 FINAL COMPLETION</u>		
25	Clause 26.0		
	Clause 26.1.2 is amended by inserting "#" next to 26.1.2	Item	
	<u>A27.0 LATENT DEFECTS LIABILITY PERIOD</u>		
26	Clause 27.0	Item	
	<u>A28.0 SECTIONAL COMPLETION</u>		
27	Clause 28.0	Item	
	<u>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</u>		
28	Clause 29.0		
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	Clause 29.2.5 is amended by replacing it with: No clause	Item
	<u>A30.0 PENALTY FOR NON-COMPLETION</u>	
29	Clause 30.0	Item
	<u>PAYMENT</u>	
	<u>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</u>	
30	Clause 31.0	
	Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"	
	Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A	
	31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:	
	31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion	
	31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion	
	31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6	
	31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate Alternative B	
	31.8(B) Where security as a payment reduction in terms of 14.7 has been selected, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments	
	31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion	
	31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion	
	31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6	
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	31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate Clause 31.12 is amended by deleting the following: Payment shall be subject to the employer giving the contractor a tax invoice for the amount due <u>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</u>	
31	Clause 32.0 Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor" <u>A33.0 RECOVERY OF EXPENSE AND LOSS</u>	Item
32	Clause 33.0 <u>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</u>	Item
33	Clause 34.0 Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by removing "#" next to 34.2 Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1" Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due" <u>A35.0 PAYMENT TO OTHER PARTIES</u>	Item
34	Clause 35.0 <u>CANCELLATION</u> <u>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u>	Item
35	Clause 36.0 Clause 36.1 is amended by the addition of the following clauses: 36.1.3 refuses or neglects to comply strictly with any of the conditions of contract 36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa 36.1.5 in the judgment of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"	
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36	Clause 36.0 is amended by the addition of the following clause: 36.7 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 date stated 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 <u>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u>	Item
	Clause 37.0 Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)" Clause 37.0 is amended by the addition of the following clause: 37.5 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 date stated 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 <u>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u>	Item
	Clause 38.0 Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)" Clause 38.0 is amended by the addition of the following clause: 38.7 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 date stated 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 <u>A39.0 CANCELLATION - CESSATION OF THE WORKS</u>	Item
38	Clause 39.0 Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) working days of completion of such a report" <u>DISPUTE</u> <u>A40.0 DISPUTE SETTLEMENT</u>	Item
	Clause 40.0	
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	Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years" Clause 40.6 is amended by removing the reference to: No clause Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following: Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs	Item	
	<u>SUBSTITUTE PROVISIONS</u> <u>A41.0 STATE CLAUSES</u>		
40	Clause 41.0	Item	
	<u>CONTRACT VARIABLES</u> <u>A42.0 THE SCHEDULE (DPW-04EC)</u>		
41	Clause 42.0		
	Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract	Item	
	<u>SECTION B: JBCC PRELIMINARIES</u> <u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
42	B1.1 Definitions and interpretation		
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section.	Item	
	<u>B2.0 DOCUMENTS</u>		
43	B2.1 Checking of documents	Item	
44	B2.2 Provisional bills of quantities	Item	
45	B2.3 Availability of construction documentation	Item	
46	B2.4 Interests of agents	Item	
47	B2.5 Priced documents	Item	
48	B2.6 Tender submission		
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"	Item	
	<u>B3.0 THE SITE</u>		
49	B3.1 Defined works area	Item	
50	B3.2 Geotechnical investigation	Item	
51	B3.3 Inspection of the site	Item	
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52	B3.4 Existing premises occupied	Item	
53	B3.5 Previous work - dimensional accuracy	Item	
54	B3.6 Previous work - defects	Item	
55	B3.7 Services - known	Item	
56	B3.8 Services - unknown	Item	
57	B3.9 Protection of trees	Item	
58	B3.10 Articles of value	Item	
59	B3.11 Inspection of adjoining properties	Item	
	<u>B4.0 MANAGEMENT OF CONTRACT</u>		
60	B4.1 Management of works	Item	
61	B4.2 Programme for the works	Item	
62	B4.3 Progress meetings	Item	
63	B4.4 Technical meetings	Item	
64	B4.5 Labour and plant records	Item	
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>		
65	B5.1 Samples of materials	Item	
66	B5.2 Workmanship samples	Item	
67	B5.3 Shop drawings	Item	
68	B5.4 Compliance with manufacturers' instructions	Item	
	<u>TEMPORARY WORKS AND PLANT</u>		
69	B6.1 Deposits and fees	Item	
70	B6.2 Encloser of the works	Item	
71	B6.3 Advertising	Item	
72	B6.4 Plant, equipment, sheds and offices	Item	
73	B6.5 Main notice board	Item	
74	B6.6 Subcontractors' notice board	Item	
	<u>B7.0 TEMPORARY SERVICES</u>		
75	B7.1 Location	Item	
76	B7.2 Water	Item	
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77	B7.3 Electricity	Item
78	B7.4 Telecommunication facilities	Item
79	B7.5 Ablution facilities	Item
<u>PRIME COST AMOUNTS</u>		
80	B8.1 Responsibility for prime cost amounts	Item
<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
81	B9.1 General Attendance	Item
82	B9.2 Special Attendance	Item
83	B9.3 Commissioning - fuel, water and electricity	Item
<u>B10.0 FINANCIAL ASPECTS</u>		
84	B10.1 Statutory taxes, duties and levies	Item
85	B10.3 Adjustment of preliminaries	
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"	Item
86	B10.4 Payment certificate cash flow	Item
<u>B11.0 GENERAL</u>		
87	B11.1 Protection of the works	Item
88	B11.2 Protection/isolation of existing/sectionally occupied works	Item
89	B11.3 Security of the works	Item
90	B11.4 Notice before covering work	Item
91	B11.5 Disturbance	Item
92	B11.6 Environmental disturbance	Item
93	B11.7 Works cleaning and clearing	Item
94	B11.8 Vermin	Item
95	B11.9 Overhand work	Item
96	B11.11 As built information	Item
97	B11.12 Tenant installations	Item
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<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
<u>SCHEDULE OF VARIABLES</u>		
<u>Schedule of variables:</u>		
98 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	Item	
<u>12.1 PRE-TENDER INFORMATION</u>		
12.1.1 Provisional bills of quantities		
[2.2] The quantities are provisional (Yes/No) = Yes		
12.1.2 Availability of construction documentation		
[2.3] Construction documentation is not complete (Yes/No) = Yes		
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 = There is no investigation attached nor carried out on site		
12.1.6 Existing premises occupied		
[3.4] Specific requirements:		
12.1.7 Previous work - dimensional accuracy		
[3.5] Details: The contractor is responsible for the accuracy and in the event that existing work done prior to the site possession is inaccurate, the contractor is to inform the principal agent immediately		
12.1.8 Previous work - defects		
[3.6] Details:		

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12.1.9 Services - known [3.7] Details: 12.1.10 Protection of trees [3.9] Specific requirements: The contractor is to preserve all trees on site and is to request instruction from the Principal Agent where trees are constricting the work areas or progress of work. 12.1.11 Inspection of adjoining properties [3.11] Specific requirements: The contractor is to ensure that no harm comes to adjoining buildings or property during the progress of the works. 12.1.12 Enclosure of the works [6.2] Specific requirements: The contractor is to enclose the works in the manner necessary to prevent members of the public, the client's workers or any other persons from being hurt due to coming into areas where construction activities are under way. 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. <u>Defined works area</u> 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 type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering 12.1.15 Subcontractors' notice board [6.6] A Notice Board is required (Yes/No) = No No Specific requirements: Not Applicable 12.1.16 Water [7.2]		
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Option A - by Contractor = Option A Applicable

Option B - by employer (free of charge)

Option C - by employer (metered)

12.1.17 Electricity [7.3]

Option A - by Contractor = Option A Applicable

Option B - by employer = (free of charge)

Option C - by employer = (metered)

12.1.18 Telecommunications

[7.4] Telephone (Yes/No) = Yes

Facsimile (Yes/No) = No

12.1.19 Ablution facilities

[7.5] Option A (by contractor) (Yes/No) = Option A Applicable

Option B (by employer) (Yes/No) = No

12.1.20 Protection of existing/sectionally occupied works

[11.2] Protection is required (Yes/No) = Yes

12.1.21 Special attendance

[9.2] Subcontractor (1) details = Not applicable

12.1.22 Protection of the works

[11.1] Specific requirements:

All precautions are to be taken to prevent damage or harm to the works. The client is to be indemnified against any and all eventualities. The existing buildings are to be insured against damage by the employer. However the contractor is to take all necessary precautions to prevent damage to existing buildings and property whilst he is in possession of the site.

12.1.23 Disturbance

[11.5] 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:

The contractor is to ensure that no environmental damage occurs on or over the site during the execution of the works and whilst he is in possession of the site. All precautions are to be taken to ensure that the water, soil, vegetation and air on and over the site are not contaminated whilst the contractor is in possession of the site.

12.2 POST-TENDER INFORMATION

12.2.1 Payment of preliminaries

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[10.2] Option A (prorated) (Yes/No) = Yes Option B (calculated) (Yes/No) 12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) (Yes/No) = Yes Option B (detailed breakdown) (Yes/No) 12.2.3 Additional agreed preliminaries items Details: ----- ----- -----		
<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
<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		
<u>C1 CONTRACT DRAWINGS</u>		
99	* The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed 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.	Item
<u>C2 GENERAL PREAMBLES</u>		
100	The document "Specification of Materials and Methods to be used (PW371-A) and (PW371-B)" is obtainable on the Department's website http://www.publicworks.gov.za/PDFs/consultants_docs/2013/2/PW371-A%20General%20Specification%20edition%202.0_July_2013.pdf and http://www.publicworks.gov.za/PDFs/consultants_docs/2013/2/PW371-B%20Particular%20Specification%20edition%202.0%20July2013.docx under "Consultants Guidelines), and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used	Item
<u>C3 TRADE NAMES</u>		
101	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	Item
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	<u>C4 IMPORTED MATERIALS AND EQUIPMENT</u>	
102	Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer) 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)	Item
	<u>C5 VIEWING THE SITE IN SECURITY AREAS</u>	
103	The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes	Item
	<u>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</u>	
104	As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account	Item
	<u>C7 ENTRANCE PERMITS TO SECURITY AREAS</u>	
105	As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer	Item
	<u>C8 SECURITY CHECK OF PERSONNEL</u>	
	<u>Details:</u>	
106	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified 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	Item
	<u>C9 PROHIBITION ON TAKING OF PHOTOGRAPHS</u>	
107	In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister	
	The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959	Item
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<u>C10 HIV/AIDS AWARENESS</u>		
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		
<u>C10.1 AWARENESS CHAMPION</u>		
108	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification	Item
<u>C10.2 AWARENESS WORKSHOPS</u>		
109	Selection and appointment of a competent Service Provider approved 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	Item
<u>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</u>		
110	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	Item
<u>C10.4 ACCESS TO CONDOMS</u>		
111	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	Item
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<u>C10.5 MONITORING</u>		
112	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	Item
<u>C11 OCCUPATIONAL HEALTH AND SAFETY ACT</u>		
113	The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). 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. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the 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. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment. 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.	Item
114	The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). 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. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the 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. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.	
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	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. Refer to the attached specification at the back of these bills of quantities <u>EPWP</u> <u>Expanded Public works programme:</u> 115 The contractor is to keep records of labour in terms of labour employed and submit labour records from a reliable payroll system that corresponds with the South African law governing labour records. 116 EPWP fourtnightly reporting: The Tenderer is to submit a monthly report on the template available from the Principal Agent at the site handover, which requires labour amounts spent and reported dermographically, geographically and also values spent on EPWP labour. <u>CARTING OF WATER FOR CONSTRUCTION</u> <u>Carting of water on site</u> 117 The contractor is to make provision to cart water onto site as there maybe no suffitient water available on site. <u>PORTFOLIO OF EVIDENCE</u> <u>GPS Tagged photos:</u> 118 The contractor shall use a camera with a function that adds GPS co-ordinates to the saved photos under the properties of the photo. If the photos are not showing the GPS co-ordinates matching those of the site address of this bid, then the photos cannot be used as evidence. <u>Proof of Depths of foundation excavations:</u> 119 The contractor is to take and email to the Quantity Surveyor, GPS tagged photos of the: a) Excavation depths vs natural ground/ reduced level b) Top of footing vs natural ground/ reduced level c) Top of Surface bed vs natural ground/ reduced level Note: The above is to be taken at all external corners of the building, by means of a surveying staff.	Item Item Item Item Item Item Item
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<u>ELECTRICAL INSTALLATION & OTHER SUBCONTRACTOR'S PRELIMINARIES</u> <u>Selected/Nominated/Domestic Subcontractors preliminaries and other indirect costs are to be priced herein under as there will be no compensation for extra preliminaries for the contractors subcontractors:</u>		
120	Fixed, Value and time related items	Item
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PRELIMINARIES AND GENERAL

SECTION SUMMARY

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SECTION NO. 2

BUILDING WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 1</u> <u>ALTERATIONS [PROVISIONAL]</u> <u>SUPPLEMENTARY PREAMBLES</u> Descriptions and preambles The full descriptions of the items and all preambles in other trades, shall, unless otherwise stated, be applicable to the relevant items in this trade. General In the taking down and removal of existing work, the utmost care is to be observed to avoid any structural or other damage to the remaining portion of the building. The contractor must provide for all strutting, shoring, supporting, etc., to stabilise the existing structure when alterations are in process. The utmost care is to be observed when existing electrical installation, electronic installation, water pipes, telephone and other services are encountered during the alterations and tampering with this services will not be allowed. The Representative/Agent must be given notice where disconnections or alterations to existing services are to be encountered. The contractor must prevent any nuisance from dust when work is in process. Repairing of existing work The contractor must allow for making good in all trades to existing work where damaged or disturbed by any alterations and/or removal of existing fixed and/or non-fixed structures with all necessary new materials to match existing and leave complete and perfect in every respect. Form new openings or alter existing openings Unless otherwise described, the wording "Form new openings" or "Alter existing openings" shall be deemed to include the breaking out of existing brickwork or blockwork, building up of new brickwork or blockwork, casting of new in-situ concrete, prestressed precast concrete lintels, formwork, strutting, etc., the building up of reveals or portions of the opening as described with brickwork or blockwork, toothing and bonding to existing work and making good of existing surfaces on both sides and reveals as described.				
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Alterations [provisional]				

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	Unit	Quantity	Rate	Amount
Building up of openings Unless otherwise described, the wording "Build up existing openings" shall be deemed to include for preparing of existing surfaces, building up brickwork or blockwork, toothing and bonding to existing brickwork or blockwork, wedging up of existing work and repairing of existing surfaces on both sides as described. Existing material to become property of the contractor All existing material from the alterations which are not described as "Re-use" or "Hand over" shall be deemed to be the property of the contractor. Existing material must be carted away and included in the rates Existing material from the alterations which are not described as "Re-use" or "Hand over" and all rubble, must be carted away on regular intervals and not stored on site. Existing material shall not be re-used No existing material shall be allowed to be re-used if not described as "Re-use.....". Existing material must be set aside for re-use Material described as "set aside for re-use" shall mean that special care must be taken in the removal of any material earmarked for re-use and must be stored in a dry and protected place, until it is needed. Damage to material earmarked for re-use during the removal, store and refixing thereof shall be for contractor's expense. Handing over of existing material Where existing materials are described as "Hand over.....", such material must be carefully removed and stored until handing over thereof to the Employer. The contractor must get an official receipt from the Employer when handing over material or articles to the Employer. The date of handing over of the specific materials or articles must be stated on the receipt. If the contractor cannot produce the receipt when needed, it will be assumed that the materials are in his possession and he will be held responsible by the Employer for the replacement value thereof and this amount will be deducted from any payment from the Employer to the contractor. Removal and/or disposal of asbestos The Contractor will remove and/or dispose all existing asbestos items in strict accordance with the regulations regarding the removal and disposal of asbestos laid down by the government.				
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	Unit	Quantity	Rate	Amount
The Contractor will also refer and adhere to the Health and Safety Specification regarding the removal and/or disposal of asbestos. Rates for the removal and/or disposal of asbestos items shall be deemed to include for all prescribed regulations regarding removal and/or disposal of asbestos-related items. Service and repair The purpose of service and repair an item is to leave such an item in a perfectly working order on completion of the works, therefore the term "service and repair" includes a thorough inspection of the current working order of the item, identifying any defects and defect components, preparation of the affected area before rectifying the defects, rectifying the defects and replacing defect components with new components. ----- <u>REMOVE EXISTING WORK</u> <u>DOORS</u> <u>Take off and remove existing doors with and including frames from walls</u> 1 Timber single door and metal frame, overall approximately 900mm wide x 2100mm high, from one brick walls No 3 <u>GRILLES, GATES, ETC.</u> <u>Take off and remove existing steel grilles, gates, cages, etc. bolted to brick walls and/or concrete floors</u> 2 Steel security screen, size overall approximately 1300mm wide x 1500mm high, bolted to face brick wall No 3 3 Steel security screen, size overall approximately 1000mm wide x 800mm high, bolted to face brick wall No 2 <u>FLOOR FINISHES</u> <u>Take up and remove existing floor finishes, including all underlays, bitumen, glue, cementious adhesives and all other adhesives leaving the exposed surface free from any underlays, adhesives, debris, dirt, etc.</u> 4 Vinyl tiles, including timber skirtings and quadrants m² 36 5 Ceramic floor tiles, including timber skirtings and quadrants m² 4 Carried to Collection R Section No. 2 Bill No. 1 Alterations [provisional]				
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	Unit	Quantity	Rate	Amount
<u>WALL FINISHES</u>				
<u>Hack up/off and remove existing tiles, including all cementitious adhesives and all other adhesives leaving the exposed surface free from any adhesives, debris, dirt, etc.</u>				
6 Ceramic tiles from plastered walls	m ²	1		
<u>CEILINGS</u>				
<u>Take down and remove existing fibre cement, gypsum or soft board ceilings</u>				
7 Nailed-up ceilings, complete with and including cornices, from existing timber brandering	m ²	40		
<u>FITTINGS</u>				
<u>Take out and remove fittings</u>				
8 Damaged floor cupboard, approximately 1250mm long x 600mm deep x 900mm high	No	1		
<u>SANITARY FITTINGS</u>				
<u>Take out/off and remove sanitary fittings, including disconnecting pipes from fittings and making good existing floor and wall structures (new floor and wall finishes elsewhere measured)</u>				
<u>From cement screeded floors and plastered walls</u>				
9 Vitreous China WC suite, comprising pan and uPVC cistern and steel cistern cage bolted to external face of adjacent external wall, complete with and including flush pipe, service pipes, stop cocks, angle regulating valves, sewer pipes, etc.; repair holes in brick wall (face brick external and plaster internal) where cistern, cistern cage and flush pipe are removed with and including 3:1 cement mortar, coloured to match colour of existing face brick, finished smooth and flush with adjacent plastered and face brick surfaces	No	1		
<u>From plastered walls</u>				
10 Wall mounted Vitreous China wash hand basin, complete with and including wall brackets, pillar taps, service pipes, traps, waste pipes, etc.	No	1		
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		Unit	Quantity	Rate	Amount
<u>SANITARY PLUMBING</u>					
<u>Take out/off and remove waste pipes and pipe fittings (i.e. bends, junctions, etc.), traps, etc., including disconnecting pipes from fittings and making good existing floor and wall finishes</u>					
11	uPVC pipes not exceeding 50mm diameter from plastered walls	m	4		
12	Bib taps from plastered walls	No	2		
<u>MECHANICAL EQUIPMENT</u>					
13	Remove existing air conditioning unit, approximately 700mm wide 600mm high, from 230mm brick wall, including disconnection of electrical supply	No	1		
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ALTERATIONS [PROVISIONAL]

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Alterations [provisional]

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	Unit	Quantity	Rate	Amount
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<u>BUILDING WORKS</u>				
<u>BILL NO. 2</u>				
<u>ROOF COVERINGS</u>				
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent				
NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors				
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0.8mm Z275 spelter galvanised IBR steel sheets in single lengths with "chromadek" finish of approved standard colour on one side and standard grey backing finish on reverse side, fixed to timber purlins or rails</u>				
1 Roof covering with pitches not exceeding 25 degrees	m ²	45		
<u>0.8mm Z275 spelter galvanised IBR steel sheets accessories to preceding roof covering with "chromadek" finish of approved standard colour on one side and standard grey backing finish on reverse side, fixed to timber purlins or rails</u>				
2 Ridge capping 650mm girth	m	7		
3 Valley covering 650mm girth	m	14		
<u>ROOF AND WALL INSULATION</u>				
4 Double sided reflective aluminium foil faced insulation barrier, with reflective facing to be exposed to roof sheets	m ²	45		
5 30mm Flexible faced polyisocyanurate insulation boarding, laid over purlins (at approximately 600mm centres) and fixed concurrent with roof covering, including holes through boards etc	m ²	45		
Carried To Section Summary			R	
Section No. 2				
Bill No. 2				
Roof Coverings				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 3</u> <u>CARPENTRY AND JOINERY</u> NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <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>Joinery</u> Descriptions of frames shall be deemed to include frames, transomes, rails, etc Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts <u>Decorative thermosetting plastic laminate covering</u> Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish <u>ROOFS ETC</u> <u>Sundries</u> 1 Two coats carbolineum on sawn timbers				
	m ²	72		
<u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u> <u>SUPPLEMENTARY PREAMBLES</u> Trusses are at maximum 900mm centres Roof coverings are on purlins Ceilings are plasterboard and fibre cement on 38 x 38mm brandering Carried to Collection				
Section No. 2 Bill No. 3 Carpentry And Joinery				R
150				

	Unit	Quantity	Rate	Amount
References given in descriptions refer to the respective types of trusses detail				
References given in descriptions refer to the respective types of trusses detailed on the architect's/engineer's drawings for tender purposes				
Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
<u>Design Responsibility</u>				
The contractor shall be responsible for the design of the timber roof construction. The contractor will submit shop drawings for approval to the engineer/architect within two weeks after the date of appointment. The contractor shall commence manufacturing only after written approval of shop drawings from the engineer /architect				
<u>Timber roof construction</u>				
<u>The following is applicable in respect of prefabricated timber roof truss construction:</u>				
<u>Site inspection and liaison with main contractor</u>				
The trusses subcontractor is advised to liaise with the main contractor on site and confirm all the dimensions prior to design, fabrication and installation of the timber roof structures				
<u>Plate nailed timber roof truss construction</u>				
<u>Sawn softwood grade 6 S.A Pine</u>				
2 228 x 38mm Common rafters in lengths not exceeding 6.6m	m	60		
3 Roof construction to double pitched roof complete with two gable end two sides, 5,81 x 7.6m overall on plan and 1860mm high overall, including trusses, jack rafters, permanent bracing and 50 x 75mm purlins at 600mm centres, etc., for roof sheeting.	No	1		
<u>EAVES, VERGES, ETC</u>				
<u>Medium density plain fibre-cement fascias and barge boards</u>				
4 225 x 12mm Fascias and barge boards, including galvanised steel profile joiners	m	41		
Carried to Collection			R	
Section No. 2				
Bill No. 3				
Carpentry And Joinery				

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	Unit	Quantity	Rate	Amount
Trusses are at maximum 1 500mm centres. Roof covering to be IBR (0.8mm) thick approved light industrial Z275 spelter "Chromadek" galvanised steel sheeting (by others). Gypsum plaster board and fibre cement ceilings and / or suspended ceilings will be installed below roof trusses (ceilings elsewhere measured) The dimensions in the descriptions of the roofs are scaled and are only a broad indication of the scope of the works. The contractor is required to obtain actual measurements from the Architect and/or the site before design or fabrication commences. Rates to include for complete roof structures including all fixing, hoisting, all rafter end splaying, wall plates, battens, edge battens, bracing, ridge rafters, valley rafters, etc <u>DOORS ETC</u> <u>Wrought meranti doors hung to timber frames</u> 5 44mm 'C.K.S.' Framed batten door 2032 x 813mm high of 150 x 44mm top rail and stiles, 150 x 16mm middle ledge and braces and 230 x 22mm bottom ledge filled in with 22mm V jointed one side boarding filled in at the back with plywood veneer <u>40mm Semi-solid flush doors with 3,2mm plain hardboard covering on both sides and two concealed edges, hung to timber frames</u> 6 Door 813 x 2032mm high <u>FITTINGS</u> <u>CUPBOARDS TO KITCHENS, SHELVING, DESKS, ETC</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>General</u> The following fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc <u>References</u> References given in descriptions refer to the respective types of fittings detailed on the architect's drawings accompanying these bills of quantities for tender purposes				
	No	3		
	No	1		
Carried to Collection				R
Section No. 2				
Bill No. 3				
Carpentry And Joinery				

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	Unit	Quantity	Rate	Amount
<u>Shelving with SA Pine framing, shelves, side and back panels, etc., complete as per Architect's Drawings</u>				
7 600 x 32mm Thick 'Formica Lifeseal' timber worktop modern square profile with tight radius and edging strip on sides complete including 30 x 30 x 2mm mild steel bracket, bolts, etc.	m	4		
8 Floor drawer cupboard 1570 x 900mm high overall with sides, bottom, division,shelves, doors, framework, etc	No	1		
<u>Shelves consisting of shelves, frame, marine ply timber base with 2mm brushed aluminium kick plate, 19mm hardwood backboard, 8mm pins, etc., complete as per architect's drawings</u>				
9 Floor open shelf cupboard 2350 x 900mm high with, sides, bottom, back, timber slats to face counter , etc	No	1		
Carried to Collection				R
Section No. 2				
Bill No. 3				
Carpentry And Joinery				

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BILL NO. 3

CARPENTRY AND JOINERY

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Bill No. 3

Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 4</u>				
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
<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>				
Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
<u>Steel components</u>				
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
<u>NAILED-UP CEILINGS</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Openings</u>				
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc				
<u>6.4mm Gypsum plaster board ceilings</u>				
1 Ceilings nailed on and including BPB Gypsum steel brandering in one direction at 400mm centres with 36 x 6mm meranti cover strips on joints	m ²	40		
2 Extra over ceiling for 600 x 600mm Gypsum plaster board trap door	No	1		
<u>Gypsum plasterboard cornices</u>				
3 75mm Coved cornices	m	32		
<u>Glass mineral wool cavitybatt insulation</u>				
4 405mm Insulation laid on top of brandering between roof timbers etc	m ²	40		
Carried To Section Summary			R	
Section No. 2				
Bill No. 4				
Ceilings Partitions And Access Flooring				

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 5</u>				
<u>IRONMONGERY</u>				
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent				
NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors				
<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>HINGES, BOLTS, ETC</u>				
<u>"Solid"</u>				
1	No	1		
Nickel plated flush bolt with keep fixed to metal				
<u>"Union"</u>				
2	No	1		
'37651AS' WC indicator bolt and keep				
<u>LOCKS</u>				
<u>"Solid"</u>				
3	No	3		
76mm Four lever upright mortice lock (Code 313/A40)				
<u>"Union"</u>				
4	No	3		
Three lever deadlock escutcheon (Code 32320-78)				
<u>HANDLES</u>				
<u>"Solid"</u>				
5	No	1		
'WATERBOK' Lever handle (Code 472/E41) on and including back plate with key hole				
Carried to Collection			R	
Section No. 2				
Bill No. 5				
Ironmongery				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 6</u> <u>METALWORK</u> NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions</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 Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described Items described as 'plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres <u>Aluminium doors, windows, etc</u> Doors and windows shall comply with AAAMSA design criteria Glazing shall comply with SAGGA regulations. Glass shall be safety glass as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed For purpose made windows and doors, refer to drawings annexed to these bills of quantities The following certificates shall be provided prior to commencement of site work 1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product				
Carried to Collection			R	
Section No. 2				
Bill No. 6				
Metalwork				

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BILL NO. 6
METALWORK
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Bill No. 6
Metalwork

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 7</u> <u>TILING</u> NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <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 plaster bedding 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 as recommended by the manufacturer of the tiles <u>WALL TILING</u> <u>"Johnson" 200 x 200 x 5mm White Glazed "A" Grade ceramic tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointed with white waterproof antifungal grout</u> 1 On walls in isolated panels, splashbacks, etc not exceeding 1m m ² 1 2 Fair exposed cutting and fitting around pipe not exceeding 100mm internal diameter No 2 3 Fair exposed cutting and fitting around pipe exceeding 100mm and not exceeding 150mm internal diameter No 2 <u>FLOOR TILING</u> <u>600 x 600 x 15mm Non-slip 'UNION' Porcelain tiles fixed with adhesive and flush pointed with tinted waterproof jointing compound</u> 4 On floors and landings m ² 36 Carried To Section Summary R				
Section No. 2 Bill No. 7 Tiling				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>BUILDING WORKS</u> <u>BILL NO. 8</u> <u>PLUMBING AND DRAINAGE</u>				
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors <u>SUPPLEMENTARY PREAMBLES</u> <u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground <u>Lead pipes and traps</u> All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings <u>Septic tanks</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings				
Carried to Collection			R	
Section No. 2 Bill No. 8 Plumbing And Drainage				

	Unit	Quantity	Rate	Amount
<u>Exposed concrete surfaces</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling 'Soft rock' and 'hard rock' shall be as defined in 'Earthworks' <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions Where no manufacturers' instructions exist pipes shall be laid in accordance with Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS/SANS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS/SANS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS/SANS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding <u>Flush pans</u> Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary <u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable				
Carried to Collection			R	
Section No. 2 Bill No. 8 Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
<u>RAINWATER DISPOSAL</u>					
<u>0.6mm Galvanised sheet iron</u>					
1	100 x 75mm Roof gutters with beaded front edge	m	15		
2	Extra over gutter for stopped end	No	4		
3	Extra over gutter for outlet for 80mm diameter pipe	No	4		
<u>PVC pipes</u>					
4	80mm Diameter rainwater downpipes	m	14		
<u>Extra over PVC pipes for fittings</u>					
5	80mm Bend	No	4		
6	80mm Tee junction	No	4		
<u>SANITARY FITTINGS</u>					
<u>'Vaal'</u>					
7	Close coupled 90 degrees outlet wall hung open rim washdown pan (Code 750200) and matching 9 litre cistern (Ccode 7116LP)complete with lid, fitments and flush pipe elbow and heavy duty A1 high traffic toilet seat cover for, colour white	No	1		
8	510x 405mm Vitreous china 'Hibiscus' basin with three semi-punched tapholes, integrated overflow and chainstay hole through centre bolted to wall with two 10mm bolts, colour white	No	1		
<u>WASTE UNIONS ETC</u>					
9	32mm Basin waste union	No	1		
10	32mm Bottle trap	No	1		
<u>TRAPS ETC</u>					
<u>'Flexitraps':</u>					
11	32 x 40mm Reseal 'P' or 'S' trap	No	1		
<u>TAPS, VALVES, ETC</u>					
<u>'Cobra Watertech'</u>					
12	15mm 126CP stopcock	No	2		
13	15mm Star wall mounted chromium plated swan neck swivel sink mixer (Code CSS 115)	No	1		
14	15mm chromium plated angle regulating valve and flexible connection pipe	No	2		
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Section No. 2					
Bill No. 8					
Plumbing And Drainage					

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		Unit	Quantity	Rate	Amount
<u>SANITARY PLUMBING</u>					
<u>PVC-U Soil and vent pipes</u>					
15	50mm pipe	m	6		
16	110mm Pipes	m	18		
17	110mm Pipes laid in and including trenches not exceeding 1m deep	m	22		
<u>Extra over PVC-U soil and vent pipes for fittings</u>					
18	50mm Bend	No	4		
19	50mm Junction	No	2		
20	50mm Access bend	No	2		
21	110 x 50mm Reducing junction	No	2		
22	110mm Bend	No	8		
23	110mm Pan connector	No	4		
24	110mm Access junction	No	2		
25	110mm Access reducing junction	No	2		
<u>Testing</u>					
26	Sundries Testing waste pipe system	Item			
<u>WATER SUPPLIES</u>					
<u>Class 0 copper pipes</u>					
27	22mm Pipes	m	18		
28	32mm Pipes	m	12		
29	22mm Pipes chased in walls	m	16		
30	32mm Pipes chased in walls	m	8		
<u>Extra over class 0 copper pipes for capillary fittings</u>					
31	22mm Fittings	No	4		
32	32mm Bend	No	6		
33	32mm Junction	No	8		
<u>SOLAR WATER HEATERS</u>					
34	110 Litre roof mounted high pressure direct solar heating system with vacuum tubes and electric backup for long cold seasons	No	1		
Carried to Collection				R	
Section No. 2					
Bill No. 8					
Plumbing And Drainage					

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PLUMBING AND DRAINAGE

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Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 9</u>				
<u>GLAZING</u>				
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent				
NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Float glass</u>				
The term 'float glass' is used for monolithic annealed glass				
<u>Laminated glass</u>				
Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>6mm Clear float safety glass</u>				
1	m ²	6		
<u>6mm Obscure glass</u>				
2	m ²	2		
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<u>6mm Silvered float glass copper backed mirrors with 1mm bevelled and polished edges, holed for and fixed with chromium plated dome headed mirror screws with rubber buffers to plugs in brickwork or concrete</u>				
3	No	1		
Carried To Section Summary				R
Section No. 2				
Bill No. 9				
Glazing				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 10</u>				
<u>PAINTWORK</u>				
NOTE: All tenderers are advised to study the Model Preambles for Trades before pricing this bill				
<u>PREPARATORY WORK TO EXISTING WORK</u>				
<u>Previously painted plastered surfaces</u>				
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
<u>Previously painted metal surfaces</u>				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
<u>Previously painted wood surfaces</u>				
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
<u>PAINTWORK TO EXISTING WORK</u>				
<u>ON FLOATED PLASTER</u>				
<u>Prepare, apply one coat "Plascon Plaster Primer UC65" and apply two coats "Plascon Double Velvet VEL"non-drip polyurethane enamel paint</u>				
1 On internal walls	m ²	114		
<u>PAINTWORK ETC TO NEW WORK</u>				
<u>ON PLASTER BOARD</u>				
<u>One coat primer, one coat universal undercoat and two coats 'Dulux'super acrylic PVA paint</u>				
2 On ceilings and cornices	m ²	40		
<u>ON WOOD SURFACES</u>				
<u>Three coats 'Woodoc 35'exteriors sealer</u>				
3 Doors	m ²	11		
Carried to Collection			R	
Section No. 2				
Bill No. 10				
Paintwork				

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	Unit	Quantity	Rate	Amount
<u>ON METAL SURFACES</u>				
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
4 On door frames	m ²	4		
5 On windows with burglar bars	m ²	10		
6 Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m ²	7		
Carried to Collection				
Section No. 2				
Bill No. 10				
Paintwork				

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Paintwork

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<u>BUILDING WORKS</u>			
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SECTION SUMMARY			

SECTION NO. 3

EXTERNAL WORKS[PROVISIONAL]

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>EXTERNAL WORKS[PROVISIONAL]</u> <u>BILL NO. 1</u> <u>EARTHWORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground</u> User Note - The following are typical examples of descriptions of 'nature of ground' The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock' The nature of the ground is assumed to be gravel, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock' The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as 'earth', but possibly interspersed with 'hard rock' Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore 'earth' A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as 'earth'. All very hard unweathered shale, ironstone, etc., the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as 'hard rock' <u>Subterranean water</u> User Note - The following are typical examples of descriptions of 'subterranean water' No subterranean water is expected The water table is expected to vary between approximately ?m and ?m below natural ground level. The removal of subterranean water is given separately <u>Excavation for working space in rock</u> Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as 'extra over' bulk excavation or trench and hole excavation as the case may be				
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	Unit	Quantity	Rate	Amount
<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				
User Note - When no information regarding density tests is available the following preamble in respect of testing may be inserted				
<u>Testing</u>				
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D				
<u>DEMOLITIONS ETC</u>				
<u>Dismantle and remove existing fence and gates</u>				
1 Fence, 2400mm high, comprising of mesh fencing, barbed wire to top of mesh fence and steel posts, corner posts, etc., complete with and including concrete bases	m	150		
2 Double swing gate, overall approximately 4500mm wide x 2400mm high, including gate posts and concrete	No	2		
3 Steel sliding gate, overall approximately 4500mm wide x 2400mm high, including gate posts and concrete bases	No	1		
<u>SITE CLEARANCE ETC</u>				
<u>Site clearance</u>				
4 Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m ²	300		
<u>EXCAVATION ETC</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
5 Holes	m ³	10		
<u>Extra over all excavations for carting away</u>				
6 Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	3		
<u>Risk of collapse of excavations</u>				
7 Sides of bulk excavations not exceeding 1,5m deep	m ²	68		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>EXTERNAL WORKS[PROVISIONAL]</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately) <u>Breeze concrete</u> Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (1:12); the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated <u>Lightweight concrete</u> Lightweight concrete shall have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc. shall be 50mm <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 Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
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Concrete, Formwork And Reinforcement				

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	Unit	Quantity	Rate	Amount
Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described 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 User Note - In order to accommodate the custom in some regions to give formwork to sides of beams, isolated beams, etc. separately from formwork to the soffits thereof, the items in respect of formwork to beams, isolated beams, etc. are given under the headings of 'Formwork to Sides', 'Formwork to Soffits' and 'Formwork to Sides and Soffits' <u>UNREINFORCED CONCRETE CAST ON/IN FORMWORK</u> <u>20MPa/19mm concrete</u>				
1 Bases	m ³	3		
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<u>SECTION NO. 3</u> <u>EXTERNAL WORKS[PROVISIONAL]</u> <u>BILL NO. 3</u> <u>METALWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Descriptions of bolts, anchors, etc.</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 Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres <u>Aluminium doors, windows, etc.</u> Doors and windows shall comply with AAAMSA design criteria Glazing shall comply with SAGGA regulations. Glass shall be type ? laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions?). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed For purpose made windows and doors, refer to drawings annexed to (issued separately with?) these bills of quantities The following certificates shall be provided prior to commencement of site work: 1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product 2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively				
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Metalwork				

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3 A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process 4 A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked 5 A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years <u>FENCING</u> <u>ClearVu Invisible Wall or other approved galvanised high security fence system COATED with and including "Polymetic 6000" or other approved coating. Fence panels with bottom of fence let 100mm deep into ground, including all excavations and backfilling</u>				
1 Panel, 3300mm wide x 2400mm high	No	47		
<u>Fence and gate posts with bottom of posts cast 600mm deep into bottom of concrete bases (elsewhere measured)</u>				
2 Post, 3000mm long	No	47		
3 Gate post, 3000mm long	No	6		
<u>Gates</u>				
4 Single gate, 1200mm wide x 2400mm high, hung one side equal, including one locking devices	No	1		
5 Double gate, 4500mm wide x 2400mm high, hung in two equal sized leaves, including two locking devices	No	2		
<u>Sundries</u>				
6 Shark tooth spike topping, secured to top of fence panels, posts and gates	m	150		
7 Continuous galvanized barbed wire security roll to bottom of fence flat wrapped in 500mm diameter rings, tied together and to bottom of fence and let into ground, 600mm deep, including all excavations and backfilling	m	150		
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SECTION NO. 4

PROVISIONAL SUMS

Amount

SECTION NO. 4

PROVISIONAL SUMS

NOTE: Tenderers are referred to the definition of attendance on n/s sub-contractors given in Clause B9 of the JBCC Preliminaries

NOTE: All Provisional and Prime Cost Amounts are NET i.e: there is no cash discount

NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill

NOTES:

1. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-

*Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and quantities of the items to be hoisted,

*Schedule the times of availability of the hoisting equipment for each Sub-Contractors,

*Provide all necessary personnel to operate the hoisting equipment for each Sub-Contractor, all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. Using the facilities provided by the Contractor

Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill

The Contractor must read each description throughout this bills of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 Edition) and any supplementary Preambles to the Model Preambles

forming part of these Bills of Quantities

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades or Supplementary Preambles to Model Preambles will be granted

All provisional sums cover supply of material and equipment and installation. provisional sums are nett and do not include builder's discount (excluding settlement discount) and Value Added Tax but the Tenderer may allow under "Profit" items any profit he considers necessary

Electrical Installation

- 1 Provide the amount of R 187 200.00 (One Hundred and Eighty Seven Thousand Two Hundred Rand Only) for Eletrical Installation and wiring for air conditioning units & fans as well as for adjustment of Mechanical engineering services to be used at the discretion of the principal agent and deducted in whole or in part if not required.

Item 187.200 00

- 2 Profit

Item

- 3 Allow for general attendance

Item

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Bill No. 1

Provisional Sums

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<u>Alternative Energy Supply</u>			
4	Provide the amount of R 167 440.00 (One Hundred and Sixty Seven Thousand Four Hundred and Forty Rand Only) for provision of an alternative energy supply	Item	167.440 00
5	Profit	Item	
6	Allow for general attendance	Item	
<u>ASBESTOS ROOF REMOVAL AND DISPOSAL</u>			
<u>Asbestos Roof Removal and Disposal</u>			
7	Provide the amount of R 92 560.00 (Ninety Two Thousand Five Hundred and Sixty Rand Only) for appointment of a asbestos removal contractor, who shall remove and dispose of asbestos roofing and dispose at an approved asbestos disposal landfill	Item	92.560 00
8	Profit	Item	
9	Allow for general attendance	Item	
<u>SECURITY GUARDROOM</u>			
10	Provide the amount of R 78 000.00 (Seventy Eight Thousand Rand Only) for provision of a fibreglass wendy security guradroom	Prov Sum	
11	Add for Profit	Item	
12	Add for Attendance	Item	
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SECTION NO. 5

BUDGTARY ALLOWANCES

		Amount
<u>SECTION NO. 5</u>		
<u>BUDGTARY ALLOWANCES</u>		
<u>SUPPLEMENTARY PREAMBLES</u>		
<u>General</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		
<u>CONTINGENCY (THIS SECTION IS NOT PART ON BIDDERS DOCUMENT)</u>		
<u>Contingency</u>		
1	Allow a contingency amount of R 83 200.00 (Eighty Three Thousand Two Hundred Rand Only) to be directed by the Director of Roads and Public Works	Item 83.200 00
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