

vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time

vii) 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 "Bis" or "Bidder"

All prices/rates to be net, excluding Value Added Tax

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

1 Definitions and interpretation (clause 1)

Clause 1.1 Definition of "Commencement Date" is added:

"Commencement date" means the date of issue of the letter of Acceptance or any such other date as may in the Letter of Acceptance, which ever is the later, provided always that any such other date so specified shall not be more than seven (07) days after the date of the Letter of Appointment.

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

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on the commencement date and ending on the date of practical completion

Clause 1.1 Definition of "Corrupt Practice" is added:

"Corrupt Practice" means the offering , giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution

Clause 1.1 Definition of "Fraudulent Practice" is added:

"Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderer s (prior to and 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 in terms of the legislation of the Republic of South Africa, and in particular:

(a) in respect of interest owed by the employer, the interest rate as determined by the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and

(b) in respect of interest owed to the employer, the interest rate as determined by the Management Act, 1999 (Act No. 1 of 1999), will apply

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

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<p>Clause 1.6 Definition of "Notice given" is amended by replacing it with the following:</p>				
<p>1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been given when:</p>				
<p>Fixed</p>	<p>Item</p>			
<p>Value Related</p>	<p>Item</p>			
<p>Time Related</p>	<p>Item</p>			
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<u>Objective and Preparation (A2 - A14)</u>				
2	Offer, acceptance and performance (clause 2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
3	Documents (clause 3)			
	Clause 3.2.1 is amended by replacing "14.1" with "14.0"			
	Clause 3.7 is amended by the addition of the following:			
	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site , to which the employer, principal agent and agents shall have access at all times.			
	Clause 3.10 is amended by replacing the second reference to " principal agent " with the word " employer "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
4	Design responsibility (clause 4)			
	Clause 4 is amended as follows:			
	4.3 No Clause			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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5	Employer's agents (clause 5)			
	Clause 5 " Employer's agents " is amended as follows:			
	5.1.2 under clause 41 - include reference to 32.6.3; 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents.			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
6	Contractor's site representative (clause 6)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
7	Compliance with laws and regulations (clause 7)			
	Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
8	Works risk (clause 8)			
	Fixed		Item	
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	Value Related	Item	
	Time Related	Item	
9	Indemnities (clause 9)		
	Clause 9.0 is amended by adding Clause 9.1.4:		
	The contractor indemnifies and holds harmless the employer against all liability, losses, claims, damages, penalties, actions, proceedings or judgments (collectively referred to as "Losses") arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor , but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in one sum or by installments or otherwise shall be included by the contractor in the price and shall be paid by him to those to whom they may be payable. The contractor shall reimburse the employer for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the employer in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the employer is a party.		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
10	Works insurances (clause 10)		
	Clause 10.0 is amended by the addition of the following clauses		
	10.5 Damage to the Works		
	(a) Without in any way limiting the contractor's		
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<p>obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>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</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(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</p> <p>10.6 Injury to Persons or loss of or damage to Properties</p> <p>(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 neglect of any person for whose actions the employer is legally liable</p> <p>(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</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			<div style="border: 1px solid black; height: 100%; width: 100%;"></div>
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<p>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 neglect of any person for whose actions the employer is legally liable</p> <p>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</p> <p>(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</p> <p>(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</p> <p>(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</p>			
<p>10.7 High risk insurance</p> <p>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</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			<p style="text-align: center;">R</p>

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

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

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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

		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
11	Liability insurances (clause 11)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
12	Effecting insurances (clause 12)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
13	No clause (clause 13)				
			Item		

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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 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 a variable **construction guarantee** of ten percent (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 in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) calendar days from **commencement date**

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**

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shall issue a written demand in terms of the variable **construction guarantee**

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

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 completion**

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 a **payment certificate** shall be in terms of 31.8(A) and 34.8

14.5.5 Where the **employer** has a 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 fixed **construction guarantee** or may recover from the payment reduction or may do both

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

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

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

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

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be mutatis mutandi in terms of 31.8(B)

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this agreement

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2 the **employer**, in his sole discretion, and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), where after 14.7 shall be applicable

Fixed

Item

Value Related

Item

Time Related

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<u>Execution (A15 - A23)</u>				
15	<p>Preparation for and execution of the works (clause 15)</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) or latest edition, revision and amendments, within twenty-one (21) calendar days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1</p>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
16	<p>Access to the works (clause 16)</p> <p>Fixed</p> <p>Value Related</p> <p>Time Related</p>	<p>Item</p> <p>Item</p> <p>Item</p>		
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17	Contract instructions (clause 17)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
18	Setting out of the works (clause 18)			
	<p><i>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments</i></p> <p><i>The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular interval to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense.</i></p>			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
19	Assignment (clause 19)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
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20	Nominated sub-contractors (clause 20)				
	Clause 20.0				
	Clause 20.1.3 is amended by replacing it with the following:				
	No Clause				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
21	Selected sub-contractors (clause 21)				
	Clause 21				
	Clause 21 is amended by replacing it with the following:				
	No Clause				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
22	Employer's direct contractors (clause 22)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
23	Contractor's domestic sub-contractors (Clause 23)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
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<u>COMPLETION</u>					
<u>Completion (A24-A30)</u>					
Practical completion (clause 24)	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
Works completion (clause 25)	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
Final completion (clause 26)	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
Latent defects liability period (clause 27)	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
Sectional completion (clause 28)	Fixed	Item			
	Value Related	Item			
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	Time Related	Item	
29	<p>Revision of date of practical completion (clause 29)</p> <p>Clause 29.1.1 shall be deemed to be omitted and replaced by the following:</p> <p>Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calendar month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project</p> <p>It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above</p> <p>Add Clause 29.9 as follows:</p> <p>Revision to the date for practical completion shall only be considered when work on the critical path of the agreed programme for the works is delayed."</p> <p>Add Clause 29.10 as follows:</p> <p>Clause 29.10 - Acceleration</p> <p>Clause 29.10.1 Irrespective of whether or not the principal agent rules that the contractor is entitled to an extension of time or a revision of the date for practical completion, the principal agent shall nevertheless, at any time, be entitled to instruct the contractor in writing to accelerate the progress of the remaining works to ensure that the works are completed by the original date for practical completion or revised date as the case may be.</p> <p>Clause 29.10.2 Upon receipt of such instruction, the contractor shall take all necessary steps to ensure that the works are completed timeously including the</p>		
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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 of the **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8. (A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the **final payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**.

31.8(B) Where **security** is a payment reduction in term of 14.7 has been selected the value of the **works** in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates**

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

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6

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except were the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.9 is amended by replacing "seven (7) **calender days**" with "twenty one (21) **calender days**" and by deleting the words "subject to the **contractor** giving the **employer** a tax invoice for the amount due

Clause 31.12 is amended by deleting the following

Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed

Item

Value Related

Item

Time Related

Item

32 Adjustment to the contract value (clause 32)

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

Fixed

Item

Value Related

Item

Time Related

Item

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33	<p>Recovery of expense and loss (clause 33)</p> <p>33.2 Add the following clauses 33.2.9 to 33.2.13:</p> <p>33.2.9 the contractor's failure or neglect to commence with the works on the dates prescribed in the contract</p> <p>33.2.10 the contractor's failure or neglect to proceed with the works in terms of the contract</p> <p>33.2.11 the contractor's failure or neglect for any reason to complete the works in accordance with the contract</p> <p>33.2.12 the contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract</p> <p>33.2.13 the contractor's estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	<p>Item</p> <p>Item</p> <p>Item</p>		
34	<p>Final account and final payment (clause 34)</p> <p>Clause 34.0</p> <p>Clause 34.2 is amended by inserting # next to 34.2</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "thirty (30) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p>	<p>Item</p> <p>Item</p>		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>		<p style="text-align: right;">R</p>	



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	Time Related	Item		
35	Payment to other parties (clause 35)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Cancellation (A36-A39)</u>			
36	Cancellation by employer - contractor's default (clause 36)			
	36.3 Remove reference to "No clause", and replace "principal agent" with "employer"			
	36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of 37.5 this agreement either by the employer or the and contractor ; or for any reason and whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried to Collection			
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37	<p>Cancellation by employer - loss and damage (clause 37)</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. 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> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>			
38	<p>Cancellation by contractor - employer's default (clause 38)</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. 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> <p style="text-align: right;">Fixed</p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
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	Value Related	Item		
	Time Related	Item		
39	Cancellation - cessation of the works (clause 39)			
	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 report"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Dispute Settlement (A40)</u>			
40	Disputes Settlement (clause 40)			
	Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"			
	Clause 40.6 is amended by removing the reference to:			
	No clause			
	Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:			
	Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>State Provision (A41)</u>			
41	State Substitutions (clause 41)			
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Delete in the Substitute Provisions (41.0 State Clauses) clauses 40.2.1, 40.2.2, 40.3, 40.4, 40.5 and 40.6 and replace with the following:

40.1 Should any dispute between the **employer**, his **agents** or **principal agent** on the one hand and the contractors on the other arise out of this **agreement**, such dispute shall be referred to adjudication.

40.2 Adjudication shall be conducted in accordance with the edition of the JBCC Rules for Adjudication current at the time when the dispute is declared. The party, which raises the dispute, shall select three adjudicators from the panel of adjudicators published by the South African Institution of Civil Engineering or Association of Arbitrators (Southern Africa), determine their hourly fees and confirm that these adjudicators are available to adjudicate the dispute in question. The other party shall then select within 7 days one of the three nominated adjudicators, failing which the chairman for the time being of the Association of Arbitrators (Southern Africa) shall nominate an adjudicator. The **adjudicator** shall be appointed in terms of the Adjudicators Agreement set out in C1.4 .

40.3 If provided in the **schedule**, a dispute shall be finally settled by a single Arbitrator to be agreed on between the parties or, failing such agreement within 28 days after referring the dispute to Arbitration, an Arbitrator nominated by the chairman for the time being of the Association of Arbitrators (Southern Africa). Any such reference shall be deemed to be a submission to the arbitration of a single arbitrator in terms of the Arbitration Act (Act No 42 of 1965, as amended), or any legislation passed in substitution therefore. In the absence of any other agreed procedure, the arbitration shall take place in accordance with the Rules for the Conduct of Arbitrations issued by the Association of Arbitrators (Southern Africa) which are current at the time of the referral to arbitration. The Arbitrator shall, in his award, set

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<p>out the facts and the provisions of the contract on which his award is based.</p> <p>40.4 If the schedule provides for court proceedings to finally resolve disputes, disputes shall be determined by court proceedings.</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p> <p><u>Contract Variables (A41)</u></p> <p>42 The Schedule (clause 42)</p> <p><i>Tenderers are referred to the Contract Data and Notes to Tenders for variable pertaining to this contract</i></p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p> <p><u>Contracting and other parties (A42.1)</u></p> <p>42.1.1 Employer:</p> <p>The Mvula Trust</p> <p>Tel: 015 291 2405</p> <p>E-mail: cecilia@themvulatrust.org.za</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>		
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42.1.2 Principal Agent:

LimCo Registered Quantity Surveyors

Tel: 015 306 0338

E-mail: dewald@limcoqs.co.za

42.1.3 Quantity Surveyors:

LimCo Registered Quantity Surveyors

Tel: 015 306 0338

E-mail: dewald@limcoqs.co.za

42.1.4 Civil & Structural Engineer:

Mtema Mashao Consulting Engineers

Tel: 015 307 7701

E-mail: lebiac@mtemamashao.co.za

42.1.5 Agents service:

Agent (3)

42.1.6 Agents service:

Agent (4)

Contract Details (A42.2)

42.2.1 Works Description:

Construction of Sanitation Facilities at Setlopong
 Primary School

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42.2.2 Site Description:

Setlopong Primary School

District: Sekhukhune East
 Province: Limpopo
 Coordinates: -24.604185; 30.08518

42.2.3 Work or installations by direct contractors:

.....

.....

.....

42.2.4 This agreement is for a government contract
 where there are specific options that are
 applicable to a **State** organ only

Yes

42.2.5 Date on which possession of the site is intended
 to be given:

.....TBA..... (Date)

42.2.6 Period for the commencement of the works after
 the contractor takes possession of the site

.....NIL..... working days

42.2.7 For the works **as a whole**. Intended date of
 practical completion and the penalty per
 calendar day

.....TBA..... Date

0.05% of Contract Sum *Penalty Amount*

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<p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calender day</p> <p style="text-align: right;">Section 1 <i>Date</i></p> <p style="text-align: right;">R..... <i>Penalty Amount</i></p> <p>42.2.9 The law applicable to this agreement shall be that of</p> <p style="text-align: right;">Republic of South Africa</p> <p><u>Insurances (A42.3)</u></p> <p>42.3.1 Contract works insurance to be effected by:</p> <p style="text-align: right;"><i>Contractor:</i></p> <p style="text-align: right;"><i>Contract Sum plus 20%</i></p> <p>42.3.2 Supplementary insurance is required</p> <p style="text-align: right;">No</p> <p>42.3.3 Public liability insurance to be effected by:</p> <p style="text-align: right;"><i>Contractor:</i></p> <p style="text-align: right;"><i>For the Sum of R 5 000 000-00</i></p> <p><u>Documents (A42.4)</u></p> <p>42.4.1 Waivers of contractors lien or right of continuing possession is required</p> <p style="text-align: right;">No</p> <p>42.4.2 Number of construction document copies to be supplied to the contractor free of charge:</p> <p style="text-align: right;">3</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			<div style="border: 1px solid black; height: 100%; width: 100%;"></div>
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<p>42.4.3 Bills of Quantities drawn up in accordance with:</p> <p style="padding-left: 40px;">Standard System of Measuring Building Work</p> <p>42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days</p> <p style="text-align: right; padding-right: 40px;">..... Number of</p> <p>42.4.5 JBCC Engineering General Conditions are to be included in the contract documents:</p> <p style="text-align: right; padding-right: 40px;">No</p> <p>42.4.6 The contract value is to be adjusted using escalation adjustment indices</p> <p style="text-align: right; padding-right: 40px;">No</p> <p style="padding-left: 40px;">Where JBCC CPAP is to be used</p> <p style="padding-left: 80px;">Base MonthTBA.....</p> <p>42.4.7 Details of changes made to the provision of JBCC standard documentation: <i>[An addendum is to be attached should the space provided be insufficient]</i></p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>			
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SECTION B: PRELIMINARIES

Definition and interpretation (B1)

43 Definition and interpretation

See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section

Fixed

Item

Value Related

Item

Time Related

Item

Documents (B2)

44 Checking of documents (B2.1)

These bills of quantities:

(1) contain pages and annexes as indexed, and;

(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances

Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Fixed

Item

Value Related

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contract programme and method statement within two weeks of its submission.

Following on these comments the contractor shall amend the contract programme and method statement as may be necessary and submit the final contract programme and method statement to the principal agent for approval within a further two weeks thereafter.

The contract programme shall be processed by computer and be presented to the principal agent in the form of logic charts and bar charts in such a way as to determine the critical path and the float on non-critical activities. All supporting printouts must be available to the principal agent on demand.

The acceptance by the principal agent of the contract programme, or any revision thereof, does not necessarily sanction the accuracy or validity of the network logic, the correctness of individual activities in terms of description or duration, the comprehensiveness of networks or the discrepancies between drawings and any other documents presented by the contractor, and in no way relieves the responsibility of the contractor to comply with the requirements of the Agreement.

No policy decisions other than the planning requirements, procedures and policies provided, will be enforced on the contractor regarding construction of the project and the contractor shall be responsible at all times for ensuring the accuracy, validity and reasonableness of programming information.

Documentation will not be available in complete detail at the date of award of the contract. Non-availability of information will not be deemed an excuse for non-presentation of programmes. In the event of inadequate information, the contractor shall estimate the predicted time applications on available information and quality the submission accordingly.

Development of the contract programme and method statement

Within two weeks of award of the contract, the contractor shall submit an updated contract programme and written method statement which shall include the

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latest information in sufficient detail to permit comprehensive monitoring.

Progress of the works will be monitored by the principal agent. The contractor shall liaise with the principal agent in order to provide whatever information is required to facilitate such monitoring.

Revisions to the contract programme

Revisions to the contract programme may be introduced periodically by the contractor subject to compliance with the contract completion and handover dates.

Providing the required consultation between the relevant parties has highlighted the implications of the required changes, the programming strategy on the project may be changed and the changes noted and specified on logic charts delivered to the principal agent. The changes to the programme will be recorded as firm and binding once the principal agent has sanctioned the said changes.

A revision to the programme will not invalidate the contractual completion dates and applications for extensions of time will be processed by the principal agent in accordance with the conditions of contract.

Should the contractor fail to submit a request for revision to the construction programme, progress monitoring shall be based on the latest revised programme sanctioned by the principal agent.

The contractor shall make all his necessary revisions on the approved network sheets clearly marking, inter-alia, the logic changes and duration changes. These will then be processed by the necessary parties and then approved in the normal manner.

Progress Monitoring

The contractor shall provide regular progress reports showing actual and expected progress against the latest contract programme. Progress reports shall be submitted at each site progress meeting and shall outline the progress against key target dates and

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deviation which has occurred against the most recently updated control programme due to the progress reflected in the as-built construction programme.

The status of each activity must also be reported as follows:

Target - If the activity is not complete, the latest predicted completion date shall be supplied.

Start - If the activity has commenced, the actual date shall be supplied.

Finish - If the activity is complete, the actual completion date shall be supplied.

Problems which may occur during execution of the contract must be specifically identified in progress reports under a separate section of the contractor's report.

Should problems occur during the execution of the contract or the scope of work be increased or decreased, the contractor may be requested to increase the extent or the detail of the programme.

The principal agent may recommend action to be taken by the contractor, including the revision of resource levels, but this information will not be binding on the contractor unless the recommendations are enforced in terms of the conditions of contract by the principal agent and will in no way relieve the contractor's responsibility to comply with the requirements of the Agreement.

Extension of time

Any extension of time which is granted by the principal agent will be annotated to affect selected activities in the programme and the associated activities will be incorporated by revisions to the programme by the contractor. Should the additional activities or the extension of time on existing activities fall on a non-critical area of the programme, extension will be limited to the activities affected by the said additional activities or extensions and the contract dates shall not be affected. If, however, the additional activities fall on the critical path, the principal agent shall take this into

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account when granting any extension of time in terms of the conditions of contract.

The contractor agrees that the contract completion date (i.e. the date for practical completion) has been stipulated in the contract for the benefit of the employer, so that, without derogating from the generality of the foregoing principle it is provide that:

1. The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and
2. Should there for any reason be any float period indicated in the contract programme prior to the contractual completion date then this float period shall be utilized to absorb any delays or extensions of time without affecting the contract completion date.
3. The contractor shall, at all times, ensure that, notwithstanding the approval or sanctioning, reviewing or inspection of a programme or any revision of a programme by the principal agent in the foregoing terms, practical completion and completion of the works shall take place strictly in accordance with this Agreement.

A defective or faulty programme, even if so sanctioned, approved, reviewed or inspected by the principal agent, shall therefore not constitute a cause for granting an extension of time for completion of the works or for entitling the contractor to the payment by the employer in terms of the contract of any loss, compensation or damage whatsoever.

The contractor acknowledges that the principal agent's foregoing participation in the approval of development of, revisions to and updating of the Contract Programme shall take place in consultation with the principal agent. The contractor shall therefore provide the principal agent with such co-operation and/or information and/or access as they may reasonably require for such purposes.

Fixed

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	Time Related	Item		
73	Plant, equipment, sheds and offices (B6.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
74	Main notice board (B6.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
75	Subcontractors notice board (B6.6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Temporary services (B7)</u>			
76	Location (B7.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
77	Water (B7.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	<u>Attendance on nominated and selected subcontractors (B9)</u>				
82	General attendance (B9.1)				
	The schedule rates providing for attendance on nominated subcontractors and other contractors , will be adjusted only if the scope of the work has changed				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
83	Special attendance (B9.2)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
84	Commissioning - Fuel, water and electricity (B9.3)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<u>Financial aspects (B10)</u>				
85	Statutory taxes, duties and levies (B10.1)				
	<i>Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)</i>				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
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86	Payment of preliminaries (B10.2)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
87	Adjustment of preliminaries (B10.3)				
	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 "				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
88	Payment certificate cash flow (B10.4)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
	<u>General (B11)</u>				
89	Protection of works (B11.1)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
90	Protection/isolation of existing/sectionally occupied works(B11.2)				
	Fixed	Item			
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96	Vermin (B11.8)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
97	Overhand work (B11.9)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
98	Instruction manuals and guarantees (B11.10)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
99	As built information (B11.11)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
100	Tenant installations (B11.12)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
Carried to Collection				R	
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101	<p><u>Schedule of variables (B12)</u></p> <p>Pre-tender information (B12.1)</p> <p>This schedule contains all variables referred to in this document and is divided into pretender 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.</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p> <p>12.1.1 Provisional bills of quantities (B12.1.1)</p> <p>The quantities are provisional:</p> <p style="text-align: right;">Yes</p> <p>12.1.2 Availability of construction documentation (B12.1.2)</p> <p>Construction documentation is complete:</p> <p style="text-align: right;">Yes</p> <p>12.1.3 Interest of agents (B12.1.3)</p> <p style="text-align: right;">No</p> <p>12.1.4 Defined works area (B12.1.4)</p> <p><i>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site</i></p> <p>12.1.5 Geotechnical investigation (B12.1.5)</p> <p>The geotechnical report is not available for viewing at the offices of the Principal Agent</p> <p style="text-align: right;">Yes</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>			
		Item		
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<p>12.1.6 Existing premises occupied (B12.1.6)</p> <p>[3.4] Specific requirements: The contractor shall execute the works with little noise and disturbance as possible</p> <p>12.1.7 Previous work - Dimensional accuracy (B12.1.7)</p> <p>[3.5] Details: No additional details</p> <p style="text-align: right;">No</p> <p>12.1.8 Previous work - defects</p> <p>[3.6] Details: No additional details</p> <p>12.1.9 Services - known (B12.1.9)</p> <p><i>Existing services and points of connection are shown on the site plan and/or will be pointed out on site by the principal agent, however it still remains the responsibility of the main contractor to make sure that he/she does not damage existing services during construction.</i></p> <p>12.1.10 Protection of trees</p> <p>[3.9] Specific requirements: No trees to be damaged or removed except those specifically designated in writing by the Principal Agent</p> <p>12.1.11 Inspection of adjoining properties</p> <p>[3.11] Specific requirements: None</p> <p>12.1.12 Enclosure of the works</p> <p>[6.2] Specific requirements: Areas where work is taking place shall at all times be blocked off by appropriate means</p>			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>		<p style="text-align: center;">R</p>	

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<p>12.1.13 Offices</p> <p>[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.</p> <p>12.1.14 Main notice board</p> <p>[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 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.</p> <p>12.1.15 Subcontractors' notice board</p> <p>[6.6] A notice board is required NO Specific requirements:</p> <p>12.1.16 Water</p> <p>[7.2] Option A (by contractor) Yes</p> <p>12.1.17 Electricity</p> <p>[7.3] Option A (by contractor) Yes</p>			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 PRELIMINARIES AND GENERAL</p>		<p style="text-align: center;">R</p>	

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12.1.18 Telecommunications				
[7.4] Telephone	Yes			
Facsimile	Yes			
E-mail	Yes			
12.1.19 Ablution facilities				
[7.5] Option A (by contractor)	Yes			
Option B (by employer)	No			
12.1.20 Protection of existing/sectionally occupied works				
[11.2] Protection is required	Yes			
12.1.21 Special attendance				
The contractor must obtain information from all subcontractors at tender stage regarding special attendance that might be required and make allowance for each and every subcontract that requires special attendance				
[9.2] Subcontractor (1) Details:				
Subcontractor (2) Details:				
Subcontractor (3) Details:				
12.1.22 Protection of the works				
[11.1] Specific requirements: All work that requires protection during construction must be adequately protected up to practical completion by the contractor				
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102	Other post tender information (B12.3)			
	<i>All post-tender information for this section will be determined once tender is awarded</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item			
103	Clause C1 - Contract drawings			
	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 the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent			
	Fixed	Item		
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104	Clause C2 - General Preambles			
	The "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the trades is deemed to be included herein and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
105	Clause C3 - Site instructions			
	All site instructions issued on site shall be recorded in writing within seven (7) calendar days in site instruction book (A4 size and triplicate carbon format), which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only			
	Site instructions may be issued by the principal agent or any of the consultants only. Copies of the site instructions are to be submitted to the principal agent and quantity surveyor within seven (7) calendar days of such recording in the site instruction book			
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106	<p>Clause C4 - Trade Names</p> <p>Wherever a trade name for any product has been described in the bills of quantities, 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</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item	Item	Item
107	<p>Clause C5 - Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorized and indicated in writing, prior to the execution thereof, that costs for such overtime will to be borne by the employer</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item	Item	Item
108	<p>Clause C6 - As-built drawings</p> <p>The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item	Item	Item
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109	<p>Clause C5 - Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
		Item			
		Item			
110	<p>Clause C6 - Plant record</p> <p>At the end of each calendar week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
		Item			
		Item			
111	<p>Clause C7 - Non-cession of monies</p> <p>The contractor shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
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113	<p>Clause C9 - Viewing of the college areas</p> <p>The site is situated in a school area and the tenderer must arrange with the Principal or other responsible school staff to obtain permission to enter the site for tendering purposes</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
114	<p>Clause C10 - Commencement of Works in School Areas</p> <p>As the works falls within a school area the contractor must give the Principal or other responsible staff member 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</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
115	<p>Clause C11 - Entrance Permits to School Areas</p> <p>As the works falls within a school 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 Principal, or chief security officer</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
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116	<p>Clause C12 - Security Check of Personnel</p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	<p>Item</p> <p>Item</p> <p>Item</p>		
117	<p>Clause C13 - HIV/Aids Awareness</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. 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. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p style="text-align: right;">Fixed</p>	<p>Item</p>		
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118	Clause C13.1 - Awareness Champion			
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
119	Clause C13.2 - Awareness Workshop			
	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			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
120	Clause C13.3 - Posters, booklets, videos, etc.			
	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			
	Fixed	Item		
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121	<p>Clause C13.4 - Access to Condoms</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
		Item			
		Item			
122	<p>Clause C13.5- Monitoring</p> <p>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</p> <p style="text-align: right;">Fixed</p> <p style="text-align: right;">Value Related</p> <p style="text-align: right;">Time Related</p>	Item			
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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO.1</u>			
<u>DEMOLITION</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
Also see Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of Work</u>			
Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders for any items not specifically mentioned which they may deem necessary for the proper completion of the work.			
Tenderers are advised that the existing buildings will be in occupation during the progress of the work and due allowance must be made for the work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Representative/Agent			
<u>Credits, etc.</u>			
Old materials from the demolitions are to become the property of the Client			
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All old materials not required by the Client and all rubbish to be immediately carted away and the site left clean and unencumbered

None of the old materials are to be used for new work except where specifically described being set aside for re-use

Measurements

Measurements given are approximate and the Contractor is advised to view the site and any existing structures. The Contractor is to acquaint himself thoroughly in respect of the exact measurements and any errors to the tendered rates in this regard will be for the Contractor's expense

Existing Services

Special care is to be taken not to interfere unnecessarily with any electric light, power or telephone wires, fittings, etc. that may be met with, and notice is to be given to the Representative /Agent when any disconnections or removal of wires, etc. are necessary and the Contractor is to afford every facility to the Electricians carrying out this work

Any water supply pipes or other piping that may be met and found necessary to disconnect or cut, are to be effectively disconnected and any new connections that may be necessary are to be made with proper fittings to the satisfaction of the Representative/Agent, to whom due notice must be given of any such necessary alterations

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BUILDING WORKS
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Protection

In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all existing items not removed (i.e. walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc.) from damage during the progress of the work and provide all necessary materials for so doing

The Contractor will be held solely responsible for any damages to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any such damages arising out of his failure to adhere to the aforesaid requirement

All hazardous materials, e.g. Asbestos, etc, must be removed and disposed off site by a specialist firm as per government regulations and environmental laws

Tenders

The submission of a tender will imply that the Contractor has physically visited the site and fully understands the content and extend of the work described in this Bill and no claims in this respect will be afterwards entertained

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

1	Shade netting barrier 2000mm high formed of steel channel section rails, etc.	m	152	
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Section No. 2
BUILDING WORKS
Bill No. 1
DEMOLITION

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<u>DEMOLITIONS</u>					
<u>Demolishing, rehabilitating and carting away</u>					
2	Single storey building with pitched roof approximately 7 x 3m on plan and 2,8m high at eaves comprising of pit approximately 1,5m deep, concrete surface bed, one-brick external walls, one-brick internal walls and corrugated iron roof covering on timber trusses, including all fittings, frames, etc.	No	2		
3	Single storey building with pitched roof approximately 7 x 3,5m on plan and 2,8m high at eaves comprising of pit approximately 1,5m deep, concrete surface bed, one-brick external walls, one-brick internal walls and corrugated iron roof covering on timber trusses, including all fittings, frames, etc.	No	2		
4	Septic tank approximately 7 x 3.5 on plan and 2m deep including concrete slab, one-brick walls, etc.	No	1		
5	Water harvest tank plinth approximately 1,5 x 1,5m on plan and 1m high including concrete surface bed, block walls, foundations, etc.	No	1		
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Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO.2</u>			
	<u>EARTHWORKS</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
	Also see Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"			
	"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukclip and material of similar hardness			
	"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m ³ in volume			
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Subterranean water

No subterranean water is expected

The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc. are to be submitted to and approved by the principal agent prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

<u>Soil poisoning and insecticide</u>					
All soil poisoning and insecticide to be applied in accordance to SABS specifications and under a five year guarantee by an approved firm of Specialists. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent					
<u>Cleaning-up of disturbed areas</u>					
The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent					

<u>SITE CLEARANCE</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs,bush and trees not exceeding 200mm girth, etc.	m2	250		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	250		
<u>EXCAVATION,FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
3	Trenches	m3	11		
4	Holes, etc	m3	69		
<u>Extra over trench and hole excavations in earth for excavation, in:</u>					
5	Soft rock	m3	8		
6	Hard rock	m3	8		
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	<u>Extra over all excavations for carting away:</u>				
7	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	98		
	<u>Risk of collapse of excavations</u>				
8	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	142		
	<u>Keeping excavations free of water.</u>				
9	Keeping excavations free of water other than subterranean water		Item		
	<u>Selected earth filling obtained from the excavations and /or prescribed stock piles on site, including haulage approximately 100m from perimeter of excavations or stock piles, compacted to 95% Mod AASHTO density:</u>				
10	Under floors, steps, pavings, etc	m3	61		
11	Backfilling to trenches, holes, etc	m3	37		
	<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 95% Mod AASHTO density:</u>				
12	Under floors, steps, pavings, etc	m3	15		
	<u>Compaction of surfaces</u>				
13	Compaction of ground surface in trenches, etc including , breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	32		
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	57		
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<u>BILL NO.3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
Also see Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Concrete general</u>			
Surface beds cast in panels shall be cast in panels not exceeding 20m ²			
All reinforced concrete is to be compacted with a mechanical vibrator			
<u>Concrete test cubes</u>			
Descriptions and tendered rates for concrete strength test cubes, as required under clause 7, "Tests" of SABS 1200 G, shall be deemed to cater for all the costs of providing cube moulds necessary for the purpose, making, storing and sending thereof to an approved accredited laboratory for testing, paying all charges in connection therewith and for submitting test result reports to principal agent			
All concrete strength test cubes, each size 150 x 150 x 150mm, shall be prepared in a set of three			
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It will be required from the contractor to prepare concrete strength test cube sets for each building at the following minimum frequencies:

- One set of three cubes for every 15m³, or part thereof, of concrete cast per day, or:
- One set of three cubes for each batch of concrete cast per event

All concrete strength test cubes shall be labelled and the identity thereof (ie. date, concrete strength type, position where batch was cast relative to the building and building identity) shall be properly recoded for future reference

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself

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

Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described

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Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

UNREINFORCED CONCRETE, ETC

10Mpa/19mm Concrete

1	Surface blinding under footings and bases	m3	3	
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REINFORCED CONCRETE, ETC

25Mpa/19mm Concrete

2	Strip footings	m3	10	
3	Slabs	m3	9	
4	Surface beds	m3	6	
5	Surface beds in pit bottoms	m3	7	
6	Extra over for thickening of concrete at bottoms of brickwork, etc, for thickening size approximately 200mm deep, 400mm at top and tapering to 300mm at bottom, incl all excavations, cart away, etc.	m	109	

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<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float / steel trowel</u>					
7	Surface beds, slabs, etc	m2	148		
<u>TEST CUBES</u>					
8	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	16		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>					
<u>Smooth formwork to sides:</u>					
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	56		
<u>PERMANENT FORMWORK</u>					
<u>Permanent formwork formed of 0.6mm thick corrugated sheeting supported by carbolenium treated gumpoles to the satisfaction of the Principal Agent to soffits:</u>					
10	Slabs propped up not exceeding 1.5m high	m2	45		
11	Leave or form 500mm diameter opening in top of floor slab	No	17		
<u>MOVEMENT, EXPANSION JOINTS ETC</u>					
<u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u>					
12	12mm Thick bitumen impregnated softboard vertical expansion joint not exceeding 300mm high or wide, including all cutting and waste	m	65		
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<p>Section No. 2 BUILDING WORKS Bill No. 4 MASONRY</p>			

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User note: The above preamble generally applies for works in hot and humid coastal areas

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

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

Samples, etc

Rates for brickwork, faced brickwork, etc shall include for all required samples

Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6

BRICKWORK

FOUNDATIONS

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

1	One brick walls	m2	19
2	One brick walls in pit	m2	106
3	Half brick wall brick-on-flat and projecting approximately 115mm built all around tank pit as support to Enviro Loo tanks.	m	100

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<u>FACE BRICKWORK</u>					
<u>Corobrick "Serengeti Satin" face bricks pointed with recessed horizontal and vertical joints delivered to site:</u>					
4	Extra over brickwork for face brickwork in foundation	m2	34		
<u>BRICKWORK SUNDRIES</u>					
<u>Brick reinforcement</u>					
5	150mm Wide reinforcement built in horizontally	m	1 488		
<u>Prestressed fabricated lintels</u>					
6	110 x 70mm Lintels in lengths not exceeding 3m	m	38		
<u>SUPERSTRUCTURE</u>					
<u>FACE BRICKWORK</u>					
<u>Corobrick "Serengeti Satin" face bricks pointed with recessed horizontal and vertical joints delivered to site:</u>					
7	Half brickwork for face brick walls pointed both sides	m2	52		
8	Extra over last for solid facebricks to top row	m	3		
9	One brickwork for face brick walls pointed both sides	m2	171		
10	Extra over brickwork for face brickwork in beamfilling	m2	11		
11	Fair raking and cutting	m	87		
<u>Corobrick "Serengeti Satin" face-brick-on-edge header course copings, sills, etc. pointed with recessed horizontal and vertical joints:</u>					
12	Half-brick wide cut brick sill	m	16		
13	One-brick wide sills set sloping and slightly projecting	m	16		
14	Extra over last for solid facebricks to ends	No	48		
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<u>BRICKWORK SUNDRIES</u>					
<u>Brick reinforcement</u>					
17	75mm Wide reinforcement built in horizontally	m	163		
18	150mm Wide reinforcement built in horizontally	m	570		
<u>Turning pieces</u>					
19	110mm Wide turning piece to lintel etc	m	9		
20	220mm Wide turning piece to lintel etc	m	19		
<u>Galvanised wire ties etc</u>					
21	30 x 1,6mm Galvanised hoop iron roof tie 1600mm girth with one end fixed to timber and the built into brickwork	No	54		
<u>Ventilation bricks, etc</u>					
22	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	24		
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<u>FLOOR AND WALLS SEALERS</u>			
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>		
3	Around steel windows and door frames.	m	83
	<u>"Sikaflex Pro-3icure" polyurethane sealing compound including backing cord, bond breaker, primer, etc, in:</u>		
4	5 x 50mm In saw cut joints in floors	m	Rate Only
5	12 x 15mm Horizontal expansion joint in floors, including raking out softboard for a depth of 15mm (Softboard elsewhere)	m	65
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Guarantee

The Manufacturer shall comply with ISO9001 Quality Management System. The sheeting shall be laid in strict accordance with the manufacturer's specifications by an approved contractor.

A written and approved five year guarantee for site-workmanship and watertightness shall be issued after final inspection of roofs by the manufacturer.

Erection

Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.

Fixing

Fixing shall be done according to SABS 1200HB with minimum 225mm end laps

Sizes

All items are measured net unless otherwise described

Flashings, trimming plates, etc

Prices to include for all cutting and waste and relevant fixing material, unless otherwise described

All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable

All items are unless otherwise described measured net

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Colour, etc.

Colour: Traffic Green
 Gloss: 30+/-Gardner 60
 Film Thickness: 17 - 22 Microns
 Primer: Global Prime 204
 Pencil Hardness: H
 Flexibility: >8mm
 Impact Resistance: >30 INLB on HDG
 Bending: 2 Ton HDG
 Solvent Resistance: > 100 Double Rubs with MEK
 Salt Spray Test: 500 Hours ECCA T8. Corrosion, Blisters, Loss of Adhesion less than 3mm from the scribe
 Weather-0-meter: 2000 Hours ECCA T10, loss of gloss less than 50% average colour change not greater than 5 units (CEILAB)
 Florida Exposure Test: After two (2) years loss of gloss less than 75%, average colour change not greater than three (3) units (CEILAB)

PROFILED METAL SHEETING AND ACCESSORIES

0.6mm Thick IBR Profile Roof Sheeting in chromadek finish fixed to timber purlins (elsewhere)

1	Roof covering with pitch not exceeding 25 degrees	m2	89
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Sundries

2	12" Thermal resistance sisalation laid on purlins	m2	73
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<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
Also see Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Pre-fabricated metal connected timber roof trusses</u>			
All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction			
Trusses should be handled and erected in accordance with SANS 10243			
<u>Descriptions of pre-fabricated timber roof trusses</u>			
Descriptions of trusses shall be deemed to include all necessary splay cut ends, mitres, joining, wrought and shaped ends, connections, bolts, cleats, gussets and timber connectors, plate connectors, clips, etc			
Tendered rates must make provision for the aforesaid as no additional claims in this regard will afterwards be entertained			
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Timber

Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SANS Specification No 563 or as defined in SANS Specification No 1460

Treatment of timber

All timber used in the roof constructing, including timber used for the manufacturing of the roof trusses, loose timbers i.e. wall plates, braces, purlins, etc. and laminated beams, shall be pressure pre-treated with an approved CCA Tanalith preservative, all in accordance with Government Gazette Notice No R602 of 27 March 1986 and any amendments thereto

All cut ends of pre-treated timber shall be resealed with an approved supplementary penetrating sealant which is a requirement in terms of the treatment guarantee

The specific properties mark shall also be indicated on all treated timber in accordance with SANS Specification 1288

Proof of pre-treatment is to be lodged to the Principal Agent prior to the use of any timber for/in the service. A written pre-treatment guarantee shall be submitted to the Principal Agent upon completion

Bolts

Bolts shall be in accordance with BS 4190 or SANS 135

Shear plates, tooth connectors and split rings

Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"

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Washers

Square or round washers of the following dimensions shall be used with all bolts:

- 1 **Bolts up to 8mm diameter:**
Washers shall be minimum 25mm wide of minimum 2,50mm thickness
- 2 **Bolts up to 12mm diameter:**
Washers shall be minimum 36mm wide of minimum 4,00mm thickness
- 3 **Bolts up to 20mm diameter:**
Washers shall be minimum 60mm wide of minimum 5,00mm thickness

Metal connector plates

Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel

The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanizing as per SANS 934 before stamping

All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report

Truss construction

Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers

Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint

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Truss design

All trusses shall be designed by a registered Professional Engineer in accordance with SANS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")

Truss spacing

The truss centres shall be less than or equal to that as described for each respective truss

Truss pitch

The truss pitch shall be as described for each respective truss type

Truss loading

Trusses shall be designed for a live load of 0,50kN/m² and dead load as specified under the sub-heading "Specific load specifications for roof trusses"

Workshop drawings, design and erection guarantee certificates

It shall be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Principal Agent in respect of the required workshop drawings, design and erection guarantee certificates as specified

Dimensions

All dimensions given in the descriptions of the:

- Trusses are nominal and actual measurements are to be obtained or taken on the site before design or fabrication commences
- Extended overhangs to the raking top cord of trusses are measured horizontally and adequate allowances must be made for the appropriate raking length in accordance with the specified pitch

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Erection

All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer

Design system

The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system

However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Principal Agent

Both the design and guarantee for the prefabricated timber roof construction complete, (excluding battens and/or purlins) to be designed, constructed and delivered to site by an approved firm of specialists, under a written guarantee, which shall be lodged with the Architect for approval before the work is commenced

Rates

Tendered rates to include for the complete roof construction, including the design of the roof construction, all timber of required grade and type shown on the design, all cutting and waste, cutting to the exact lengths and end angles to manufacture the respective truss type, supply of all connector plates, prefabrication of trusses in a jig, checking the completed truss for quality, loading up, transporting to the site of the works (cost of girder trusses to include cost of required metal truss hangers), etc

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Prices for trusses must also include for:

1. Unloading and storing under cover and protecting from the weather, or handing over to others for unloading and storing as required
2. Hoisting up and erecting the trusses at the required truss centres, truly plumb and square on top of wall plates, all in accordance with site instructions for erection, bracing and holding down and connections supplied by the truss fabricator for use by:
 - 2.1 themselves (when responsible for erection)
 - 2.2 others (where applicable)
3. Such site supervision as deemed necessary by the fabricator of the trusses to ensure that all the erection details have been complied with to his satisfaction

Particle board

Particle board shall comply with the following specifications:

- a) SANS 1300 Particle board: exterior and flooring type
- b) SANS 1301 Particle board: interior type

ROOFS, ETC.

Sawn softwood

1	76 x 38mm Wall plates	m	43
2	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	100
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	40

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EAVES, VERGES, ETC.

Medium density plain fibre-cement fascias and barge boards:

8	15 x 225mm Fascia boards including galvanised steel H-profile joiners and corner joiners, screwed to timber with 14 x 40mm brass screws	m	49
9	80 x 200mm 90° Moulded barge boards, including galvanised steel H-profile joiners, screwed to timber with 14 x 40mm brass screws	m	27

DOORS, ETC.

Wrought meranti doors hung to steel frames

10	44mm Purpose made framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	11
11	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard	No	3
12	Ditto, but 914 x 2032mm high	No	1

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 BUILDING WORKS
 Bill No. 7
 CARPENTRY AND JOINERY



Section No. 2

BUILDING WORKS

Bill No. 7

CARPENTRY AND JOINERY

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<u>BILL NO.8</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
Also see Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Finishes to ironmongery</u>			
Where applicable, locks are indicated by suffixes in accordance with the following list:			
<ul style="list-style-type: none"> - AB Anodised bronze - AG Anodised gold - ABL Anodised black - AS Anodised silver - BS Satin bronze lacquered - BJ Black powder coated - CH Chromium-plated - G Gold powder coated - GE Grey enamelled - NI Brushed stainless steel - NM Nickel machined - NV Green painted steel - NP Nickel plated - PB Brass plated - PL Polished brass - PT Epoxy coated 			
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- R Red painted aluminium
- SC Satin chromium-plated
- SD Sanded
- SE Silver enamelled
- SS Stainless steel

Preparation of door frames

Descriptions for flush bolts, door closers, floor springs, etc. shall be deemed to include all necessary preparations to door frames to accommodate same

Tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained

Fixing of door locks, handles, flush bolts, etc.

Fixing of all door locks, handles, flush bolts, etc. shall be regarded as fixed to timber door leaves, unless specifically otherwise indicated

Proprietary items

Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items

Prices are to be based on the specific products/articles specified

CATCHES, CABIN, HOOKS, ETC

"Dormakaba":

- | | | | | |
|---|---|----|---|--|
| 1 | 150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged (CH-150) | No | 4 | |
|---|---|----|---|--|

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LOCKS

"Dormakaba":

2	Cylinder Deadlock (D037D SS)	No	4
3	Bathroom Deadlock (D032D SS)	No	11
4	63mm Europrofile Nickel Plated E-SP 5 Pin Double Cylinder (DDC206301MK)	No	4
5	Disbaled WC Indicator and turnknob for physical impaired (DWC-006)	No	12

"Assa Abloy":

6	50mm Brass Padlock with 28mm Hardened Steel Shackle KA (UN33506X000000)	No	4
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HANDLES

"Dormakaba":

7	Pull Handle back-to-back fixed on a 75x170x1.2mm plate (elsewhere) (DHP-430-BL-SF)	Pairs	14.0
8	Straight Tubular Pull Handle fixed back-to-back (DPH301B)	Pairs	1.0

DOOR CLOSERS, FLOOR SPRINGS, ETC.

"Approved":

9	38mm Diameter rubber door stop plugged (black in colour)	No	4
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<u>CORNER PROTECTORS, PUSH PLATES, KICK PLATES, ETC.</u>					
<u>"Dormakaba":</u>					
10	75 x 170 x 1.2mm Thick Grade 430 SS Push Plate, with four countersunk holes, fixed. (DPP-430-BL-SF)	No	14		
11	250 x 914 x 1.2mm Thick Grade 430 SS Kick Plate, with ten countersunk holes. (DKP-430-SF 250)	No	2		
<u>SUNDRIES</u>					
<u>"Dormakaba":</u>					
12	Round Cylinder escutcheon (DCE-002 SS)	Pairs	4.0		
13	Hat and Coat Hook with rubber buffer (DHC-SS-031B)	No	11		
<u>LETTERS, NAMEPLATES, ETC.</u>					
<u>"Dormakaba":</u>					
14	Engraved "Male" information sign, plugged (DSS-130M)	No	1		
15	Engraved "Female" information sign, plugged (DSS-131F)	No	1		
16	Engraved "Male/Female" information sign, plugged (DSS-132M/F)	No	2		
17	Engraved "Disabled Person" information sign, plugged (DSS-133P)	No	1		
<u>BATHROOM FITTINGS</u>					
<u>"Chairman Industries":</u>					
18	DL3 Stainless steel wall mounted side grab rail plugged with and including 8mm diameter x 75mm long sleeved masonry anchors	No	1		
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Striking plates for door frames

Striking plates pressed steel door frames are to be of adjustable chromium-plated type and prepared for mortice locks, unless otherwise described.

PRESSED STEEL DOOR FRAMES

1,2mm "NTY" Double rebated frames suitable for half-brick walls:

- 1 Frame for door 813 x 2032 mm high with one stile prepared for keep of indicator bolt

No

11

COMBINATION PRESSED STEEL DOOR FRAMES AND SECURITY GATES

1,6mm "NTY" Double rebated door frames suitable for one-brick walls:

- 2 "NTY 813 Combo" combination door frame with security gate (door opening in and gate opening out), consisting of pressed steel frame for door 813 x 2032mm high, stile of door frame fitted with three 100mm butt hinges and single security gate and frame, gate formed of 25 x 25 x 2mm tubular section framed surround mitred and welded at angles, two 25 x 25 x 2mm tubular section horizontal middle rails, gate filled in with 12 x 12mm square section vertical bars at 100mm centres, frame formed of 25 x 25 x 2mm tubular section stiles and top rail mitred and welded at angles and fitted with three hinges welded to gate and frame, frame factory welded at maximum 250mm centres to door frame, complete with and including meeting stile of gate leaf fitted with lock box suitable for "Union" N302 security gate lock case ("Union" N302 security lock case elsewhere measured), including 50 x 100 x 5mm flat section protector plate over keep and stile of door frame prepared for keep of security gate lock

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3	"NTY 914 Combo" combination door frame with security gate (both door and gate opening out), consisting of pressed steel frame for door 914 x 2032mm high, stile of door frame fitted with three parliament hinges and single security gate and frame, gate formed of 25 x 25 x 2mm tubular section framed surround mitred and welded at angles, two 25 x 25 x 2mm tubular section horizontal middle rails, gate filled in with 12 x 12mm square section vertical bars at 100mm centres, frame formed of 25 x 25 x 2mm tubular section stiles and top rail mitred and welded at angles and fitted with three hinges welded to gate and frame, frame factory welded at maximum 250mm centres to door frame, complete with and including meeting stile of gate leaf fitted with lock box suitable for "Union" N302 security gate lock case ("Union" N302 security lock case elsewhere measured), including 50 x 100 x 5mm flat section protector plate over keep and stile of door frame prepared for keep of security gate lock	No	1	
<u>STEEL WINDOWS, DOORS, ETC</u>				
<u>"NTY" steel or similar approved windows with standard burglar bars formed of 20 x 5mm thick flat bars to all sashes</u>				
4	Window type NE1, 533 x 654mm high including burglar bars	No	18	
5	Window type NE 7, 1022 x 654mm high including burglar bars	No	6	
<u>STAINLESS STEEL BALUSTRADING</u>				
<u>Welded balustrading to stairs:</u>				
6	Horizontal balustrading 1000mm high, of 50mm external diameter x 1,6mm thick continuous pipe handrail, 38mm external diameter x 1,6mm thick hollow section posts at approximately 1000mm centres with 90mm diameter x 5mm thick footplates bolted to concrete (bolts elsewhere) and 16mm intermediate horizontal balusters at 100mm centres between top and bottom rails	m	4	
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	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
	Also see Supplementary preambles as specified in the Trades			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Granolithic</u>			
	The method to be used shall be either the monolithic method or the bonded method			
	For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed 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 all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic			
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	Section No. 2 BUILDING WORKS Bill No. 10 PLASTERING			

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

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² 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

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

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

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Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion of 1kg pigment per pocket of cement, of uniform appearance and consistent colour throughout

Textured finishes

All specialist plaster wall finishes are to be applied to the satisfaction of the Representative/Agent and executed by an approved firm of Specialists, all strictly in accordance with the materials supplied and methods employed by the Manufacturer

Preparatory work for textured finishes

Textured finishes to be applied to plaster (plaster elsewhere)

All surfaces are to be inspected and approved by the Representative/Agent before any work is commenced with

Prices for textured finishes

Prices are to include for all priming, preparatory work, etc.

SCREEDS

Screeds to steel trowelled, on concrete:

1	25mm thick on floors	m2	46	
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GRANOLITHIC

Untinted steel floated granolithic, on concrete

2	30mm Thick to floors and landings	m2	57	
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INTERNAL PLASTER

Cement plaster on brickwork or blockwork

3	On pits walls	m2	139	
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FLOOR AND WALLS SEALERS

Minimum two coats approved epoxy coat:

4	On screed	m2	46	
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5	On internal plaster walls and floors in pit	m2	195	
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<p><u>SECTION 2</u></p> <p><u>BILL NO.11</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".</p> <p>Also see Supplementary preambles as specified in the Trades</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p>			
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PVC-U pipes and fittings

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

PVC-U pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings

Pipes shall be type IV and of the class specified with compression fittings

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. 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 "Maksal Tubes" type. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

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Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and 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

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level

Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion

Petrolatum anti-corrosion tape

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 20% overlaps

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions

Prices for wrapping of pipes shall include for all work as described to couplings in the length

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

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Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 90% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

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Regulations

All drainage and sanitary work shall be executed in accordance with the regulations of the Local Authority. Only registered plumbers and drainlayers shall be employed on any plumbing and drainage work and a Certificate of Compliance must be issued after completion of the installation

Testing

Descriptions for the testing of plumbing and drainage installations shall be deemed to cater for all testing apparatus, labour, etc. and shall be done strictly as directed by and in accordance to the principal agent's instructions, including for retesting after taking out and making good all defective work to his entire satisfaction

RAINWATER DISPOSAL

0,6mm Galvanised sheet iron with "Chromodek" finish on one side:

1	100 x 100mm Roof gutters with beaded front edge	m	25
2	Extra over gutter for stopped end	No	8
3	Ditto, but for outlet for 75 x 100mm pipe	No	4
4	75 x 100mm Rainwater downpipe fixed to wall	m	8
5	Extra over rainwater pipe for eaves or plinth offset	No	4
6	Extra over rainwater pipe for bird wire mesh to prevent unwanted objects in the pipe	No	4

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SANITARY FITTINGS

"Vaal Sanitaryware":

- 7 Vaal: Vitreous china 510 x 400mm "Daisy" (code 700803WH) semi-rectangular basin (colour: white) with integrated overflow and chain stay hole, one tap hole, 32mm in centre (tap elsewhere) and fixing to brickwork with two 10mm bolts (code 8448Z0)

No

1

Precast concrete wash hand trough

- 8 Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, including all necessary pipework including soak away approximately 10 meters away from the wash trough, sized at 1000 x 1000 x 1000mm covered with "bidim" and at least 500mm below natural ground level, including excavations, 40 - 80mm stone filling complete, etc.

No

5

SUPPLY, DELIVER AND INSTALL ENVIRO-LOO SYSTEM COMPLETE

"Enviro-Loo":

- 9 Enviro Industrial Standard seat (BPi1040) system complete, comprising of top unit, inlets, drying plate, air inlets, standard toilet pan, seat and lid, vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, signage, screws, organic starter enzyme and toilet cleaner including all necessary fittings installed complete strictly in accordance with manufacturer's instructions

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10	Enviro Industrial Junior seat (BPi1040) system complete, comprising of top unit, inlets, drying plate, air inlets, standard toilet pan, seat and lid, vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, signage, screws, organic starter enzyme and toilet cleaner including all necessary fittings installed complete strictly in accordance with manufacturer's instructions	No	4		
11	Enviro-loo evaporative urinal system, 4- bowl urinal unit tank system comprising of urinal tank, urinal bowls including brackets, vent pipes, ventilation extraction unit fixed to wall with vent wall bracket, screws, signage, organic starter, enzyme and toilet cleaner including all necessary fittings installed complete strictly in accordance with manufacturer's instructions	No	1		
<u>WASTE UNIONS, TRAPS, ETC</u>					
<u>"Marley":</u>					
12	40 x 300mm Rubber double bowl wash trough or sink reseal "P" or "S" trap combination	No	5		
13	32 x 40mm Reseal "P" or "S" trap	No	1		
<u>"Cobra Watertech":</u>					
14	No 308/32 Chromium plated unslotted basin waste	No	1		
<u>TAPS, VALVES, ETC.</u>					
<u>"Cobra Watertech":</u>					
15	15mm No 232/350 Angle regulating valve	No	5		
16	15mm No 232/350 Angle regulating valve with 350mm long flexible service connection	No	1		
17	15mm No 108 Rough brass hose bibtap	No	10		
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18	15mm 505-21B Chromium-plated "Elbow action" cold water pillar tap	No	1		
19	40mm Series F/F valve	No	1		
<u>SANITARY PLUMBING</u>					
<u>uPVC soil and vent pipes:</u>					
20	50mm Diameter pipes	m	15		
21	50mm Diameter pipes, built into brickwork and/or concrete	m	11		
<u>Extra over uPVC soil and vent pipes for fittings:</u>					
22	50mm Bend	No	8		
23	50mm Access bend	No	9		
24	50mm Junction	No	8		
25	50mm BSP adaptor	No	1		
<u>WATER SUPPLIES</u>					
<u>Class 0 copper pipes with capillary couplings, built into brickwork, no chasing allowed:</u>					
26	15mm Pipes	m	19		
<u>Extra over Class 0 copper pipes for capillary fittings:</u>					
27	15mm Fittings	No	26		
<u>Extra over Class 0 copper pipes for brass compression fittings</u>					
28	15mm Fittings	No	10		
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	<u>Class 10 HDPE pressure pipes laid on class C bedding:</u>				
29	40mm Diameter waterpipe, including excavations not exceeding 1m deep, bedding for flexible pipes, filling in and compacted	m	210		
	<u>Extra over HDPE piping for compression fittings:</u>				
30	40mm BSP adaptor	No	5		
31	40mm Reducer coupling	No	5		
32	40mm Coupling	No	3		
33	40mm Elbow	No	6		
34	40mm Tee	No	5		
35	40mm Reducing tee	No	3		
	<u>SOIL DRAINAGE</u>				
	<u>uPVC Pipes</u>				
36	110mm Diameter pipes through brickwork, 300mm long	No	15		
37	110mm Diameter pipes laid in and including trenches not exceeding 1m deep	m	48		
	<u>Extra over uPVC pipes for fittings</u>				
38	110mm Bend	No	8		
39	110mm Junction	No	8		
40	110mm Rodding eye	No	4		
	<u>uPVC Gulleys</u>				
41	110mm Gully not exceeding 750mm deep, including excavations, pre-cast concrete surround etc.	No	4		
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CONSTRUCTION OF SANITATION FACILITIES AT
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<u>ON FIBRE-CEMENT BOARD SURFACES</u>					
<u>Prepare and prime with one coat "Plascon Plaster Primer (UC56)" and two finishing coats "Plascon Superior Low Sheen (PEM 1000/TLS)" paint:</u>					
1	On fascias and barge boards, including priming metal jointing strips	m2	38		
<u>ON METAL SURFACES</u>					
<u>Spot priming defects in pre-primed surfaces with "Plascon Metalcare Etch Primer Red-Oxide (SNK200), prime with "Plascon Metalcare Mild Steel Primer (UC501)" and apply two finishing coats "Plascon Velvagro Non-drip Water-based Enamel (TVW1000)" paint, on:</u>					
2	Door frames	m2	16		
3	Windows with burglar bars (both sides measured over the full flat area)	m2	20		
4	Gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	13		
<u>ON WOOD SURFACES</u>					
<u>Sand down to a smooth finish, prime with "Plascon Wood Primer (UC2)", and apply two finishing coats "Plascon Velvagro Non-drip Water-based Enamel (TVW 1000) paint, on:</u>					
5	Meranti Doors (Internal)	m2	36		
<u>Sand down to a smooth finish, and apply three coats "Plascon Woodcare Wood Preservative (FPR3)", on:</u>					
6	Meranti Doors (External)	m2	14		
Carried to Collection				R	
Section No. 2 BUILDING WORKS Bill No. 13 PAINTWORK					

CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

ON PVC SURFACES

Clean with "Plascon Aquasolv Degreaser (GR1)", prime with "Plascon Multi-Surface Primer (WUP1)" and apply two finishing coats "Plascon Super Universal Enamel (TSE 1000) paint, on:

7 Pipes not exceeding 300mm girth

m

27

Carried to Collection

R

Section No. 2
BUILDING WORKS
Bill No. 13
PAINTWORK

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CONSTRUCTION OF SANITATION FACILITIES AT
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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

	<u>Soil insecticide in accordance with SANS 5859:</u>				
3	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	87		
	<u>25MPa/19mm Reinforced concrete:</u>				
4	Aprons v-shaped, cast in alternating panels	m3	10		
5	Extra over concrete aprons for thickening size 150mm deep average, 200mm wide top and tapering to 100mm at bottom including all excavation to 150mm, backfilling, etc.	m	87		
	<u>Test cubes:</u>				
6	Making and testing a set of three concrete strength test cubes, each 150 x 150 x 150mm, sending them to an approved laboratory for testing and paying all charges in connection therewith (Provisional)	No	4		
	<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
7	Aprons, etc to falls	m2	87		
	<u>Rough formwork to sides:</u>				
8	Edges of aprons not exceeding 300mm high or wide	m	87		
	<u>Mesh Reinforcement (measure nett)</u>				
9	Mesh ref. No. 193 fabric reinforcement fixed horizontal in surface beds	m2	87		
Carried to Collection					R
Section No. 3 EXTERNAL WORKS Bill No. 1 CONCRETE APRONS					

Section No. 3

EXTERNAL WORS

Bill No. 1

CONCRETE APRONS

COLLECTION

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Section No. 3

EXTERNAL WORS

Bill No. 1

CONCRETE APRONS

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CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO 2</u>			
<u>PAVINGS, ETC.</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
Also see Supplementary preambles as specified in the Trades			
<u>Materials and workmanship must be used in accordance to the following SABS 1200 specifications:</u>			
C - Site Clearance			
D - Earthworks			
DM - Earthworks (Roads, sub-grade)			
M - Roads (General)			
ME - Sub-base			
MF - Base			
ML - Kerb and Channelling			
MM - Ancillary Roadworks			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Precast concrete block surfacing</u>			
Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications			
Paving shall be laid to herringbone pattern on 20mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
Carried to Collection			R
Section No. 3			
EXTERNAL WORS			
Bill No. 2			
PAVINGS, ETC.			



CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Clean sand shall be swept into joints between roadstones at completion

THE FOLLOWING IN WALKWAYS

Earthworks:

1	Stripping of topsoil 150 mm deep extreme	m3	39
2	Ditto, but cart to a position on site as indicated by the Principal Agent, stock pile, later retrieve same, spread and level over the general site	m3	39
3	Reduce levels to open face, extreme depth 300mm below natural ground level	m3	77
4	Ditto, but cart to a position on site as indicated by the Principal Agent, stock pile and maintain	m3	77
5	Extra over excavation in earth "in bulk" for excavation in "soft rock"	m3	8
6	Ditto, but in "hard rock"	m3	8
7	Approved topsoil obtained from excavations in backfilling behind kerbing, including spreading and levelling	m3	8
8	Approved filling (minimum G6 and/or G7 material) supplied by the Contractor to form sub-base, spread, levelled, watered, and compacted to 95% Mod. AASHTO density in layers not exceeding 150mm thick	m3	77
9	In-situ compaction of ground surfaces under pavings, etc., including scarifying for a depth of 150mm and compacting to 93% Mod AASHTO density	m2	258
10	"Modified AASHTO Density" tests	No	9
11	20mm Thick sand bed spread and levelled to falls to true and even levels to receive interlocking paving	m2	258

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Section No. 3
 EXTERNAL WORS
 Bill No. 2
 PAVINGS, ETC.



CLUSTER 8
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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

	<u>Weed killer mixed in accordance to supplier's specifications</u>				
12	Under concrete paving	m2	258		
	<u>Soil insecticide in accordance with SANS 5859:</u>				
13	Under concrete paving	m2	258		
	<u>"Technicrete Bondbrick" pre-cast concrete paving (35MPa Minimum compressive strength):</u>				
14	50mm Thick natural grey interlocking paving blocks laid in herringbone pattern	m2	258		
15	Extra on last for straight edging to perimeter	m	344		
	<u>25MPa/19mm In-situ concrete edge and restrainer beams:</u>				
16	Edge or restrainer beam 200mm wide x 250mm high overall in lengths not exceeding 2m, bedded 155mm deep into walkway bed and finished smooth on top with wooden float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc	m	13		
	<u>Pre-cast 25MPa/19mm concrete kerbing finished smooth on exposed surfaces including bedding, jointing and hollow rounded pointing:</u>				
17	Standard mountable kerb (SABS 927, figure 8C) in lengths not exceeding 1m, including 225mm x 225mm semi-circular on plan x 150mm high in-situ 15MPa/19mm concrete haunching along back of kerb at joints, including all necessary excavations, bedding, jointing and hollow rounded pointing, back filling, etc	m	344		
Carried to Collection				R	
Section No. 3 EXTERNAL WORS Bill No. 2 PAVINGS, ETC.					

CLUSTER 8
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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Section No. 3

EXTERNAL WORS

Bill No. 2

PAVINGS, ETC.

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 Bill No. 2
 PAVINGS, ETC.



CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Item No	Quantity	Rate	Amount
<p><u>SECTION 3</u></p> <p><u>BILL NO 3</u></p> <p><u>FENCING</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".</p> <p>Also see Supplementary preambles as specified in the Trades</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fencing</u></p> <p>Fencing to be done by a company with ISO 9001 accreditation</p> <p>Shop drawings for both gates and panels to be submitted to the principal agent prior to fixing for approval</p> <p>A ten year anti-corrosion guarantee to be provided</p> <p>The contractor must provide a Certificate of Compliance for material and installation issued by either the manufacturer and/or the civil engineer</p> <p><u>Gates</u></p> <p>Gates shall be of type, size and material as specified and shall be fixed to gate posts unless otherwise described</p> <p>All gates shall be hot dipped galvanised</p>			
Carried to Collection			R
Section No. 3 EXTERNAL WORS Bill No. 3 FENCING, ETC			

CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Materials

All materials to be used for this work shall be new, of sound quality and suitable for their intended purposes. The use of second hand/grade material will not be permitted

Clearing the fence line

It will be regarded the Contractor's responsibility to ensure that the ground surface along the fence line is at all times throughout the contract period kept and maintained cleared for a width of not less than 1,5m wide on each side of the fence and shall include for the digging up and removal of all rubbish, debris, vegetation, shrubs, bush, trees not exceeding 200mm diameter girth, etc., including levelling of the ground to ensure that the maximum and minimum clearances (as specified hereinafter) between the bottom strand and the ground is not exceeded

The cleared ground shall be kept clean and maintained throughout the construction period

Tendered rates

Tendered rates shall include for the supply and delivery of all materials, labour, erection of fence, all earthwork activities, concrete, shuttering, tools, plant, paintwork and anything else necessary to complete the fence

No additional claims in this regard will afterwards be entertained

SECURITY FENCING AND GATES

Clearance of fence routes:

1	Clear and grub along fence routes up to 3m wide	m	195	
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Carried to Collection

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Section No. 3
 EXTERNAL WORKS
 Bill No. 3
 FENCING, ETC



CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

	<u>"Harrop-Allin" fencing, gates, etc:</u>				
2	Welded mesh security fence 1800mm high, complete with and including Y-section standards at maximum 3m centres.	m	195		
3	Stay 2700mm long, complete with and including concrete base, all necessary excavations, formwork, etc	No	42		
4	Straining, end and gate post 2400mm long complete with and including concrete base, all necessary excavations, formwork, etc	No	12		
5	Corner post 2400mm long, complete with and including concrete base, all necessary excavations, formwork, etc	No	9		
6	12mm Diameter x 300mm long mild steel eyebolts	No	105		
7	Single leaf swing gate 1000 x 1800mm high to match fence including suitable 150mm sliding bolt welded on	No	1		
	<u>Sundries:</u>				
8	50mm Brass Padlock with 28mm Hardened Steel Shackle KA (UN33506X000000)	No	1		
Carried to Collection					R
Section No. 3 EXTERNAL WORKS Bill No. 3 FENCING, ETC					

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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO 4</u>			
	<u>RAINWATER HARVESTING TANKS, ETC.</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
	Also see Supplementary preambles as specified in the Trades			

	<u>THE FOLLOWING IN RAINWATER HARVESTING TANKS</u>			
	<u>Earthworks:</u>			
1	Excavations not exceeding 2m deep for trenches	m3	19	
2	Surplus material from excavations on site to a dumping site to be located by the Contractor	m3	13	
3	Risk of collapse to sides of trench and hole excavations not exceeding 1,5m deep	m2	28	
4	Backfilling obtained from excavations to trenches, holes, etc	m3	11	
5	Back filling obtained from excavations under floors, steps, pavings, etc	m3	5	
6	In-situ compaction of ground or reduced formation levels, including scarifying for a depth of 150mm and compacting to 93% Mod AASHTO density	m2	25	
	Carried to Collection			
	Section No. 3			
	EXTERNAL WORS			
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	RAINWATER HARVESTING TANKS			

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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

7	"Modified AASHTO Density" tests	No	4		
8	Soil insecticide under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	25		
9	Soil insecticide to bottoms and sides of trenches etc	m2	83		
	<u>Unreinforced concrete, in:</u>				
10	25Mpa Concrete to strip footings	m3	8		
	<u>Reinforced concrete, in:</u>				
11	25Mpa Concrete to surface bed	m3	2		
12	Finishing off top of concrete with wooden float whilst concrete is still green	m2	25		
	<u>Test cubes:</u>				
13	Making and testing a set of three concrete strength test cubes, each 150 x 150 x 150mm, sending them to an approved laboratory for testing and paying all charges in connection therewith	No	4		
	<u>Rough formwork (Degree of accuracy III), to:</u>				
14	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	40		
	<u>Mesh Reinforcement (measure nett)</u>				
15	Mesh ref. No. 193 fabric reinforcement fixed horizontal in surface beds	m2	25		
	<u>Brickwork:</u>				
16	One-brick walls	m2	23		
17	Extra over brickwork for "Serengeti Satin" facebricks	m2	23		
Carried to Collection				R	
Section No. 3					
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RAINWATER HARVESTING TANKS					



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CONSTRUCTION OF SANITATION FACILITIES AT
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	<u>Brickwork reinforcement:</u>				
18	150mm Wide reinforcement built in horizontally	m	132		
	<u>"Approved signage":</u>				
19	Size 300 x 200mm high "Not for human consumption" in black writing on white board	No	4		
	<u>Metalwork:</u>				
20	M16 x 100mm sleeve anchor with closed eyebolt	No	16		
	<u>"JoJo" approved SANS PVC water tanks</u>				
21	2 700 Litre watertank fitted onto and secured to tank platforms including fastening cables	No	4		
22	Solid brass lockable tap with 40/20 reducer to be fitted to JoJo tanks including approved lock, tap should be fixed to concrete with approved mechanism (included) to prevent theft	No	4		
Carried to Collection					R
Section No. 3 EXTERNAL WORS Bill No. 4 RAINWATER HARVESTING TANKS					

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CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

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Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades" (2008 Edition) and/or "Specifications of materials and methods to be used - PW371".			
Also see Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cash discount</u>			
No cash discount. All provisional sums are "NET"			
<u>Fuel, power and water for commissioning plant</u>			
The cost of water, power and fuel for the commissioning of plant shall be borne by the Selected or Nominated Sub-contractor appointed for the relevant selected or nominated sub-contract works in terms of the conditions under which they have/are contracted for the specialist work involved			
<u>Profit</u>			
Provisional sums are net and do not include builder's discount. The Contractor may allow next to "Profit" items for any profit he might consider necessary			
Carried to Collection			R
Section No. 4 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS			

CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Attendance

It will be expected from the Contractor to render all general attendance and, if specifically so described, special attendance services to each relevant Specialist, all in accordance with Clauses B9.1 and B9.2 in the "Preliminaries" section

Tenderers are also urged to thoroughly acquaint themselves with the content of Clauses B9.1 and B9.2 in the "Preliminaries" section for the definitions and adjustment of "Attendance" and "Special Attendance" respectively

The item "Attendance" which follows each of the provisional sums for Nominated and/or Selected Sub-contractors' work, shall be deemed to cover all the Contractor's costs incurred in providing free of charge to the Nominated and/or Selected Sub-contractors, the following:

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

The Contractor may allow next to "Attendance" items for the recovery of such costs he might consider necessary

Selected and nominated sub-contracts

These scheduled allowances are for work to be executed under separate selected and/or nominated sub-contracts by firms of Specialists to be nominated by the Employer

All provisional sums cover the supply and installation of material, equipment, plant, etc., including the commissioning thereof, where applicable

Carried to Collection

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Section No. 4
 PROVISIONAL SUMS
 Bill No. 1
 PROVISIONAL SUMS



CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Money provisions

The scheduled allowances for money provisions are to be used at the discretion of the Employer and to be adjusted where applicable or to be deducted in whole or in part if not required

MONEY PROVISIONS

Community Liaison Officer:

- 1 Provide the sum of R31 500.00 (Thirty One Thousand Five Hundred) for the skills development and technical training of local beneficiaries complete by a firm of specialists to be selected by the **principal agent**
- 2 Allow for profit on last if required
- 3 Ditto, but for attendance

Item

31 500.00

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 PROVISIONAL SUMS
 Bill No. 1
 PROVISIONAL SUMS



Section No. 4

Bill No. 1

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Bill No. 1
PROVISIONAL SUMS

CLUSTER 8
TENDER NO.: TMT-DBE-22/23-SAFE-LPCL8
CONSTRUCTION OF SANITATION FACILITIES AT
SETLOPONG PRIMARY SCHOOL

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	149	
2	BUILDING WORKS	221	
3	EXTERNAL WORKS	237	
4	PROVISIONAL SUMS	241	
	SUB-TOTAL		R
	<u>Contingencies:</u>		
	Provide the sum of R130 000.00 (One Hundred and Thirty Thousand) for contingencies for building works, to be used as directed by the principal agent and deducted in whole or in part if not required	Item	130 000.00
	NET TOTAL, EXCLUSIVE OF VALUE ADDED TAX		R
	ADD: 15% VALUE ADDED TAX		R
	Carried to Form of Tender		R