

**PROVISIONAL BILLS OF QUANTITIES**  
**FOR**  
**CONSTRUCTION OF CARNAVON COMMUNITY SQAURE**  
**FOR**  
**ROADS AND PUBLIC WORKS**

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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:

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

"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:

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries



Amount

(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

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

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.

### **A11.0 LIABILITY INSURANCES**

11 Clause 11.0

Item

Item

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

12	<p><b><u>A12.0 EFFECTING INSURANCES</u></b></p> <p>Clause 12.0</p> <p><b><u>A13.0 No clause</u></b></p> <p><b><u>A14.0 SECURITY</u></b></p> <p>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</p> <p>14.6.3 The payment reduction of value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)</p> <p>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</p> <p>14.7 Where security as payment reduction of ten per cent (10%) of the value certified in payment certificate (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(B)</p> <p>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</p> <p>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</p> <p>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</p>	Item	
13	<p>Clause 14.0</p> <p>Causes 14.1 - 14.8 are amended by replacing them with the following:</p> <p>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)</p> <p>14.1.1 The payment reduction of the value certified in the payment certificate shall be mutatis mutandi in terms of 31.8(A)</p> <p>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</p>	Item	
<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>		Carried To Section Summary	R
1-7			



Amount

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.

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

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

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

## **EXECUTION**

### **A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS**

14 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

Item

### **A16.0 ACCESS TO THE WORKS**

15 Clause 16.0

Item

### **A17.0 CONTRACT INSTRUCTIONS**

16 Clause 17.0

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

	Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors"	Item		
	<b><u>A18.0 SETTING OUT OF THE WORKS</u></b>			
17	Clause 18.0	Item		
	<b><u>A19.0 ASSIGNMENT</u></b>			
18	Clause 19.0	Item		
	<b><u>A20.0 NOMINATED SUBCONTRACTORS</u></b>			
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		
	<b><u>A21.0 SELECTED SUBCONTRACTORS</u></b>			
20	Clause 21.0 Clause 21 is amended by replacing it with: No clause	Item		
	<b><u>A22.0 EMPLOYER'S DIRECT CONTRACTORS</u></b>			
21	Clause 22.0	Item		
	<b><u>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u></b>			
22	Clause 23.0	Item		
	<b><u>COMPLETION</u></b>			
	<b><u>A24.0 PRACTICAL COMPLETION</u></b>			
23	Clause 24.0	Item		
	<b><u>A25.0 WORKS COMPLETION</u></b>			
24	Clause 25.0	Item		
	<b><u>A26.0 FINAL COMPLETION</u></b>			
25	Clause 26.0 Clause 26.1.2 is amended by inserting "#" next to 26.1.2	Item		
	<b><u>A27.0 LATENT DEFECTS LIABILITY PERIOD</u></b>			
26	Clause 27.0	Item		
	<b><u>A28.0 SECTIONAL COMPLETION</u></b>			
27	Clause 28.0	Item		
	Carried To Section Summary	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries			

Amount

	<b><u>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</u></b>	
28	<p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p>	Item
	<b><u>A30.0 PENALTY FOR NON-COMPLETION</u></b>	
29	<p>Clause 30.0</p>	Item
	<b><u>PAYMENT</u></b>	
	<b><u>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</u></b>	
30	<p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>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.</p> <p>The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>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</p> <p>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</p> <p>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.</p> <p>In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate   Alternative B</p> <p>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.</p> <p>The value certified shall be subject to the following percentage adjustments</p> <p>31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>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</p>	
	Carried To Section Summary	R
	Section No. 1	
	Bill No. 1	
	Preliminaries	
	1-11	

	<p>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</p> <p>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.</p> <p>In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p>		
	<b><u>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</u></b>		
31	<p>Clause 32.0</p> <p>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:</p> <p>"due to no fault of the contractor"</p>	Item	
	<b><u>A33.0 RECOVERY OF EXPENSE AND LOSS</u></b>		
32	<p>Clause 33.0</p>	Item	
	<b><u>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</u></b>		
33	<p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by removing "#" next to 34.2</p> <p>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"</p> <p>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"</p>	Item	
	<b><u>A35.0 PAYMENT TO OTHER PARTIES</u></b>		
34	<p>Clause 35.0</p>	Item	
	<b><u>CANCELLATION</u></b>		
	<b><u>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u></b>		
35	<p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>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</p>		
	Carried To Section Summary	R	
	Section No. 1		
	Bill No. 1		
	Preliminaries		

	<p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>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.</p> <p>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</p>	Item	
	<b><u>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u></b>		
36	<p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>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.</p> <p>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</p>	Item	
	<b><u>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u></b>		
37	<p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>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.</p> <p>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</p>	Item	
	<b><u>A39.0 CANCELLATION - CESSATION OF THE WORKS</u></b>		
38	<p>Clause 39.0</p> <p>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"</p>	Item	
	Carried To Section Summary	R	
	Section No. 1		
	Bill No. 1		
	Preliminaries		

Amount

	<p><b><u>DISPUTE</u></b></p> <p><b><u>A40.0 DISPUTE SETTLEMENT</u></b></p> <p>39 Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>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</p> <p><b><u>SUBSTITUTE PROVISIONS</u></b></p> <p><b><u>A41.0 STATE CLAUSES</u></b></p> <p>40 Clause 41.0</p> <p><b><u>CONTRACT VARIABLES</u></b></p> <p><b><u>A42.0 THE SCHEDULE (DPW-04EC)</u></b></p> <p>41 Clause 42.0</p> <p>Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract</p> <p><b><u>SECTION B: JBCC PRELIMINARIES</u></b></p> <p><b><u>B1.0 DEFINITIONS AND INTERPRETATION</u></b></p> <p>42 B1.1 Definitions and interpretation</p> <p>See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section.</p> <p><b><u>B2.0 DOCUMENTS</u></b></p> <p>43 B2.1 Checking of documents</p> <p>44 B2.2 Provisional bills of quantities</p> <p>45 B2.3 Availability of construction documentation</p> <p>46 B2.4 Interests of agents</p> <p>47 B2.5 Priced documents</p> <p>48 B2.6 Tender submission</p> <p>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"</p> <p>Carried To Section Summary</p> <p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>R</p>	<p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p>
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Amount

**B3.0 THE SITE**

49	B3.1 Defined works area	Item
50	B3.2 Geotechnical investigation	Item
51	B3.3 Inspection of the site	Item
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

**B4.0 MANAGEMENT OF CONTRACT**

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

**B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS**

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

**TEMPORARY WORKS AND PLANT**

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

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries



Amount

74	B6.6 Subcontractors' notice board	Item		
	<b><u>B7.0 TEMPORARY SERVICES</u></b>			
75	B7.1 Location	Item		
76	B7.2 Water	Item		
77	B7.3 Electricity	Item		
78	B7.4 Telecommunication facilities	Item		
79	B7.5 Ablution facilities	Item		
	<b><u>PRIME COST AMOUNTS</u></b>			
80	B8.1 Responsibility for prime cost amounts	Item		
	<b><u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u></b>			
81	B9.1 General Attendance	Item		
82	B9.2 Special Attendance	Item		
83	B9.3 Commissioning - fuel, water and electricity	Item		
	<b><u>B10.0 FINANCIAL ASPECTS</u></b>			
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		
	<b><u>B11.0 GENERAL</u></b>			
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		
	Carried To Section Summary	R		
	Section No. 1			
	Bill No. 1			
	Preliminaries			

Amount

97	B11.12 Tenant installations	Item	
	<b><u>B1.0 DEFINITIONS AND INTERPRETATION</u></b>		
	<b><u>SCHEDULE OF VARIABLES</u></b>		
	<b><u>Schedule of variables:</u></b>		
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	
	<b><u>12.1 PRE-TENDER INFORMATION</u></b>		
	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 site possession is inaccurate, the contractor is to inform the principal agent immediately		
	Carried To Section Summary	R	
	Section No. 1		
	Bill No. 1		
	Preliminaries		
	1-17		

Amount

12.1.8 Previous work - defects

[3.6] Details:

12.1.9 Services - known

[3.7] Details:

12.1.10 Protection of trees

[3.9] 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.

#### **Defined works area**

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

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

Amount

No Specific requirements: Not Applicable

12.1.16 Water [7.2]

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

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

12.1.19 Ablution facilities

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

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

99 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:

Carried To Section Summary

R

Section No. 1

Bill No. 1

Preliminaries

Amount

The above is to be taken at all external corners of the building, by means of a surveying staff.

## **12.2 POST-TENDER INFORMATION**

12.2.1 Payment of preliminaries

[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:

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-----  
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## **SECTION C: SPECIFIC PRELIMINARIES**

### **Section C: Specific Preliminaries:**

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

### **C1 CONTRACT DRAWINGS**

- 100 \* 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.

### **C2 GENERAL PREAMBLES**

- 101 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](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](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

Item

Item

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

### **C3 TRADE NAMES**

- 102 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

### **C4 IMPORTED MATERIALS AND EQUIPMENT**

- 103 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

### **C5 VIEWING THE SITE IN SECURITY AREAS**

- 104 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

### **C6 COMMENCEMENT OF WORKS IN SECURITY AREAS**

- 105 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

### **C7 ENTRANCE PERMITS TO SECURITY AREAS**

- 106 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

### **C8 SECURITY CHECK OF PERSONNEL**

#### **Details:**

- 107 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

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

108	<p><b><u>C9 PROHIBITION ON TAKING OF PHOTOGRAPHS</u></b></p> <p>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</p> <p>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</p>	Item	
109	<p><b><u>C10 HIV/AIDS AWARENESS</u></b></p> <p>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.</p> <p>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</p> <p>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.</p> <p>The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>	Item	
110	<p><b><u>C10.1 AWARENESS CHAMPION</u></b></p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p> <p><b><u>C10.2 AWARENESS WORKSHOPS</u></b></p> <p>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</p>	Item	
111	<p><b><u>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</u></b></p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>	Item	
<p>Section No. 1 Bill No. 1 Preliminaries</p>		R	
Carried To Section Summary			

Amount

#### **C10.4 ACCESS TO CONDOMS**

- 112 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

#### **C10.5 MONITORING**

- 113 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

#### **C11 OCCUPATIONAL HEALTH AND SAFETY ACT**

- 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.

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

- 115 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.

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries



Amount

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. Refer to the attached specification at the back of these bills of quantities

### **EPWP**

#### **Expanded Public works programme:**

- 116 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.

- 117 EPWP fortnightly 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.

### **CARTING OF WATER FOR CONSTRUCTION**

#### **Carting of water on site**

- 118 The contractor is to make provision to cart water onto site as there maybe no sufficient water available on site.

### **PORTFOLIO OF EVIDENCE**

#### **GPS Tagged photos:**

- 119 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.

#### **Proof of Depths of foundation excavations:**

- 120 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

Carried To Section Summary

Section No. 1  
Bill No. 1  
Preliminaries

R

Amount

Note:

The above is to be taken at all external corners of the building, by means of a surveying staff.

**ELECTRICAL INSTALLATION & OTHER SUBCONTRACTOR'S PRELIMINARIES**

121 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.

122 Fixed, Value and time related items

Item

Item

Item

Carried To Section Summary

R

Section No. 1  
Bill No. 1  
Preliminaries

Amount

**SECTION NO. 1**

**PRELIMINARIES AND GENERAL**

**SECTION SUMMARY**

Page

Brought forward from page	1-2
Brought forward from page	1-3
Brought forward from page	1-4
Brought forward from page	1-5
Brought forward from page	1-6
Brought forward from page	1-7
Brought forward from page	1-8
Brought forward from page	1-9
Brought forward from page	1-10
Brought forward from page	1-11
Brought forward from page	1-12
Brought forward from page	1-13
Brought forward from page	1-14
Brought forward from page	1-15
Brought forward from page	1-16
Brought forward from page	1-17
Brought forward from page	1-18
Brought forward from page	1-19
Brought forward from page	1-20
Brought forward from page	1-21
Brought forward from page	1-22
Brought forward from page	1-23
Brought forward from page	1-24
Brought forward from page	1-25

Carried to Next

R

Section No. 1  
SECTION SUMMARY

Amount

Brought from Previous

R

## **SECTION NO. 2**

## **BUILDING WORKS**

	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 1</u></b> <b><u>EARTHWORKS</u></b>  <b><u>NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors.</u></b> <b><u>SUPPLEMENTARY PREAMBLES</u></b> <b><u>Nature of ground</u></b> 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" <b><u>Subterranean water</u></b> No subterranean water is expected <b><u>Excavation for working space in rock</u></b> 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 <b><u>Carting away of excavated material</u></b> Description 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 <b><u>Filling</u></b> 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 <b><u>Site clearance</u></b> 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth				
	m <sup>2</sup>	297		
Carried to Collection			R	
Section No. 2				
Bill No. 1				
Earthworks				



Amount

**BILL NO. 1**  
**EARTHWORKS**  
**COLLECTION**

Page No

Brought Forward from Page

2-2

2-3

Carried To Section Summary

R

Section No. 2  
Bill No. 1  
Earthworks

Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BUILDING WORKS**

**BILL NO. 2**

**CONCRETE, FORMWORK AND REINFORCEMENT**

NOTE: The use of trade names simply serves to inductate a standard acceptable to the Principal Agent  
NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

**SUPPLEMENTARY PREAMBLES**

**Cost of tests**

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200G shall include the cost of providing cube mould necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)

**Formwork**

Description 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 reuse.

The vertical struttings 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 etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise

Carried to Collection

R

Section No. 2

Bill No. 2

Concrete, Formwork And Reinforcement









Department  
Roads and Public Works  
NORTHERN CAPE PROVINCE  
REPUBLIC OF SOUTH AFRICA

Unit	Quantity	Rate	Amount
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### Mild steel reinforcement to structural concrete work

16	10mm Diameter bars	Tonnes	6.24
17	12mm Diameter bars	Tonnes	1.82

**Fabric reinforcement with minimum 400mm wide overlaps**

18	Tpye Ref 245 reinforcement in concrete surface beds etc	m²	491
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## R

Bill No. 2

2-8

Amount

**BILL NO. 2**

**CONCRETE, FORMWORK AND REINFORCEMENT**

**COLLECTION**

Page No

Brought Forward from Page

2-5

2-6

2-7

2-8

Carried To Section Summary

R

Section No. 2

Bill No. 2

Concrete, Formwork And Reinforcement

Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BUILDING WORKS**

**BILL NO. 3**

**MASONRY**

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

**SUPPLEMENTARY PREAMBLES**

**BRICKWORK**

**Sizes in descriptions**

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

**Hollow walls**

Descriptions of hollow walls shall be deemed to include leaving every fifth perpendicular of the bottom course of the external skin open as a weep hole

**User note**

The following preamble generally applies for works in hot and humid coastal areas

**Bagged and sealed walls**

Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating

**Face bricks**

**Pointing**

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

Carried to Collection

R

Section No. 2

Bill No. 3

Masonry

[illegible]

Amount

**BILL NO. 3**  
**MASONRY**  
**COLLECTION**

Page No

Brought Forward from Page

2-10

2-11

Carried To Section Summary

R

Section No. 2  
Bill No. 3  
Masonry



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 4</u></b> <b><u>WATERPROOFING</u></b>				
NOTE: The use of trade names simply serves to indicate a standard acceptable of 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				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Waterproofing</u></b>				
Waterproofing of roofs,basements,etc shall be laid under ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges,hips and valleys. Descriptions of sheet on membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u></b>				
1	In walls	m <sup>2</sup>	111	
<b><u>One layer 375 micron orange polyethylene waterproof sheeting (SANS 952-1985 type A) sealed at laps with PVC self-adhesive tape</u></b>				
2	Under surface beds	m <sup>2</sup>	354	
Carried To Section Summary			R	
Section No. 2				
Bill No. 4				
Waterproofing				



	Unit	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b> <b><u>BUILDING WORKS</u></b> <b><u>BILL NO. 5</u></b> <b><u>ROOF COVERINGS</u></b>				
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 Preamble for Trades 2008 published by the Association of South African Quantity Surveyors				
<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b> <b><u>0.58mm Thick Klip-Tite galvanised steel roof sheeting profile Chromadek Ultim Z275 spelter complying with ISQ550 or equal and approved and accessories, 700mm cover and fixed to all steel or timber purlins with KL700 plus clips and class3 fasteners, all fixed in strict accordance with manufacturer's instructions</u></b>				
1	Sheeting laid to roof not exceeding 10 degrees in single lengths (measured nett)	m <sup>2</sup>	297	
2	Side cladding	m <sup>2</sup>	129	
3	Circular cutting	m	89	
<b><u>0.58mm Thick Chromadek Ultim Z275 spelter complying with ISQ550 galvanised steel or equal and approved flashings, etc. complete with metal and polyclosers fixed in strict accordance to manufacturer's in specifications</u></b>				
4	260mm Girth fascia fixed to steel purlins	m	89	
5	180mm Girth fascia flashing bend to shape to suit roof covering	m	89	
6	180mm Girth drip flashing bend to shape to suit roof covering	m	11	
Carried To Section Summary			R	
Section No. 2 Bill No. 5 Roof Coverings				

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BUILDING WORKS</u></b></p> <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p>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</p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the association of South African Quantity Surveyors</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Fixing</u></b></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugged at not exceeding 500mm centres, and where described as "bolted", the bolts have been given else</p> <p><b><u>Joinery</u></b></p> <p>Descriptions of frames shall be deemed to include frames, transoms, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts</p> <p><b><u>Decorative thermosetting plastic laminate covering</u></b></p> <p>Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>DOORS ETC</u></b></p> <p><b><u>40mm Thick solid heavy duty door concealed edge strips with solid core and finished with hardwood laminated on both sides and hung on steel frames (frames elsewhere)</u></b></p>				
1	No	6		
Carried to Collection				R
Section No. 2				
Bill No. 6				
Carpentry And Joinery				

		Unit	Quantity	Rate	Amount
<u>40mm Semi-solid flush doors with 3,2mm plain hardboard covering on both sides and two concealed edges, hung to steel frames</u>					
2	40mm Door 965 x 2032mm high (Type1)	No	1		
Carried to Collection					R
Section No. 2					
Bill No. 6					
Carpentry And Joinery					

Amount

**BILL NO. 6**

**CARPENTRY AND JOINERY**

**COLLECTION**

Page No

Brought Forward from Page

2-15

2-16

Carried To Section Summary

R

Section No. 2

Bill No. 6

Carpentry And Joinery

2-17

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BUILDING WORKS</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>STRUCTURAL STEELWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>All structural steelwork shall be fabricated and erected in accordance with SABS 1200H.</p> <p>All dimensions shall be checked on site before shop drawings commence, any discrepancies shall be brought to the attention of the Engineer.</p> <p>A complete set of shop drawing shall be submitted to the Engineer for approval before fabrication commences. The contractor shall allow 2 weeks for checking and approval by the Engineer and shall also allow for any possible changes to shop drawings.</p> <p>The contractor shall design all welds and, where necessary, gussets of sufficient strength shall be provided to obtain the required weld lengths.</p> <p>Setting-out points (S.O.P'S) at member centroids shall conform to those shown on general arrangement drawings. No eccentricities, except those shown on the Engineer's drawings, shall be allowed.</p> <p>All structural steelwork shall be grade S355JR, except cold formed hollow sections which shall be commercial grade.</p> <p>A certificate from the steel manufacturer in which the grade or the structural steel is verified shall be handed to the Engineer for approval.</p> <p>All structural bolts shall be grade 4.8 unless otherwise noted.</p> <p>The proposed method and sequence of erection of the structure shall be submitted to the Engineer for written approval. Such submission is to take place</p>				
Carried to Collection				R
Section No. 2				
Bill No. 7				
Structural Steelwork				

	Unit	Quantity	Rate	Amount
<p>at time of shop drawing submittal. The contractor shall indicate the proposed method of propping to ensure stability of the structure during erection. Such stability during erection remains the contractor's responsibility. Where temporary bracing or propping is necessary, the contractor shall be responsible for the design, erection, maintenance and removal (where necessary) of such supports. Proposal of such bracing or propping shall be submitted to the Engineer at an early stage for written approval.</p> <p>System No 012 from SABS 0120 : Part 3 Section HC 1988 shall be used for the corrosion protection of structural steel, and is as follows:</p> <p>A. Removal all slag from welded joints to expose the steelwork.</p> <p>B. Preparation of steelwork shall be executed in dry conditions in the workshop and consist of mechanical wire brush to standard SIS 05 59 00 St 2.</p> <p>C. First coat (30µm minimum): Zinc phosphate this later shall be applied within 4 hours preparation.</p> <p>D. Second coat (30µm minimum): Alkyd enamel</p> <p>E. All paint shall be applied strictly in accordance with SABS 1200 HC-1988 and the manufacturer's instructions.</p> <p>F. Repair of damaged paint and painting of site connection and connectors shall be in accordance with SABS 1200 HC and SABS 0120 : Part 3 Section HC.</p> <p>G. The standard of preparation of the steelwork and the thicknesses of the different coats of paint shall be verified according to SABS 1200 HC Clause 7</p> <p>H. External steel to be hot dip galvanised to SANS/ISO 1461</p>				
Carried to Collection				
Section No. 2				
Bill No. 7				
Structural Steelwork				

R

	Unit	Quantity	Rate	Amount
<p>Where applicable, grout shall be provided under base plated before any primary loads are applied to the structure.</p> <p>System No 150 from SABS 0120 : Part 3 section HC 1988 shall be used for the corrosion protection of the structural steel and is as follows:</p> <p>A. Preparation of steelwork and application of coats in accordance with SABS1461/SANS 121</p> <p>B. Hot dip galvanise to min 100 µm</p> <p>The Galvaniser must be a member of the hot dip Galvanisers Association of southern Africa and the Galvanizer to be informed if the product will be painted.</p> <p><b><u>GALVANISED STEEL COLUMNS AND BEAMS</u></b></p> <p><b><u>Columns</u></b></p> <p>1 160x 82mm x 12.3kg/m I-section welded columns in single lengths not exceeding 13m long with flat-section base and top plates and L-section connection plates, including holes and bolting to concrete base at bottom</p> <p><b><u>STEEL TRUSSES</u></b></p> <p><b><u>The following in 9 trusses overall size 3636mm long x 1576mm high</u></b></p> <p><b><u>Welded trusses including, gusset and connection plates and L-section cleats bolted to concrete</u></b></p> <p>2 Welded galvanised steel roof bowstring trusses 3636mm x 1560mm high in overall, formed on L-sections and flats, including holes and bolting to steel beams (In No 9)</p> <p><b><u>STEEL PURLINS, GIRTS, BRACING, ETC</u></b></p> <p><b><u>Purlins and girts, bolted to steel</u></b></p> <p>3 150 x 50 x 20mm Cold formed lipped channel purlins in single lengths not exceeding 13m long, including holes and bolting to cleats</p> <p>4 100 x 50 x 5mm thick Cold formed rectangular tube purlins in single lengths not exceeding 13m long, including holes and bolting to cleats</p>				
	Tonnes	5.43		
	Tonnes	1.69		
	Tonnes	1.00		
	Tonnes	1.65		
Carried to Collection			R	
Section No. 2				
Bill No. 7				
Structural Steelwork				



	Unit	Quantity	Rate	Amount
<b><u>Welded bracing, anti-sag rails, etc with flat connection plates, bolted to steel</u></b>				
5	150 x 50 x 20mm Cold formed lipped channel vertical bracing in single lengths not exceeding 13m long, including holes and bolting to cleats	Tonnes	1.00	
6	100 x 50 x 5mm thick Cold formed rectangular tube vertical bracing in single lengths not exceeding 13m long, including holes and bolting to cleats	Tonnes	1.65	
<b><u>BOLTS, FASTENERS, ETC</u></b>				
<b><u>Anchor Bolts</u></b>				
7	20mm Diameter x 300mm girth L-shaped galvanised mild steel anchor bolts embedded in exact position in top of concrete	No	148	
Carried to Collection				R
Section No. 2				
Bill No. 7				
Structural Steelwork				

2-21



Amount

**BILL NO. 7**  
**STRUCTURAL STEELWORK**  
**COLLECTION**

Page No

Brought Forward from Page

2-18

2-19

2-20

2-21

Carried To Section Summary

R

Section No. 2  
Bill No. 7  
Structural Steelwork

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BUILDING WORKS</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>METALWORK</u></b></p> <p>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</p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and boltsshall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as 'plugged shall be deemed to include screwing to fibre, plastic or metal pins as not exceeding 600mm centres</p> <p><b><u>Aluminium doors, windows, etc</u></b></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>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 SAGGS regulations irrespective of thickness shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic shall be removed only when surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings</p>				
Carried to Collection				R
Section No. 2				
Bill No. 8				
Metalwork				



	Unit	Quantity	Rate	Amount
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 2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively 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 NOTE: All tenderers are referred to architect's drawings and details based on these bills of quantities for tender purposes				
Carried to Collection			R	
Section No. 2 Bill No. 8 Metalwork				

2-24

	Unit	Quantity	Rate	Amount
<b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b>				
<b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b>				
<b><u>Powder coated casement window units as per ? system, complete with sub frames, ironmongery, glass, sealing, etc and fixing to brickwork or concrete</u></b>				
<b><u>Minimum 6mm NS PVB Laminated Safety Glass (SANS1263-1), for all panels of window, shopfronts and doors. Glazing type obscure/clear/one way. Obscured glazing to be Type Pacific or equally and approved.</u></b>				
1 Standard window type 600 x 600mm high including clear float glass	No	7		
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>1,2mm Double rebated frames suitable for one brick walls</u></b>				
2 Frame for door 813 x 2032mm high	No	7		
3 Frame for door 965 x 2032mm high	No	1		
Carried to Collection				R
Section No. 2				
Bill No. 8				
Metalwork				

Amount

**BILL NO. 8**  
**METALWORK**  
**COLLECTION**

Page No

Brought Forward from Page

2-23

2-24

2-25

Carried To Section Summary

R

Section No. 2  
Bill No. 8  
Metalwork

Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BUILDING WORKS**

**BILL NO. 9**

**PLASTERING**

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NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors

**SUPPLEMENTARY PREAMBLES**

**GRANOLITHIC**

**Method**

The method to be used shall be either the monolithic method or the bonded method

**Preparation**

For granolithic applied monolithically the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to set; any remaining bleeding water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic

**Mix**

Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregates shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where thickness of granolithic exceeds 25mm, the size of the granolithic shall be increased to the maximum size compatible with the thickness of the granolithic

Carried to Collection

R

Section No. 2

Bill No. 9

Plastering



	Unit	Quantity	Rate	Amount
<p><b><u>Panels</u></b></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><b><u>Laying</u></b></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><b><u>Curing,seasoning and protection</u></b></p> <p>Granolithic shall be covered with clean hessian with waterproofing building foil over and kept wet for atleast seven days after laying</p> <p><b><u>Colour</u></b></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mix into a true and even colour</p>				
Carried to Collection			R	
Section No. 2				
Bill No. 9				
Plastering				

2-28



	Unit	Quantity	Rate	Amount
<b><u>INTERNAL PLASTER</u></b>				
<b><u>Cement plaster steel trowelled, on brickwork</u></b>				
1 On walls	m <sup>2</sup>	285		
Carried to Collection			<b>R</b>	
Section No. 2 Bill No. 9 Plastering				

2-29



Amount

**BILL NO. 9**  
**PLASTERING**  
**COLLECTION**

Page No

Brought Forward from Page

2-27

2-28

2-29

Carried To Section Summary

R

Section No. 2  
Bill No. 9  
Plastering

	Unit	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BUILDING WORKS</u></b></p> <p><b><u>BILL NO. 10</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p>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</p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Copper pipes:</u></b></p> <p>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</p> <p><b><u>Lead pipes and traps</u></b></p> <p>All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel</p> <p><b><u>Reducing fittings</u></b></p> <p>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</p> <p><b><u>Wire gratings</u></b></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><b><u>Septic tanks</u></b></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p>				
Carried to Collection			R	
<p>Section No. 2</p> <p>Bill No. 10</p> <p>Plumbing And Drainage</p>				

	Unit	Quantity	Rate	Amount
<p><b><u>Exposed concrete surfaces</u></b></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</p> <p><b><u>Excavations</u></b></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling</p> <p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'</p> <p><b><u>Laying, backfilling, bedding, etc. of pipes</u></b></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:</p> <p>SABS/SANS 1200 L : Medium-pressure pipelines</p> <p>LD : Sewers</p> <p>LE : Stormwater drainage</p> <p>Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS/SANS 1200</p> <p>DB : Earthworks (Pipe trenches)</p> <p>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</p> <p>LB : Bedding (Pipes).</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><b><u>Flush pans</u></b></p> <p>Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary</p> <p><b><u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u></b></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p>				
Carried to Collection			R	
Section No. 2				
Bill No. 10				
Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
<b><u>RAINWATER DISPOSAL</u></b>					
<b><u>0,9mm Aluminium seamless gutters and rainwater pipes, with cut and mitred angles covered with a mitre strip externally, stop ends riverted and all sealed with 'Dow Corning 813' or other approved silicone sealer, finished with powder coated finish on outside (colour by architect), fixed to fascia with 20 x 3mm dual-purpose brackets at 600mm centres using aluminium peeled riverts</u></b>					
1	150 x 140 x 150mm VHV roof gutters	m	95		
2	Extra over 150 x 140 x 150mm VHV roof gutters for outlet for 100 x 75mm rainwater pipes	No	4		
3	Extra over 150 x 140 x 150mm VHV roof gutters for bend	No	6		
<b><u>0,9mm Aluminium seamless rainwater pipes, finished with powder coated finish on outside (colour by architect), fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riverted and silicone sealed to gutter outlets</u></b>					
4	100 x 75mm Rainwater pipes	m	12		
5	Extra over 100 x 75mm Rainwater pipe for Shoe	No	4		
6	Extra over 150 x 140 x 150mm VHV roof gutters for Bend	No	4		
7	Extra over 100 x 75mm Rainwater pipe for 600mm eaves swanneck	No	4		
<b><u>SANITARY FITTINGS</u></b>					
<b><u>'Duravit' or other approved</u></b>					
8	'Duravit' Duraplus or other approved wash hand basin (colour: white) (product code: 316036) size 550 x 440mm, with one tapholes including integrated overflow and chainstay hole, bolted to wall with two stainless steel 10mm bolts.	No	7		
<b><u>'Geberit Seats' or other approved</u></b>					
9	Toilet seat (code: 006420 000)	No	7		
<b><u>'Geberit Actuators' or other approved</u></b>					
10	Delta 40 flush with flush/stop actuator (article no. 115.130.21.1) in chomium plated 'shiny' finish	No	7		
Carried to Collection				R	
Section No. 2					
Bill No. 10					
Plumbing And Drainage					



		Unit	Quantity	Rate	Amount
	'Geberit Cisterns' or other approved				
11	'Geberit' or other approved concealed cistern for wall hung water closet (article no. 110.150.00.1)	No	7		
	SANITARY PLUMBING				
	uPVC pipes:				
12	40mm Pipes.	m	3		
13	110mm Pipes.	m	15.00		
14	50mm Pipes chased into brick walls.	m	15		
	Extra over uPVC pipes for fittings:				
15	110mm End cap.	No	2		
16	110 x 50mm BSP adaptor.	No	3		
17	110mm Bend.	No	2		
18	40mm Junction.	No	6		
19	50mm Access bend.	No	3		
20	40mm Access bend.	No	3		
21	50mm 'GI Two-way' vent valve.	No	2		
	WASTE UNIONS ETC				
	Cobra Watertech				
22	40mm 316 CP bath or sink waste union	No	7		
	Hansgrohe' or other approved				
23	Chrome plated anti-theft basin waste kit (code: 50101)	No	7		
	TAPS, VALVES, ETC				
	Brass:				
24	15mm Stopcock.	No	2		
25	22mm Stopcock.	No	2		
	Cobra Watertech				
26	Carina 15mm one tap hole sink mixer with overarm swivel outlet, mounting kit and angle valves code (296CA and S-041/10)	No	7		
27	15mm ball type angle valve with 350mm flexible hose connector code (832/350F).	No	2		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 10				
	Plumbing And Drainage				

		Unit	Quantity	Rate	Amount
	<b><u>'Hansgrohe' or other approved</u></b>				
28	Chromium plated 'Schell' angle valve size 10 x 15mm with compression unit nut (code: HG90610800)	No	2		
29	Single lever 'Tallis' care disable basin mixer (code: HG32035000)	No	1		
	<b><u>TRAPS ETC</u></b>				
	<b><u>Rubber</u></b>				
30	40mm P trap	No	7		
	<b><u>'Hansgrohe' or other approved</u></b>				
31	Chrome plated cup shaped bottle trap model G 1 1/4'(code: HG52053000)	No	2		
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Class 1 copper pipes:</u></b>				
32	15mm Pipes.	m	14		
33	15mm Pipes chased into brick walls.	m	2		
	<b><u>Class 1 copper pipes</u></b>				
34	15mm Pipes chased into brick walls.	m	2		
	<b><u>Extra over class 1 copper pipes for 'Cobra Watertech Copcal' capillary fittings:</u></b>				
35	15mm Fittings.	No	9		
36	22mm Elbow.	No	28		
37	15mm Elbow.	No	28		
	<b><u>Extra over class 1 copper pipes for brass compression fittings:</u></b>				
38	22mm Fittings.	No	11		
	<b><u>LAGGING</u></b>				
	<b><u>'Fibreglass Snap-on' plain sections:</u></b>				
39	Insulation 15mm thick to 15mm pipes and couplings.	m	9		
	<b><u>ELECTRIC WATER HEATERS</u></b>				
	<b><u>Kwikot</u></b>				
40	Kwikot stainless steel 150litre electric water heater, with two way tap control, connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee.	No	1		
	Carried to Collection				
	Section No. 2				
	Bill No. 10				
	Plumbing And Drainage				
	2-35				

R

[illegible]

Amount

**BILL NO. 10**

**PLUMBING AND DRAINAGE**

**COLLECTION**

Page No

Brought Forward from Page

2-31

2-32

2-33

2-34

2-35

2-36

Carried To Section Summary

R

Section No. 2

Bill No. 10

Plumbing And Drainage



Amount

<b><u>SECTION NO. 2</u></b>		
<b><u>BUILDING WORKS</u></b>		
<b><u>SECTION SUMMARY</u></b>		
Bill No.		Page
1	EARTHWORKS	2-4
2	CONCRETE, FORMWORK AND REINFORCEMENT	2-9
3	MASONRY	2-12
4	WATERPROOFING	2-13
5	ROOF COVERINGS	2-14
6	CARPENTRY AND JOINERY	2-17
7	STRUCTURAL STEELWORK	2-22
8	METALWORK	2-26
9	PLASTERING	2-30
10	PLUMBING AND DRAINAGE	2-37
</		

## **SECTION NO. 3**

## **PROVISIONAL SUMS**

Amount

### **SECTION NO. 3**

### **PROVISIONAL SUMS**

### **SUPPLEMENTARY PREAMBLES**

#### **General**

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

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

#### **Profit**

Where stated, the contractor may allow for profit if required

#### **General attendance on nominated/selected subcontractors**

The item 'Attendance' which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:

1 The services as set out in clause B9.1 of the Preliminaries 2 Making good in all trades and cleaning down and removal of rubbish on completion

#### **Special attendance on nominated/selected subcontractors**

Where stated special attendance will be described in detail in the Schedule for Variables in the Preliminaries for the services as set out in clause B9.2

### **PREAMBLE**

#### **Note:**

Three quotations must be obtained and must be sent to the Project Leader for approval.

### **PROVISIONAL SUMS**

The following nominated/selected sub-contract amounts are for work to be carried out by nominated/selected sub-contractors in terms of Clause 20 of the Principal Building Agreement.

### **ELECTRICAL INSTALLATION**

- 1 Provide the sum of R 250 000 ( Two hundred and fifty thousand rand ZAR) for the supply and installation of the Electrical Installations executed complete.1
- 2 Allow for profit
- 3 Allow for attendance

Item 250 000 00

Item

Item

Carried to Final Summary

R

Section No. 3

Bill No. 1

Provisional Sums

## **SECTION NO. 4**

# **BUDGETARY ALLOWANCE**

Amount

**SECTION NO. 4**

**BUDGETARY ALLOWANCE**

**CONTINGENCIES**

- 1 Allow the Amount of R 150 000 (One hundred and fifty thousand rand ZAR) for contingencies, to be used by the Architect i

Item

150 000 00

Carried to Final Summary

R

Section No. 4

Bill No. 1

Provisional Sums



## INDEX TO BILLS OF QUANTITIES

<u>Bill No</u>	<u>Page No</u>
<b>SECTION NO. 1: PRELIMINARIES AND GENERAL</b> .....	1-1
Meaning Of Terms 'Tender / Tenderer' .....	1-2
Preliminaries .....	1-2
Pricing Of Preliminaries .....	1-2
Section A: Jbcc Principal Building Agreement .....	1-2
A1.0 Definitions And Interpretation .....	1-2
Objective And Preparation .....	1-3
A2.0 Offer, Acceptance And Performance .....	1-3
A3.0 Documents .....	1-3
A4.0 Design Responsibility .....	1-4
A5.0 Employer's Agents .....	1-4
A6.0 Site Representative .....	1-4
A7.0 Compliance With Regulations .....	1-4
A8.0 Works Risk .....	1-4
A9.0 Indemnities .....	1-4
A10.0 Works Insurances .....	1-4
A11.0 Liability Insurances .....	1-6
A12.0 Effecting Insurances .....	1-7
A13.0 No Clause .....	1-7
A14.0 Security .....	1-7
Execution .....	1-9
A15.0 Preparation For And Execution Of The Works .....	1-9
A16.0 Access To The Works .....	1-9
A17.0 Contract Instructions .....	1-9

A18.0 Setting Out Of The Works . . . . .	1-10
A19.0 Assignment . . . . .	1-10
A20.0 Nominated Subcontractors . . . . .	1-10
A21.0 Selected Subcontractors. . . . .	1-10
A22.0 Employer's Direct Contractors. . . . .	1-10
A23.0 Contractor's Domestic Subcontractors. . . . .	1-10
Completion . . . . .	1-10
A24.0 Practical Completion . . . . .	1-10
A25.0 Works Completion . . . . .	1-10
A26.0 Final Completion . . . . .	1-10
A27.0 Latent Defects Liability Period. . . . .	1-10
A28.0 Sectional Completion . . . . .	1-10
A29.0 Revision Of Date For Practical Completion. . . . .	1-11
A30.0 Penalty For Non-completion . . . . .	1-11
Payment . . . . .	1-11
A31.0 Interim Payment To The Contractor. . . . .	1-11
A32.0 Adjustment To The Contract Value . . . . .	1-12
A33.0 Recovery Of Expense And Loss . . . . .	1-12
A34.0 Final Account And Final Payment . . . . .	1-12
A35.0 Payment To Other Parties. . . . .	1-12
Cancellation . . . . .	1-12
A36.0 Cancellation By Employer - Contractor's Default. . . . .	1-12
A37.0 Cancellation By Employer - Loss And Damage. . . . .	1-13
A38.0 Cancellation By Contractor - Employer's Default. . . . .	1-13
A39.0 Cancellation - Cessation Of The Works. . . . .	1-13
Dispute . . . . .	1-14



A40.0 Dispute Settlement. . . . .	1-14
Substitute Provisions . . . . .	1-14
A41.0 State Clauses . . . . .	1-14
Contract Variables. . . . .	1-14
A42.0 The Schedule (Dpw-04ec) . . . . .	1-14
Section B: Jbcc Preliminaries. . . . .	1-14
B1.0 Definitions And Interpretation . . . . .	1-14
B2.0 Documents . . . . .	1-14
B3.0 The Site . . . . .	1-15
B4.0 Management Of Contract. . . . .	1-15
B5.0 Samples, Shop Drawings And Manufacturers' Instructions . . . . .	1-15
Temporary Works And Plant . . . . .	1-15
B7.0 Temporary Services. . . . .	1-16
Prime Cost Amounts . . . . .	1-16
B9.0 Attendance On N/s Subcontractors. . . . .	1-16
B10.0 Financial Aspects. . . . .	1-16
B11.0 General. . . . .	1-16
B1.0 Definitions And Interpretation . . . . .	1-17
Schedule Of Variables. . . . .	1-17
12.1 Pre-tender Information . . . . .	1-17
12.2 Post-tender Information . . . . .	1-20
Section C: Specific Preliminaries . . . . .	1-20
C1 Contract Drawings . . . . .	1-20
C2 General Preambles . . . . .	1-20
C3 Trade Names. . . . .	1-21
C4 Imported Materials And Equipment . . . . .	1-21

C5 Viewing The Site In Security Areas . . . . .	1-21
C6 Commencement Of Works In Security Areas . . . . .	1-21
C7 Entrance Permits To Security Areas . . . . .	1-21
C8 Security Check Of Personnel . . . . .	1-21
C9 Prohibition On Taking Of Photographs . . . . .	1-22
C10 Hiv/aids Awareness . . . . .	1-22
C10.1 Awareness Champion . . . . .	1-22
C10.2 Awareness Workshops . . . . .	1-22
C10.3 Posters, Booklets, Videos, Etc. . . . .	1-22
C10.4 Access To Condoms . . . . .	1-23
C10.5 Monitoring . . . . .	1-23
C11 Occupational Health And Safety Act . . . . .	1-23
Epwp . . . . .	1-24
Carting Of Water For Construction . . . . .	1-24
Portfolio Of Evidence . . . . .	1-24
Electrical Installation & Other Subcontractor's Preliminaries . . . . .	1-25
<b>SECTION SUMMARY . . . . .</b>	<b>1-26</b>
<b>SECTION NO. 2: BUILDING WORKS . . . . .</b>	<b>2-1</b>
<b>1 EARTHWORKS . . . . .</b>	<b>2-2</b>
Note: Tenderers Are Advised To Study The Model Preambles For Trades 2008 Published By The Association Of South African Quantity Surveyors. . . . .	2-2
Supplementary Preambles . . . . .	2-2
Excavation, Filling, Etc ? Other Than Bulk . . . . .	2-3
Filling, Etc . . . . .	2-3
Weed Killers, Insecticides, Etc . . . . .	2-3
Site Clearance . . . . .	2-3

<b>2 CONCRETE, FORMWORK AND REINFORCEMENT</b>	2-5
Supplementary Preambles	2-5
Unreinforced Concrete Cast Against Excavated Surfaces	2-6
Concrete Sundries	2-6
Reinforced Concrete Cast Against Excavated Surfaces	2-7
Test Cubes	2-7
Reinforcement (Provisional) (Cpap Work Group No. 114)	2-8
<b>3 MASONRY</b>	2-10
Supplementary Preambles	2-10
Brickwork	2-10
Brickwork In Foundations (Provisional)	2-11
Brickwork In Superstructure	2-11
Face Brickwork	2-11
<b>4 WATERPROOFING</b>	2-13
Supplementary Preambles	2-13
Dampproofing Of Walls And Floors	2-13
<b>5 ROOF COVERINGS</b>	2-14
Profiled Metal Sheetting And Accessories	2-14
<b>6 CARPENTRY AND JOINERY</b>	2-15
Supplementary Preambles	2-15
Doors Etc	2-15
<b>7 STRUCTURAL STEELWORK</b>	2-18
Supplementary Preambles	2-18
Galvanised Steel Columns And Beams	2-20
Steel Trusses	2-20
Steel Purlins, Girts, Bracing, Etc	2-20

Bolts, Fasteners, Etc . . . . .	2-21
<b>8 METALWORK . . . . .</b>	<b>2-23</b>
Supplementary Preambles . . . . .	2-23
Aluminium Windows, Doors, Etc. . . . .	2-25
Aluminium Windows, Doors, Etc. . . . .	2-25
Pressed Steel Door Frames . . . . .	2-25
<b>9 PLASTERING . . . . .</b>	<b>2-27</b>
Supplementary Preambles . . . . .	2-27
Granolithic . . . . .	2-27
Internal Plaster . . . . .	2-29
<b>10 PLUMBING AND DRAINAGE . . . . .</b>	<b>2-31</b>
Supplementary Preambles . . . . .	2-31
Rainwater Disposal . . . . .	2-33
Sanitary Fittings . . . . .	2-33
Sanitary Plumbing . . . . .	2-34
Waste Unions Etc . . . . .	2-34
Taps, Valves, Etc. . . . .	2-34
Traps Etc . . . . .	2-35
Water Supplies . . . . .	2-35
Lagging . . . . .	2-35
Electric Water Heaters . . . . .	2-35
Fire Appliances Etc . . . . .	2-36
<b>SECTION SUMMARY . . . . .</b>	<b>2-38</b>
<b>SECTION NO. 3: PROVISIONAL SUMS . . . . .</b>	<b>3-1</b>
Supplementary Preambles . . . . .	3-2
Preamble . . . . .	3-2

Provisional Sums .....	3-2
<b>SECTION SUMMARY .....</b>	<b>3-3</b>
<b>SECTION NO. 4: BUDGETARY ALLOWANCE .....</b>	<b>4-1</b>
Contingencies .....	4-2
<b>SECTION SUMMARY .....</b>	<b>4-3</b>