

SECTION NO. 1

PRELIMINARIES

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SECTION NO. 1**PRELIMINARIES****MEANING OF TERMS "TENDER / TENDERER"**

Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

The JBCC Preliminaries Code 2101, July 2005 edition 4.1 code 2101. for use with the JBCC Principal Building Agreement Edition 4 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".

PRICING OF PRELIMINARIES

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related by insertion of "F", "V" or "T" and the respective amounts in the "Rate" column with the total extended to the "Amount" column.

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

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT**DEFINITIONS**

1 A1 DEFINITIONS AND INTERPRETATION Clause 1.0

Item

1.1 Definition of "Commencement Date" is added:

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

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

"CONSTRUCTION PERIOD" means The period commencing on the intended date as stated in the contract data

that possession of the site shall be given to the contractor and ending on the date of practical

completion

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:

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<p>(a) In respect of interest owed by the employer, the interest rate as determined by the Minister of Justice and Constitutional Development, from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and</p> <p>(b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.</p> <p>Clause 1.6.4 is amended by replacing it with the following: No clause</p> <p><u>OBJECTIVE AND PREPARATION</u></p>		
2	A2 OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0	Item
3	A3 DOCUMENTS Clause 3.0	Item
<p>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</p>		
4	A4 DESIGN RESPONSIBILITY Clause 4.0	Item
5	A5 EMPLOYER'S AGENTS Clause 5.0	Item
<p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4</p>		
6	A6 SITE REPRESENTATIVE Clause 6.0	Item
7	A7 COMPLIANCE WITH REGULATIONS Clause 7.0	Item
<p>Note: The provisions herein include inter alia, compliance with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), and in particular with Regulation 7 requiring the compilation of a health and safety plan, as well as Regulation 8.5(6) requiring the appointment of a construction supervisor See also clause C5 of Section C - Specific Preliminaries</p>		
8	A8 WORKS RISK Clause 8.0	Item
9	A9 INDEMNITIES Clause 9.0	Item
10	A10 WORKS INSURANCES Clause 10.0	Item
<p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</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>		
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(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

(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Injury to Persons or loss of or damage to Properties (a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable

(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable

(c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor

(d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion

(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed

(f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works

10.7 High risk insurance In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

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<p>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</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs</p> <p>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</p> <p>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</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>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</p>		
11	A11 LIABILITY INSURANCES Clause 11.0	Item
12	A12 EFFECTING INSURANCES Clause 12.0	Item
13	A13.0 No clause	N/A
14	A14 SECURITY Clause 14.0	Item
<p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p>		
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14.1 In respect of contracts with a contract sum up to R1 million, the security to be submitted by the contractor to the employer will be as a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)

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

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

14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected.

14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor

14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor

14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor

14.3.5 The employer shall be entitled to recover 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

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

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

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

14.5 Where security as 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 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

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)

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<p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the 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</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2, the employer, in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable</p> <p><u>EXECUTION</u></p>		
15	<p>A15 PREPARATION FOR AND EXECUTION OF THE WORKS Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with: No Clause</p> <p>Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date</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 15.1.2 and 15.1.4</p>	Item
16	A16 ACCESS TO THE WORKS Clause 16.0	Item
17	A17 CONTRACT INSTRUCTIONS Clause 17.0	Item
18	A18 SETTING OUT OF THE WORKS Clause 18.0	Item
19	A19 ASSIGNMENT Clause 19.0	Item
20	<p>A20 NOMINATED SUB-CONTRACTORS Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following: No Clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p>	Item
21	<p>A21 SELECTED SUBCONTRACTORS Clause 21.0</p> <p>Clause 21 is amended by replacing it with: No Clause</p>	Item
22	A22 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0	Item
23	A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.	Item
<u>COMPLETION</u>		
24	A24 PRACTICAL COMPLETION Clause 24.0	Item
25	A25 WORK'S COMPLETION Clause 25.0	Item
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26	A26 FINAL COMPLETION Clause 26.0	Item	
27	A27 LATENT DEFECTS LIABILITY PERIOD Clause 27.0	Item	
28	A28 SECTIONAL COMPLETION Clause 28.0	Item	
29	A29 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0	Item	
30	A30 PENALTY FOR NON-COMPLETION Clause 30.0	Item	
<u>PAYMENT</u>			
31	A31 INTERIM PAYMENT TO THE CONTRACTOR Clause 31.0	Item	
<p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A 31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Alternative B</p> <p>31.8(B) Where security is a payment reduction in terms of 14.7 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:</p> <p>31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p>			
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	<p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p>		
32	<p>A32 ADJUSTMENT TO THE CONTRACT VALUE Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor"</p>	Item	
33	<p>A33 RECOVERY OF EXPENSE AND LOSS Clause 33.0</p> <p>Clause 33.2 is amended by adding the following clauses:</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>	Item	
34	<p>A34 FINAL ACCOUNT AND FINAL PAYMENT Clause 34.0</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p>	Item	
35	<p>A35 PAYMENT TO OTHER PARTIES Clause 35.0</p> <p><u>CANCELLATION</u></p>	Item	
36	<p>A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT Clause 36.0</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p>	Item	
37	<p>A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE Clause 37.0</p>	Item	
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38	<p>Clause 37.0 is amended by the addition of the following clause: 37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT Clause 38.0</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>	Item
	39 A39 CESSATON - CANCELLATION OF THE WORKS Clause 39.0	Item
	40 A40 DISPUTE SETTLEMENT Clause 40.0	Item
41	<p>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</p> <p><u>SUBSTITUTE PROVISIONS</u></p> <p>A41 STATE CLAUSES Clause 41.0</p> <p>The substitute definition of "Construction Period" shall not be applicable to this contract. Substitute clause 31.9 shall be deemed to be replaced by the following: "The employer shall pay the contractor the amount certified within thirty (30) calendar days of the date for issue of the payment certificate. Payment shall be subject to the contractor giving the employer a tax invoice for the amount due."</p> <p><u>CONTRACT VARIABLES</u></p> <p><u>THE SCHEDULE</u></p> <p><u>A42 PRE-TENDER INFORMATION</u></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder.</p> <p><u>A42.1 CONTRACTING AND OTHER PARTIES</u></p> <p>42.1.1 Employer : Department of Education Postal Address : 42.1.2 Implementation Agent: Development Bank of Southern Africa</p>	Item
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42.1.2 Principal Agent : Lakhanya Quantity Surveyors Postal address: 62 Underwood Road Hatton Estate Pinetown Durban 3626 Telephone: (031) 266 9586 Facsimile: E-mail: Postal Address :

42.1.3 Agent (1): Qakaza Africa Architects Postal address: 14 Fisher Street Durban 4001 Telephone: (031) 337 1565 Facsimile: E-mail:

A42.2 CONTRACT DETAILS

42.2.1 Works Description: Additions and Alterations at Carrisbrooke Primary School

42.2.2 Site Description: Harry Gwala District,

42.2.3. Work or Installation by direct contractors:

42.2.4. Specific options that are applicable to a State organ only Where so:

(1) Interest rate legislation: Refer to clause A1.0 of the Preliminaries: Definiton of "Interest"

(2) Lateral support insurance to be effected by the contractor: No

(3) Payment will be made for materials and goods: Yes

(4) Dispute resolution by litigation: Yes

(5) Extended defects liability period applicable to the following elements: N/A

42.2.5 Possession of the site is intended to be given on: N/A

42.2.6 Period for the commencement of the works after the contractor takes possession of the site: 14 Working days

42.2.7 Intended date of practical completion and the penalty per calendar day for the works as a whole: Date: N/A Penalty: 1.75cents/R100.00

42.2.8 Intended dates of practical completion and the penalties per calendar day for the works in sections: N/A

42.2.9 The law applicable to this agreement shall be that of: South Africa

A42.3 INSURANCES

42.3.1 Contract works insurance to be effected by: Contractor For the sum of: To be determined by contractor (refer 10.1 under State clauses) With a deductible of: To be determined by contractor

42.3.2 Supplementary insurance is required: Yes

42.3.3 Public liability insurance to be effected by: Contractor For the amount of: R2 500 000.00 With a deductible of: To be determined by contractor

42.3.4 Support insurance to be effected by the Employer N/A

A42.4 DOCUMENTS

42.4.1 Waiver of the contractor's lien or right of continuing possession is required: YES

42.4.2 Construction document copies to be supplied to the contractor free of charge: 3 (three)

42.4.3 Bills of quantities drawn up in accordance with: Sixth Edition (Revised) of the Standard System of Measuring Building Work

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42.4.4 On acceptance of tender the balanced bills of quantities is to be submitted within: 10 working days		
42.4.5 JBCC Engineering General Conditions are to be included in the contract documents: No		
42.4.6 The contract value is to be adjusted using CPAP indices: No Where CPAP is to be used the base month is: N/A Alternative indices: N/A		
42.4.7 Details of changes made to the provisions of JBCC standard documentation: Changes are included at the relevant clauses above		
<u>SECTION B: JBCC PRELIMINARIES</u>		
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
42	B1.1 Definitions and interpretation	Item
<u>B2.0 DOCUMENTS</u>		
43	B2.1 Checking of documents	Item
44	B2.2 Provisional bills of quantities	Item
45	B2.3 Availability of construction documentation	Item
46	B2.4 Interests of agents	Item
47	B2.5 Priced documents	Item
48	B2.6 Tender submission	Item
Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Independent Development Trust Tender Form" (see Returnable Schedules)		
<u>B3.0 THE SITE</u>		
49	B3.1 Defined works area	Item
50	B3.2 Geotechnical investigation	Item
51	B3.3 Inspection of the site	Item
Tenderers shall complete the Site Inspection Certificate included in the tender documents (refer Returnable Schedules) and return the same with the tender submission.		
52	B3.4 Existing premises occupied	Item
53	B3.5 Previous work - dimensional accuracy	N/A
54	B3.6 Previous work - defects	N/A
55	B3.7 Services - known	Item
56	B3.8 Services - unknown	Item
57	B3.9 Protection of trees	Item
58	B3.10 Articles of value	Item
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59	B3.11 Inspection of adjoining properties	Item	
	<u>B4.0 MANAGEMENT OF CONTRACT</u>		
60	B4.1 Management of the works	Item	
61	B4.2 Programme for the works	Item	
62	B4.3 Progress meetings	Item	
63	B4.4 Technical meetings	Item	
64	B4.5 Labour and plant records	Item	
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>		
65	B5.1 Samples of materials	Item	
66	B5.2 Workmanship sample	Item	
67	B5.3 Shop drawings	N/A	
68	B5.4 Compliance with manufacturer's instructions	Item	
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>		
69	B6.1 Deposits and fees	Item	
70	B6.2 Enclosure of the works	Item	
71	B6.3 Advertising	Item	
72	B6.4 Plant, equipment, sheds and offices	Item	
73	B6.5 Main notice board	Item	
74	B6.6 Subcontractors' notice board	Item	
	<u>B7.0 TEMPORARY SERVICES</u>		
75	B7.1 Location	Item	
76	B7.2 Water	Item	
77	B7.3 Electricity	Item	
78	B7.4 Telecommunication facilities	Item	
79	B7.5 Ablution facilities	Item	
	<u>B8.0 PRIME COST AMOUNTS</u>		
80	B8.1 Responsibility for prime cost amounts	Item	
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
81	B9.1 General attendance	Item	
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82	B9.2 Special attendance	Item
83	B9.3 Commissioning - fuel, water and electricity	Item
	<u>B10.0 FINANCIAL ASPECTS</u>	
84	B10.1 Statutory taxes, duties and levies	Item
85	B10.2 Payment for preliminaries	Item
86	B10.3 Adjustment of preliminaries	Item
87	B10.4 Payment certificate cash flow	Item
	<u>B11.0 GENERAL</u>	
88	B11.1 Protection of the works	Item
89	B11.2 Protection / isolation of existing / sectionally occupied works	Item
90	B11.3 Security of the works	Item
91	B11.4 Notice before covering work	Item
92	B11.5 Disturbance	Item
93	B11.6 Environmental disturbance	Item
94	B11.7 Works cleaning and clearing	Item
95	B11.8 Vermin	Item
96	B11.9 Overhand work	Item
97	B11.10 Instruction manuals and guarantees	Item
98	B11.11 As built information	Item
99	B11.12 Tenant installations	N/A
	<u>B12.0 SCHEDULE OF VARIABLES</u>	
	<u>B12.1 Pre-tender information:</u>	
	Information necessary for making choices and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available. Where any item is not relevant to this specific contract, such item is marked N/A (signifying "Not Applicable").	
	12.1 PRE TENDER INFORMATION 12.1.1 Provisional Bills of Quantities [2.2] The quantities are provisional YES	
	12.1.2 Availability of construction documentation [2.3] Construction of documentation is complete YES	
	12.1.3 Interest of agents [2.4] Details: N/A	
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12.1.4 Defined works area [3.1] Details: 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 at the compulsory site inspection meeting if applicable or on handing over of the site.

12.1.5 Geotechnical investigation [3.2] Details: The report is annexed to this document.

12.1.6 Existing premises occupied [3.4] Specific requirements: The contractor, where executing repairs and renovations to existing classroom blocks that are in use and occupied, shall be limited to executing works in three classrooms at any given time. These classrooms shall be completed to the stage of first delivery before further commencing execution of works on other existing classrooms. The contractor shall make provision in his program for relocating the occupants of the building to completed sections before commencement with work on subsequent sections. The contractor shall in liaison with the occupants and as directed by the principal agent, move, temporarily store, protect, clean and later place all loose furniture and fittings, equipment, etc in their original position as necessary for the execution of the works. The contractor shall provide, maintain and remove on completion a temporary container for the proper storage of furniture, etc of at least three classrooms during the execution of the works.

12.1.7 Previous work - dimensional accuracy [3.5] Details: N/A

12.1.8 Previous work - defects [3.6] Details: N/A

12.1.9. Services - known [3.7] Details: Existing known services on the site are shown on drawings or will be pointed out on the site by the principal agent.

12.1.10 Protection of trees [3.9] Specific requirements:

12.1.11 Inspection of adjoining properties [3.11] Specific requirements:

12.1.12 Enclosure of the works [6.2] Specific requirements:

12.1.13 Offices [6.4.3] Specific requirements: The office accommodation for meetings held on site shall be insulated and ventilated, provided with electric lighting and fitted with suitable table, chairs, etc to accommodate at least twelve people.

12.1.14 Main notice board [6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.

12.1.15 Subcontractors' notice board [6.6] Specific requirements: NO

12.1.16 Water [7.2] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO

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100	12.1.17 Electricity [7.3] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO	
	12.1.18 Telecommunications [7.4] Telephone YES Facsimile	
	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 [9.2] Subcontractor (1) details: N/A Subcontractor (2) details: N/A Subcontractor (3) details: N/A Subcontractor (4) details: N/A	
	12.1.22 Protection of works [11.1] Specific requirements:	
	12.1.23 Disturbance [11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent. Noise and dust due to repairs and renovations to existing classrooms, etc shall be contained within the areas executed at any one time and workers shall not disturb occupants of adjoining classrooms, etc.	
	12.1.24 Environmental disturbance [11.6] Specific requirements:	
	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 intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent	Item
	C2 GENERAL PREAMBLES The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, 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	Item
102	C3 TRADE NAMES 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 If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for	Item
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103	C4 IMPORTED MATERIALS AND EQUIPMENT Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment (DPW23EC) to be completed by tenderer) Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)	N/A
104	C5 HIV/AIDS AWARENESS It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items C5.1 to C5.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (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	Item
105	C5.1 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	Item
106	C5.2 AWARENESS WORKSHOPS Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification	Item
107	C5.3 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	Item
108	C5.4 ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification	Item
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		Item	Amount
109	<p>C5.5 MONITORING 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><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p><u>Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</u></p>		
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SECTION NO. 2

ECD CLASSROOM

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 1</u> <u>FOUNDATIONS</u> <p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition).</p> <p>The nature of the ground is assumed to be loose sandy material, therefore earth, but possibly interspersed with hard rock or soft rock.</p> <p>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.</p> <p><u>Carting away of excavated material:</u></p> <p><u>Nature of ground:</u></p> <p><u>SITE CLEARANCE ETC</u></p> <p><u>Site clearance:</u></p> <p>1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.</p> <p><u>EXCAVATION, FILLING, ETC</u></p> <p><u>Excavation in earth not exceeding 2m deep:</u></p> <p>2 Trenches.</p> <p>3 Holes.</p> <p><u>Extra over trench and hole excavations in earth for excavation:</u></p> <p>4 Soft rock.</p> <p>5 Hard rock.</p> <p><u>Extra over all excavations for carting away:</u></p> <p>6 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.</p> <p><u>Earth filling with approved material supplied and carted onto site by the Contractor, compacted to 98% Mod. AASHTO density:</u></p> <p>7 Under floors, pavings, etc.</p>				
	m ²	399		
	m ³	49		
	m ³	1		
	m ³	7		
	m ³	12		
	m ³	23		
	m ³	21		
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		Unit	Quantity	Rate	Amount
	<u>Imported filling G5 approved material supplied and onto site by the Contractor, compacted to 98% Mod. AASHTO density:</u>				
8	Under floors, pavings, etc.	m ³	25		
	<u>Risk of collapse of excavations:</u>				
9	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	138		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density:</u>				
10	Backfilling to trenches, holes, etc.	m ³	16		
	<u>Coarse river sand filling supplied by the contractor compacted to 98% Mod. AASHTO maximum density:</u>				
11	Under floors etc.	m ³	8		
	<u>Compaction of surfaces:</u>				
12	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 98% Mod AASHTO density.	m ²	139		
	<u>Prescribed density tests on filling:</u>				
13	Modified AASHTO Density test.	No	5		
	<u>SOIL POISONING</u>				
	<u>Approved weedkiller mixed and applied in accordance with manufacturers instructions:</u>				
14	Under floors.	m ²	139		
	<u>CONCRETE.</u>				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>10 Mpa/19mm Concrete</u>				
15	Surface blinding under footings and bases (Provisional).	m ³	2		
	<u>15 Mpa/19mm Concrete</u>				
16	V-shape Aprons and water channels.	m ³	6		
	<u>REINFORCED CONCRETE</u>				
	<u>30 MPa/19mm Concrete:</u>				
17	Bases.	m ³	1		
18	Strip footing.	m ³	12		
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ECD CLASSROOM

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FOUNDATIONS

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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<p>The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition).</p> <p><u>Cost of tests:</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Representative/Agent. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Representative/Agent. (Test cubes are measured separately).</p> <p><u>Formwork:</u></p> <p>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.</p> <p>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.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p>				
<u>REINFORCED CONCRETE</u> <u>25 MPa/19mm Concrete:</u>				
1	Surface beds etc	m ³	19	
<u>FINISHING TOP SURFACES OF CONCRETE.</u> <u>Finishing top surfaces of concrete smooth with power float:</u>				
2	Surface beds etc.	m ²	100	
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	Unit	Quantity	Rate	Amount
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
3 Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).	Sets	5		
<u>ROUGH FORMWORK.</u>				
<u>Rough formwork to sides:</u>				
4 Surface bed etc	m ²	6		
5 Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	32		
<u>MOVEMENT JOINTS ETC</u>				
<u>One layer two-ply asphaltic waterproofing membrane with fibre felt carrier between horizontal concrete and brick surfaces, including cement mortar bed:</u>				
6 Not exceeding 300mm wide.	m	37		
<u>Expansion joints with approved joint filler between vertical concrete and brick surfaces:</u>				
7 10mm Joints not exceeding 300mm high	m	41		
<u>REINFORCEMENT (PROVISIONAL).</u>				
<u>Mild steel reinforcement to structural concrete work:</u>				
8 12mm Diameter bars.	Tonnes	1,62		
9 10mm Diameter bars.	Tonnes	1,60		
10 8mm Diameter bars.	Tonnes	2,54		
<u>High tensile steel reinforcement to structural concrete work:</u>				
11 20mm Diameter bars.	Tonnes	1,52		
12 16mm Diameter bars.	Tonnes	1,10		
13 12mm Diameter bars.	Tonnes	1,40		
14 10mm Diameter bars.	Tonnes	1,10		
<u>Fabric reinforcement:</u>				
15 Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	163		
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SECTION NO. 2**ECD CLASSROOM****BILL NO. 2****CONCRETE, FORMWORK AND REINFORCEMENT****COLLECTION**

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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 3</u> <u>PRECAST CONCRETE</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities. <u>PAVING ETC</u> <u>BOND AND INTERLOCKING CONCRETE BLOCK PAVERS:</u> <u>Precast concrete (25MPa) finished smooth on exposed surfaces including bedding, jointing and pointing.</u>				
1	60mm Grey concrete pavers random pattern to the play area to 2.5% falls.	m ²	80	
<u>PRECAST CONCRETE KERB:</u> <u>Precast concrete (25MPa) precast concrete kerb.</u>				
2	60mm x 80mm wide x 1000mm long kerb.	m	28	
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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 4</u> <u>MASONRY</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>BRICKWORK (CPAP Workgroup No.116)</u> <u>Sizes in descriptions:</u> Where sizes in descriptions are given in brick units, 'one brick' shall represent the length and 'half brick' the width of a brick. <u>Hollow walls etc:</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. <u>Face bricks:</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. <u>Pointing:</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc. <u>Brickwork of NFXE bricks (12 MPa nominal compressive strength) in Class I mortar in loadbearing walls, etc.:</u> <u>BRICKWORK IN SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar:</u>				
1	Half brick walls.	m ²	14	
2	One brick walls.	m ²	96	
3	One brick walls in beamfilling.	m ²	28	
<u>BRICKWORK SUNDRIES</u> <u>Brickwork sundries:</u> <u>Joint forming material in movement joints:</u>				
4	12mm Bitumen impregnated fibre board built in vertically through brick walls.	m ²	36	
<u>Brickwork reinforcement:</u>				
5	75mm Wide reinforcement built in horizontally.	m	145	
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		Unit	Quantity	Rate	Amount
6	150mm Wide reinforcement built in horizontally.	m	72		
	<u>Precast concrete lintels:</u>				
7	110 x 75mm Lintels in lengths not exceeding 3000mm.	m	14		
	<u>Cramps, ties, etc:</u>				
8	30 x 2mm Galvanized wall tie 500mm long with one end shot pinned to concrete and other end built into brickwork.	No	9		
	<u>Air bricks etc:</u>				
9	230 x 160mm terracotta air brick.	No	12		
	<u>FACE BRICKWORK</u>				
	<u>Satin facebrick dado clay face bricks (FBS) prime cost of R5800.00 excluding VAT delivery to site pointed with flush horizontal and vertical joints:</u>				
10	Extra over brickwork for face brickwork internally.	m ²	14		
11	Extra over brickwork for face brickwork externally.	m ²	124		
12	Extra over brickwork for brick-on-end soldier course lintel pointed on face and 115mm soffit.	m	13		
13	Extra over brickwork cill brick-on-end soldier course lintel pointed on face and 115mm to bottom of window.	m	13		
	<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>				
	<u>'Everite Nutec' window sills in single lengths not exceeding 3600mm, bedded in class I mortar including fixing lugs screwed to underside with self tapping screws:</u>				
14	15 x 150 mm Wide sills set flat and slightly projecting.	m	13		
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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 5</u> <u>WATERPROOFING</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>One layer of 375 micron embossed damp proof course:</u>				
1 In walls.	m ²	19		
<u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive':</u>				
2 Under surface beds.	m ²	277		
3 Bitumen waterproofing to walls.	m ²	168		
<u>"abe Thioflex 600" SABS 110-1973" two - part polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
4 10 x 20 mm In saw cut joints in floors	m	100		
5 6 x 12mm In expansion joints in floors including raking out expansion joint filler as necessary.	m	68		
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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 6</u> <u>ROOF COVERINGS</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>GALVANISED ROOF SHEETING AND ACCESSORIES</u> <u>Saflok 700 AZ150 G550 interlocking roof sheeting with Z275 spelter to both sides, fixed to timber intermediate purlins, secured with soflok 700 clip screws fixed to purlins as per manufacture recommendation and specifications with factory pre-painted factory finish.</u>				
1	m ²	222		
<u>RIDGE CAPPING.</u> <u>AG150 G550 Zincalume ridge capping with broad flute closurers to suit roof profile.</u>				
2	m	14		
3	m	14		
<u>ROOF INSULATION.</u> <u>Heavy industrial grade grammage double sided reflective foil laminate comprising two layers of aluminium foil, one layer reinforcing scrim, two layers kraft paper and three layers polyethelene:</u>				
4	m ²	189		
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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY</u> 'The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual 'THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES' issued by the National Timber Research Institute and the Institute for Timber Construction'. All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used. <u>Proprietary products in descriptions:</u> <u>Prefabricated roof trusses:</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>Joinery:</u> <u>ROOFS ETC</u> <u>Sawn softwood:</u>				
1	m	43		
2	m	28		
3	m	157		
4	No	24		
<u>Sundries:</u> 5 MiTek® eCo hurricane clip fixed using Permfix nails or bolts through pre-drilled holes. 6 Fix only bolt through average 50mm softwood including drilling hole. <u>Laminated S. A. pine:</u>				
7	m	28		
8	m	28		
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	Unit	Quantity	Rate	Amount
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>				
<u>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.</u>				
<u>Plate nailed timber roof truss construction:</u>				
9 Double pitched roof truss 7476mm span between plates to 25 degree pitch with 600mm eaves overhang both ends.	No	16		
10 Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's instructions.	Item			
<u>EAVES, VERGES, ETC</u>				
<u>Pressed fibre-cement:</u>				
11 15 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	42		
12 85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	21		
<u>FRAMED FRAMES ETC</u>				
<u>Wrought meranti:</u>				
13 70 x 90mm Rebated and angle rounded door frames plugged.	m	18		
14 19mm Quadrant bead planted on.	m	36		
15 Door with frame to suit 44mm thick door size 813 x 2032 over formed of 70 x 90mm rebated and angle rounded frame and transome plugged and with 10 x 10mm glazing beads planted on..	No	2		
Carried to Collection			R	

		Unit	Quantity	Rate	Amount
	<u>BEADS, ARCHITRAVES, ETC</u>				
	<u>Wrought meranti:</u>				
16	Quadrant Architrave fixed.	m	45		
17	19 x 70mm Skirting with arris rounded top edge, selected for matching colour and fixed to walls with steel nails including 19mm quadrant bead planted on.	m	45		
	<u>Sundries:</u>				
18	38 x 76 mm Chamfered and grooved weatherboard fixed in and including groove or rebate in underside of door .	m	2		
	<u>FITTINGS</u>				
	<u>WHITE BOARDS</u>				
	<u>Vitrex Execuboard magnetic whiteboard with aluminium surround fixed 3 no. times at the top and bottom with aluminium brackets, sleeve and screw.</u>				
19	2400 x 1140mm Whiteboards.	No	1		
	<u>PINNING BOARDS</u>				
	<u>"Flortime Primer" pinning boards.</u>				
20	9mm Pinning boards size 4900 x 1200mm high glued to backboards.	No	1		
	<u>JOINERY FITTINGS</u>				
	<u>Cupboards. working tables, shelves and benches, etc</u>				
21	Worktop open under size 3500 x 600 x 900mm high with 30x30x2.5 tubular steel frames, providing foot rest, fixed to wall with screws. As per architects specifications.	No	1		
22	Wall shelving size 3500 x 305 x 619mm high fixed to wall with screws. As per architects specifications.	No	1		
23	Magazine rack size 3750 x 247 x 1100mm high fixed to wall with flathead srews. As per architects specification.	No	1		
24	Book shelving with slopping back and 42 pigeon holes size 3500 x 350 x 1100mm high fixed to wall with srews. As per architects specifications.	No	1		
25	Sink cupboard size 1600 x 500 x 750mm high fixed to wall with srews. As per architects specifications.	No	1		
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SECTION NO. 2

ECD CLASSROOM

BILL NO. 7

CARPENTRY AND JOINERY

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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 8</u> <u>CEILINGS PARTITIONS AND ACCESS FLOORING</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>Proprietary products in descriptions:</u> <u>Descriptions:</u> <u>NAILED UP CEILINGS</u> <u>6.4mm 'Rhino' gypsum plasterboard with H-type pressed steel jointing strips.</u>				
1	Ceilings including 38 x 50mm sawn softwood banderling at 400mm centres with cross banderling at joints, ends of sheets and at light fittings, etc. (elsewhere measured)	m ²	76	
2	Extra over ceiling 900 x 900mm trap door including wrought softwood rebated framing with one 50 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening.	No	1	
<u>Gypsum plasterboard cornice, or equal approved, plugged to walls including mitres, etc.:</u>				
3	75mm Coved cornice.	m	47	
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 9</u> <u>FLOOR COVERINGS</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>Proprietary products in descriptions:</u> <u>Cleaning:</u> <u>VINYL FLOOR COVERINGS, WALL LININGS, ETC.</u> <u>300 x 300 x 2,5mm semi-flexible reinforced vinyl quartz floor tiles, or equal approved, laid to manufacturers specification in patterns to colour of Architects choice:</u>				
1	m ²	76		
<u>POLISH, SEALERS, ETC</u> <u>Clean by stripping and sealing and apply three coats water based copolymer emulsion or other approved sealer:</u>				
2	m ²	76		
3	m ²	76		
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	Unit	Quantity	Rate	Amount
<u>Sign plates:</u>				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded Fixing				
Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories				
7 152 x 152 x 2mm Anodised silver engraved sign with Fire Extinguisher Pictogram E06, fixed to wall or door (Union AL5066E-06/2AS).	No	1		
8 152 x 152 x 2mm Anodised silver engraved sign with offices and stores Pictogram E06, fixed to wall or door.	No	2		
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SECTION NO. 2

ECD CLASSROOM

BILL NO. 10

IRONMONGERY

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<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 12</u> <u>PLASTERING</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>SCREEDS</u> <u>Screeds on concrete:</u> 1 25mm Thick on floors and landings.				
	m ²	139		
<u>INTERNAL PLASTER</u> <u>Cement plaster on brickwork:</u> 2 On walls. 3 On narrow widths.				
	m ²	73		
	m ²	2		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 13</u> <u>PLUMBING AND DRAINAGE</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>The Tenderer is referred to the relevant Clauses in the separate document OW371 and to the Supplementary Preambles which are incorporated in this Bill.</u>				
1 Seamless 155 x 100 x 115mm aluminium ogee gutter with baked enamel finish fixed with concealed brackets, all to suppliers specification.	m	64		
2 Extra over eaves gutter for stop end.	No	12		
3 Extra over eaves gutter for angle.	No	12		
4 Extra over 150mm eaves gutter for outlet for 80mm pipe.	No	12		
<u>Rainwater disposal:</u> <u>Aluminium rainwater downpipes.</u>				
5 100 x 75mm fluted aluminium downpipes with baked enamel finish fixed as per suppliers detail to water tanks.	m	36		
6 Extra over 80mm rainwater pipe for shoe.	No	6		
<u>SANITARY FITTINGS.</u> <u>"Franke" Kitchen Systems (pty) t/a citmetal.</u>				
7 'Model' DTE100E (code 311000) drop-on single end bowl sink and drainer 1000 x 457mm wide with bowl of stainless steel type 304 (18/10) fitted in cupboard top (cupboard be priced here as well). See architect detail.	No	1		
<u>FIRE APPLIANCES ETC.</u> <u>'Chubb':</u>				
8 4.5 kg Dry chemical fire extinguisher including backboard, plugged and screwed to wall.	No	1		
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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>ECD CLASSROOM</u> <u>BILL NO. 15</u> <u>PAINTWORK</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>Paint Specifications</u> All painting shall be done in accordance with Plascon specifications. <u>PAINTWORK</u> <u>ON FLOATED PLASTER</u> <u>Prepare surfaces and remove all loose material, apply one coat "Professional Plaster Primer" (Code PP 700) and two coats "Polvin Super Acrylic" (EPL).</u> 1 On ceilings. m ² 76 <u>Prepare surfaces and remove all loose material, apply one coat "Professional Plaster Primer" (Code PP 700) thin 20% with "Polycell" mineral turpentine (Code AXH 1) and two coats "Professional Pure Acrylic Low Sheen" (Code PEM 1000) paint:</u> 2 On internal walls. m ² 73 <u>ON FIBRE-CEMENT, ETC.</u> <u>Prepare surfaces and remove all loose material, apply one coat "Universal" undercoat (Code UC1) and two coats "Professional Eggshell Enamel" paint.:</u> 3 On window cills not exceeding 300mm wide. m ² 5 <u>ON WOOD</u> <u>One coat oil wood primer:</u> <u>Prepare surfaces with one coat "Lacquer Thinners (Code ILS 1), one coat "Woodcare Knot Seal" (Code PK 2), one coat "Woodcare Pretreatment" (Code WWP 1) and remove all loose material, apply one coat "Wood Primer" (Code UC 2) and two coats "Velvagio Satin" (Code VLO) paint:</u> 4 On doors. m ² 3 5 On door frames. m ² 1				
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SECTION NO. 2

ECD CLASSROOM

BILL NO. 15

PAINTWORK

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3	PRECAST CONCRETE	2-10	
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8	CEILINGS PARTITIONS AND ACCESS FLOORING	2-21	
9	FLOOR COVERINGS	2-22	
10	IRONMONGERY	2-25	
11	METALWORK	2-26	
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13	PLUMBING AND DRAINAGE	2-28	
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SECTION NO. 3

PIT TOILET BLOCK

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 1</u> <u>EARTHWORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <p><u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p><u>Nature of material to be excavated:</u> The material to be excavated is assumed to be predominantly of a composition that will allow excavation in 'earth' as specified, but including a percentage of excavation in 'soft rock' and 'hard rock'.</p> <p><u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.</p> <p><u>Dewatering of excavations:</u> The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise. Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water</p> <p><u>Density testing on filling:</u> Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.</p> <p><u>Imported fill:</u> 'Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively'</p>				
Carried to Collection			R	

	Unit	Quantity	Rate	Amount
<u>EXCAVATION, ETC</u>				
<u>Site clearance etc:</u>				
1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m ²	59		
<u>Excavation in earth not exceeding 2m deep:</u>				
2 Trenches.	m ³	2		
3 Reduced levels under floors.	m ³	3		
<u>Excavation in earth exceeding 2m and not exceeding 4m deep:</u>				
4 Toilet pit.	m ³	35		
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
5 Soft rock.	m ³	5		
6 Hard rock.	m ³	7		
<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 located by the contractor.	m ³	45		
<u>Risk of collapse of excavations:</u>				
8 Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	6		
9 Sides of trench and hole excavations exceeding 1,5m deep.	m ²	47		
<u>Keeping excavations free of water:</u>				
10 Keeping excavations free of water including subterranean sources.	Item			
<u>EARTH FILLING, ETC.</u>				
<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 95% Mod. AASHTO density:</u>				
11 Backfilling to trenches, holes, etc.	m ³	2		
12 Under floors, steps, pavings, etc.	m ³	5		
<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u>				
13 Under floors, steps, pavings, etc.	m ³	4		
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SECTION NO. 3

PIT TOILET BLOCK

BILL NO. 1

EARTHWORKS

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
<p>For Trade Preambles refer to Department of Public Works 'PW 371' for Specifications and methods to be used and for the full descriptions of material and work to be done in this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Architect. The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Architect. (Test cubes are measured separately).</p> <p><u>Formwork:</u></p> <p>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.</p> <p>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.</p> <p>Formwork to soffits of solid slabs etc., shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>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.</p>				
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	Unit	Quantity	Rate	Amount
<u>CONCRETE, FORMWORK & REINFORCEMENT</u>				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>20 Mpa/19mm concrete</u>				
1 Aprons.	m ³	4		
2 Ramps	m ³	3		
3 Surface beds.	m ³	6		
<u>REINFORCED CONCRETE</u>				
<u>25 Mpa / 19mm Concrete:</u>				
4 Strip footings.	m ³	4		
5 Slabs.	m ³	6		
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
6 Surface beds, slabs, etc.	m ²	45		
<u>Sundries:</u>				
7 Form half round channel sinking size 110mm wide x 50mm deep in top of slab.	m	6		
<u>Broom swept finishing on top surfaces of concrete to an evenly ribbed non-slip:</u>				
8 Surface beds, slabs, etc to falls and currents.	m ²	51		
<u>CONCRETE TESTS</u>				
<u>Test blocks:</u>				
9 Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).	No	3		
<u>MOVEMENT JOINTS ETC</u>				
<u>Vertical construction joints through concrete including thick cement slurry to one face:</u>				
10 Surface beds not exceeding 300mm thick.	m	12		
11 10mm Joints not exceeding 300mm high (Provisional).	m	9		
12 10 x 10mm In vertical expansion joints between concrete and brick surfaces, including raking out expansion joint filler as necessary (Provisional).	m	4		
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		Unit	Quantity	Rate	Amount
<u>FORMWORK</u>					
<u>General Formwork:</u>					
13	Sides of edges, risers, ends and reveals not exceeding 300mm high.	m	18		
<u>Permanent Formwork:</u>					
14	Soffit of slab over pit.	m ²	15		
<u>Extra on permanent formwork for boxing or blocking in or boxing out to form:</u>					
15	150mm Diameter opening through 200mm thick slab.	No	4		
16	450mm Diameter opening through 200mm thick slab.	No	3		
<u>Fabric reinforcement:</u>					
17	Ref 193 fabric reinforcement in concrete surface beds, slabs, etc.	m ²	22		
<u>Mild steel rod reinforcement:</u>					
18	10mm Diameter bars	Tonnes	1,10		
19	8mm Diameter bars.	Tonnes	1,24		
<u>High tensile steel rod reinforcement:</u>					
20	10mm Diameter rods to slabs, beams, columns, bases, etc.	Tonnes	1,10		
21	12mm Diameter rods to slabs, beams, columns, bases, etc.	Tonnes	1,50		
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SECTION NO. 3**PIT TOILET BLOCK****BILL NO. 2****CONCRETE, FORMWORK AND REINFORCEMENT****COLLECTION**

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 3</u> <u>PRECAST CONCRETE</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities. <u>CHAMBER COVERS</u> <u>Precast concrete inspection chamber covers:</u>				
1	No	2		
750mm Diameter concrete manhole ring 1000mm long set vertically on prepared filling (else where measured) and filling with mass concrete (else where measured) as base for veranda pole else where measured)				
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<u>BRICKWORK IN SUPERSTRUCTURE</u>					
<u>BRICKWORK SUNDRIES</u>					
<u>FACE BRICKWORK</u>					
<u>Satin facebrick dado clay face brick and allow the prime cost amount of R 5800.00 (Five thousand Eight hundred rands excluding VAT) nett per thousand for external face bricks, supplied and delivered to site and add for taking delivery, storage, waste, profit, building in and pointing with square recessed horizontal and vertical joints:</u>					
2	Fair raking cutting.	m	15		
3	One Face brickwork to walls.	m ²	152		
<u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u>					
4	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	15		
5	220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projected soffit including cutting and fitting between reveals and splay cutting brickwork under.	m	2		
6	Form weep hole size 220 x 75mm high through 220mm facebrick wall including making good to surround.	No	1		
<u>FACE BRICKWORK COPING, SILLS, ETC</u>					
7	Coping on top of one brick wall.	m	13		
<u>Air bricks etc:</u>					
8	230 x 160mm Cement vermin proof air brick.	No	5		
<u>Brickwork reinforcement</u>					
9	75mm Wide reinforcement built in horizontally (provisional).	m	95		
10	150mm Wide reinforcement built in horizontally (provisional).	m	52		
<u>Prestressed fabricated lintels:</u>					
11	100 x 70mm Lintels in lengths not exceeding 3 metres long	m	15		
<u>Galvinised wire ties, etc</u>					
12	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and the other end built into brickwork.	No	8		
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SECTION NO. 3

PIT TOILET BLOCK

BILL NO. 4

MASONRY

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 5</u> <u>WATERPROOFING</u> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u> 1 Under surface beds. m ² 6 <u>One layer of 375 micron embossed dampcourse waterproof sheeting below walls, sills, etc:</u> 2 Below walls, sills, etc. m ² 3 <u>JOINT SEALANTS ETC</u> <u>Clear Neutral silicone sealant:</u> 3 In joint sealing and pointing all round external window and door frames. m 5 <u>Polysulphide sealant including backing cord, bond breaker, primer, etc</u> 4 10 x 10mm in expansion joints in floors m 15 <u>PREAMBLES</u> <p>For Trade Preambles refer to Department of Public Works 'PW 371' for Specifications and methods to be used and for the full descriptions of material and work to be done in this bill</p>				
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<u>SUPPLEMENTARY PREAMBLES</u>				
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.				
<u>DAMPPROOFING ON FLOORS</u>				
<u>One layer of 250 micron Consol Plastics Gunplas</u>				
<u>Black waterproof sheeting sealed at laps with</u>				
<u>Gunplas Pressure Sensitive Tape:</u>				
5 Under surface beds.	m ²	22		
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WATERPROOFING

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 6</u> <u>ROOF COVERINGS</u> <u>PREAMBLES</u> For Trade Preambles refer to Department of Public Works 'PW 371' for Specifications and methods to be used and for the full descriptions of material and work to be done in this bill <u>SUPPLEMENTARY PREAMBLES</u> Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect. <u>CORRUGATED METAL SHEETING AND ACCESSORIES</u> <u>CUSTOM-ORB SHEETING</u> Supplementary Preambles: Sheeting: 'Custom-Orb' profile roof sheeting shall be interlocking pierced-fix roll-formed in continuous lengths and cut to length by a pneumatic cut-off process. Galvanized steel shall be certified and comply with ASTM A 653 SG 550 (3T) and be finished as described. A certificate verifying compliance shall be issued by the manufacturer, 'Brownbuilt Metal Sections'. Fixing: 'Custom-Orb' profile roof sheeting sheets shall be fixed to every purlin by means of 14 no. Topspeed Hex Head screws per sheet, 50mm long for steel purlins or 65mm long for imber purlins and shall incorporate 26mm diameter bonded washers. Side-lap stitching shall be effected at no more than 600mm centres with 25mm long Topspeed Hex Head screws. Side cladding shall be fixed by means of 14 no. Hex Head screws per sheet, 25mm long for steel girts or 50mm long for timber girts and shall incorporate 19mm diameter bonded washers.				
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	Unit	Quantity	Rate	Amount
<p>Flashings: The paint finish shall be epoxy primer of 4-6 microns with a top coat 'Classicoat Silicone Polyester' of at least 22 microns and a half coat 'Classicoat Grey' to the reverse side (Colour to be approved by Architect). Flashings shall be approved by 'Brownbuilt Metal Sections' and fixed to the sheeting with S1 clips to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind-driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from 'Brownbuilt Metal Sections'. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel spatter from penetrating colour coated areas. Flashing finish must match and be the same as the roof sheeting it follows. Flashing thickness must be the same or greater than that of the roof sheeting it follows, based on available thickness options.</p> <p>Guarantee: The manufacturer shall comply with ISO9002 Quality Management System. Sheeting shall be laid in strict accordance with the manufacturer's specifications by an approved contractor.</p> <p>Erection, handling and storage: 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. The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity. The contractor shall ensure that all materials used on site for cladding, etc are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.</p>				
Carried to Collection				
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	Unit	Quantity	Rate	Amount
<p>Cleaning, etc: All debris, swarf, etc. arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners and sealants, mandrels from pop rivets, off-cuts of flashings and sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, down pipes, etc.</p> <p><u>Zincalume roof sheeting on 76 x 50mm timber purlins at 1200mm centres on 152 x 38mm timber rafters at 15 degree pitch.</u></p>				
1 Roof covering with pitch not exceeding 15 degrees, in transportable lengths not exceeding 20m.	m ²	29		
<u>Flashings:</u>				
2 Barge flashing 462mm girth, three times bent along girth and notched on site to suit roof profile (Code FS4).	m	5		
3 Roll top ridge capping 462mm girth, four times bent along girth and notched on site to suit roof profile (Code FSL065).	m	6		
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SECTION NO. 3**PIT TOILET BLOCK****BILL NO. 6****ROOF COVERINGS****COLLECTION**

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY</u>				
<p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary products in descriptions:</u>				
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p>				
<u>Prefabricated roof trusses:</u>				
<p>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.</p>				
<u>Joinery:</u>				
<p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.</p>				
<p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p>				
<u>Fixing:</u>				
<p>All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.</p>				
<p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p>				
<p>Where items are described as 'bolted' the bolts have been measured elsewhere.</p>				
<u>ROOFS ETC</u>				
<u>Sawn softwood:</u>				
1	m	22		
2	m	12		
3	m	29		
Carried to Collection			R	

		Unit	Quantity	Rate	Amount
	<u>Wrought softwood:</u>				
4	50 x 76mm Bearer fascia support (Provisional)	m	6		
	<u>Sundries:</u>				
5	MiTek eCo hurricane clip fixed using Permfix nails or bolts through pre-drilled holes.	No	102		
6	Fix only bolt through average 38mm softwood including drilling hole	No	22		
	<u>Laminated S.A. pine:</u>				
7	75 x 150mm beam	m	25		
	<u>PREFABRICATED ROOF TRUSSES, ETC.</u>				
	<p><u>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturers. Trusses to be a minimum of 1200mm centres and are to support metal roof covering. Ceilings are either gypsum plasterboard or claddit (suspended or fixed). Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the roof truss installation is complete and is for the contractors account.</u></p>				
	<u>Plate nailed timber roof truss construction:</u>				
	<p>Note: Tenderers are referred to the Architects roof plan drawings. Specifications and calculations of prefabricated roof must be supplied by the contractor on award of the contract. Descriptions (prices) shall be deemed to include design.</p>				
8	Mono pitched roof truss 4750mm span between plates to 25 degree pitch with 600mm eaves overhang one	No	4		
9	Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's instructions.	Item			
	<u>EAVES, VERGES, ETC</u>				
	<u>Pressed fibre-cement:</u>				
10	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	10		
	Carried to Collection			R	

		Unit	Quantity	Rate	Amount
11	Extra on last for splay cut end.	No	1		
12	85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	6		
<u>DOORS ETC</u>					
<u>Wrought meranti doors:</u>					
13	44mm Thick, framed, ledged, braced and batten door, formed of 44 x 114mm stiles and top rail, 22 x 114mm middle ledge and braces and 22 x 222mm bottom ledge, the stiles and top rail grooved for and filled in with 22 x 70mm tongued, grooved and V-jointed vertical boarding, with braces brass screwed to every board, size 813 x 2,032mm high.	No	1		
<u>SOLID CORE HARDWOOD DOORS</u>					
<u>44mm solid core hardwood doors with commercial veneer hung to 1.2mm double rebated galvanised pressed metal frame</u>					
14	44mm Door 813 x 900mm high.	No	4		
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PIT TOILET BLOCK

BILL NO. 7

CARPENTRY AND JOINERY

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 8</u> <u>IRONMONGERY</u> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent:</p> <u>Finishes to ironmongery:</u> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CP Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded Fixing</p> <p>Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories. Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories.</p> <u>Hinges:</u> 1 75 x 41mm Double washered solid brass butt hinges. No 10 2 100x 75 mm Stainless steel hinges (Union 8352-100SS) No 10 <u>BATHROOM FITTINGS ETC.</u> <u>Stainless steel 32mm diameter grab rails grade 304 stainless steel:</u> 3 Franke CNTX750, size 750 x 90mm deep grab rails plugged and screwed to wall. No 1 4 Franke CNTX41R, size 127 x 127 x 500mm deep right side rails plugged and screwed to wall. No 1 Carried to Collection				
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IRONMONGERY

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 9</u> <u>METALWORK</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities. <u>SUPPLEMENTARY PREAMBLES</u> Descriptions Descriptions of bolts shall be deemed to include nuts and washers. Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as 'holed for bolt(s)' shall be deemed to exclude the bolts unless otherwise described NOTE: All steel will be Hot dipped galvanised unless otherwise stated. <u>GALVANIZED STEEL WINDOW INCLUDING FRAMES</u> <u>'FX7' Industrial type window frames fitted with burglar bars to all opening sections at factory:</u> 1 Window type size 533 x 654 mm high, with MBP2 burglar bars <u>GALVANIZED GATES</u> <u>Hot Dipped Galvanised Steel Gates:</u> Note: The contractor is to check on site measurements before placing of order. 2 Entrance single gate size 1.040 x 2.125mm high formed of 32 x 32 x 1.6mm hollow square section framing to detail, with VEM 6320 H "Valmatex" expanded metal mesh welded to inside frame, with 12mm solid rods welded horizontally, with stainless steel shackle for locking mechanism, with 38 x 38 x 10mm thick plates as hinges with rounded ends to one side and hole for 18mm diameter pin hung on pair of socketted and pinned hinges with pin 18mm in diameter and bolted to brick wall, with 200mm locking bolt welded on, or other Architect's Drawing No GS/005, attached to these bills of quantities. <u>Hot Dipped Galvanised Steel Panels</u> 3 32 x 32 x 2mm square tube framing Carried to Collection Zizi Primary School (ECD)				
	No	4		
	No	2		
	Kg	35		
			R	

		Unit	Quantity	Rate	Amount
4	4mm Weldmesh wire 50 x 50mm aperture welded to steel frame (Steel frame else where measured)	m ²	4		
5	75mm Outside diameter x 6.51kg/m tubular column 1800mm long with 230 x 230x 5mm wrap over steel base plate welded on to bottom end and fixed to base wall with chemical anchors (elsewhere measured), and closed (cap) top end welded on including setting up in position	No	2		
<u>Sundry Galvanised Steelwork</u>					
Purpose made roof support, columns etc.					
6	75mm Outside diameter x 6.51kg/m tubular column 3.085mm long with 150x 150 x10mm base plate welded on to bottom end having 150 x 3mm thick x 75mm girth channel-shaped bracket eight times holed for bolts (elsewhere measured) welded on including setting up in position and embedding bottom end in concrete.	No	3		
7	75 x 3mm Thick three times bent T-shaped roof truss bracket 375mm girth, three times holed for bolts (Bolt and holes elsewhere measured)	No	2		
<u>Sundries</u>					
8	Bolts	Kg	56		
<u>METALWORK</u>					
<u>Galvinised Mild Steel:</u>					
9	Screw bolts with heads, nuts and washers (fixing elsewhere measured) (Provisional).	Kg	42		
10	50 x 6mm Galvanised mild steel flat bar 600mm long twice holed for bolts and bottom end split and spread for building into brickwork or concrete.	No	4		
<u>The following in Hot Dip Galvanised after fabrication mild steel framed and welded gate including all welding, cutting, drilling and grinding smooth:</u>					
11	Single gate formed of 8 x 44mm steel flat frame welded at angles, divided into three sections with two cross rails, 12mm diameter vertical bars at 70mm centres, hung on pair of socketted and pinned hinges with pin 18mm in diameter and bolted to brick wall and with 200mm locking bolt welded on, to suit clear opening size 1000 x 2200mm high.	No	1		
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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 10</u> <u>PLASTERING</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities. <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>SCREEDS</u> <u>3:1 Cement plaster screeds steel trowelled on concrete:</u>				
1	m ²	23		
25mm thick on floors. Prepare and clean surface and apply thin bed of single component protein free, quick hardening cement based screed, in strict accordance with manufacture's instructions, to form an even surface to receive vinyl tiles (elsewhere measured):				
2	m ²	23		
On new screeded floors (Provisional) <u>Granolithic</u> <u>Untinted granolithic on concrete:</u>				
3	m ²	23		
20mm Thick on thresholds and risers of door thresholds including reedings				
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<u>PIT TOILET BLOCK</u>				
<u>BILL NO. 11</u>				
<u>PLUMBING AND DRAINAGE</u>				
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary products in descriptions:</u>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.				
<u>ALUMINIUM GUTTERS:</u>				
<u>Aluminium gutters.</u>				
1	m	6		
150 x 150mm aluminium gutters.				
2	m	7		
150 x 150mm aluminium gutters down pipes.				
3	No	2		
Extra over eaves gutter for stopped end.				
4	No	2		
Extra over eaves gutter for outlet for 100 x 75mm pipe.				
5	No	2		
Extra over rainwater pipe for bend.				
6	No	2		
Extra over rainwater pipe for shoe.				
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
<u>PVC waste or vent pipes and fittings in black colour:</u>				
7	m	16		
150mm Pipe fixed to walls with brackets.				
<u>Extra for:</u>				
8	No	4		
150mm Bend				
9	No	4		
Whirley bird sewer vent pipe, fixed to 150mm vent pipe.				
<u>Sanitary fittings:</u>				
10	No	4		
VIP pit pedestal with flap fixed to floors with and including three 6mm diameter x 50mm long expansion bolts into silicone.				
11	No	2		
Plastic WHB fixed to walls with long screws and including plumbing pipes connecting to the watertank.				
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SECTION NO. 3

PIT TOILET BLOCK

BILL NO. 11

PLUMBING AND DRAINAGE

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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 12</u> <u>GLAZING</u> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <u>GLAZING TO STEEL WITH PUTTY</u> <u>Clear float 4mm glass:</u>					
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m ²	1		
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<u>SECTION NO. 3</u> <u>PIT TOILET BLOCK</u> <u>BILL NO. 13</u> <u>PAINTWORK</u> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. OW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.</p> <u>SUPPLEMENTARY PREAMBLES</u> <u>Proprietary products in descriptions:</u> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.</p> <p>All work to be executed in strict accordance with the specifications of the paint manufacturer.</p> <p>Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.</p> <u>PAINTWORK, ETC TO NEW WORK</u> <u>ON FIBRE-CEMENT</u> <u>Prepare and apply two coats pure acrylic roof paint on:</u>				
1	Fascias and barge boards.	m ²	5	
<u>ON BRICK SURFACES</u> <u>Clean down with spirits of salts solution and apply two coats silicone-based brick dressing on:</u>				
2	Facings (Internally).	m ²	102	
3	Facings (Externally).	m ²	72	
<u>Prepare and apply one coat wood primer, one undercoat and two coats superior quality eggshell enamel on:</u>				
4	Doors (all surfaces measured).	m ²	13	
5	On windows.	m ²	3	
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SECTION NO. 4

EXTERNAL WORKS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>EXTERNAL WORKS</u>				
<u>BILL NO. 1</u>				
<u>FENCING</u>				
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
<u>FENCING.</u>				
<u>Galvanised steel fencing:</u>				
1 Weldmesh 1.2m high, 50 x 50 x 2.5mm Galvanised.	m	320		
2 Four strands of galvanised, twisted double strand 1.8mm thick wire with three barbs incorporated in twist every 150mm fixed to post with 2.5mm galvanised binding wire. Mechanically strain between straining posts and/or gate and corner posts.	m	1 280		
3 Pedestrian gate size 1.2 x 1.35m wide gate manufactured from 50 x 2.8mm tubular frames with bracing as shown, complete with 2 hinges and bolts to each, barrel bolt to take padlock, as well as a vertical extension 800mm long and 4 tying holes for barbed wire, 100mm diameter straining posts to be provided at both sides of gate with 300 x 300 x 8mm base plate cast into 450 x 450 x 900mm concrete base. Provide 50 x 50 x 2.5mm galvanised weldmesh 1.2m high fixed to gate, stay poles 50mm diameter x 2.8mm bolted to straining posts with 200 x 200 x 6mm base plate cast in 450 x 760 x 600mm concrete base. Base to extend 50mm above ground level.	No	1		
4 100mm Diameter x 3mm galvanised straining post with 300 x 300 x 6mm base plate cast in 450 x 450 x 900mm concrete base. Top of concrete base to be 50mm above ground level. Provide holes for eyebolts and bolts for fixing of anchor post. (bolts elsewhere)	No	36		
5 100mm Diameter x 3mm galvanised gate post with 300 x 300 x 6mm base plate cast in 450 x 450 x 900mm concrete base. Top of concrete base to be 50mm above ground level. Provide holes for eyebolts and bolts for fixing of anchor post. (bolts elsewhere)	No	2		
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		Unit	Quantity	Rate	Amount
6	100mm Diameter x 3mm galvanised corner post with 300 x 300 x 6mm base plate cast in 450 x 450 x 900mm concrete base. Top of concrete base to be 50mm above ground level. Provide holes for eyebolts and bolts for fixing of anchor post. (bolts elsewhere)	No	4		
7	50mm Diameter x 2.8mm galvanised intermediate post cast in 300 x 300 x 900mm concrete base with holes for straining wire.	No	86		
8	50mm Diameter x 2.8mm galvanised stay pole bolted to straining post and other end with 200 x 200 x 6mm base plate cast in 450 x 760 x 600mm concrete base. Top of concrete base to be 50mm above ground. (bolts elsewhere)	No	72		
<u>Bolts :</u>					
9	M10 Straining eye bolt with nut and washer.	No	132		
10	M16 Hinge bolt with nut and washer.	No	98		
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SECTION NO. 4

EXTERNAL WORKS

BILL NO. 1

FENCING

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<u>SECTION NO. 4</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 2</u> <u>TANKS STANDS, WALKWAYS AND PLAY AREA</u> The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition), the Department of Public Works document No. PW 371 Specification of Materials and Methods to be used and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities. <u>Proprietary products in descriptions:</u> Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>SITE CLEARANCE.</u> <u>Site clearance:</u> 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush etc <u>Open face excavation not exceeding 2m deep:</u> 2 Over site to reduce levels and depositing excavated material in prescribed stock piles on site. <u>Extra over excavations in earth for excavation in:</u> 3 Soft rock. 4 Hard rock. <u>COMPACTION.</u> <u>Compaction on surfaces:</u> 5 Compaction of ground surface under walkways including scarify for depth of 150mm, adding suitable material where necessary and compacting to 93% Mod AASHTO dry density. <u>REINFORCED CONCRETE</u> <u>25MPa/19mm Reinforced Concrete:</u> 6 Concrete to walkways, etc in panels between construction joints.				
	m ²	90		
	m ³	27		
	m ³	2		
	m ³	2		
	m ²	90		
	m ³	16		
Carried to Collection			R	

		Unit	Quantity	Rate	Amount
<u>FINISHING TOP SURFACES OF CONCRETE</u>					
<u>Finishing Top Surface of Concrete with a power Float:</u>					
7	Concrete walkways.	m ²	90		
<u>SMOOTH FORMWORK</u>					
<u>Smooth Formwork to Sides:</u>					
8	Edges not exceeding 300mm high.	m	120		
<u>MOVEMENT JOINTS.</u>					
<u>Vertical Joggle Construction Joints Through Concrete Including THICK Cement Slurry to one Face:</u>					
9	10mm Joints not exceeding 300mm high.	m	30		
<u>REINFORCEMENT</u>					
<u>Fabric Reinforcement:</u>					
10	Type 193 fabric reinforcement in concrete walkways.	m ²	90		
<u>Rainwater tanks:</u>					
11	5000 Litre polyethylene rotomoulded horizontal water storage tank complete, size 2510 x 2120 x 1450mm with lid, fitted with and including 15mm brass bibtap (Type 108LK15) with suitable adaptor and setting in position on concrete tankstand and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire embedded into concrete. (Note: tanks to be filled with water before Practical Completion). See attached architect drawings.	No	2		
12	Hole through top of tank lid for 100mm diameter pipe.	No	2		
<u>WOOD CREATION PLAY AREA.</u>					
13	Jungle gym with slide, monkey bars, combo net, bridge, swings, platforms, rope ladder, combination wood and tyre swing set including sandpit. See attached architect drawings	No	1		
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SECTION NO. 4**EXTERNAL WORKS****BILL NO. 2****TANKS STANDS, WALKWAYS AND PLAY AREA****COLLECTION**

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>EXTERNAL WORKS</u> <u>BILL NO. 3</u> <u>COVERED WALKWAYS</u> The Tenderer is referred to the relevant clauses in the separate documents Model Preambles for Trades (2008 Edition). <u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site. <u>Nature of ground:</u> The nature of the ground is assumed to be loose sandy material, therefore earth, but possibly interspersed with hard rock or soft rock. <u>SITE CLEARANCE ETC</u> <u>Site clearance:</u> 1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.				
	m ²	75		
<u>EXCAVATION, FILLING, ETC</u> <u>Excavation in earth not exceeding 2m deep:</u> 2 Trenches.				
	m ³	45		
<u>Earth filling with approved material supplied and carted onto site by the Contractor, compacted to 98% Mod. AASHTO density:</u> 3 Under floors, pavings, etc.				
	m ³	15		
<u>Imported filling G5 approved material supplied and onto site by the Contractor, compacted to 98% Mod. AASHTO density:</u> 4 Under floors, pavings, etc.				
	m ³	18		
<u>Extra over trench and hole excavations in earth for excavation:</u> 5 Soft rock.				
	m ³	2		
6 Hard rock.	m ³	1		
Carried to Collection			R	
Zizi Primary School (ECD)				Development Bank Of Southern Africa

		Unit	Quantity	Rate	Amount
	<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 located by the contractor.	m ³	35		
	<u>Risk of collapse of excavations:</u>				
8	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	30		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density:</u>				
9	Backfilling to trenches, holes, etc.	m ³	12		
	<u>Coarse river sand filling supplied by the contractor compacted to 98% Mod. AASHTO maximum density:</u>				
10	Under floors etc.	m ³	3		
	<u>Compaction of surfaces:</u>				
11	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 98% Mod AASHTO density.	m ²	60		
	<u>Prescribed density tests on filling:</u>				
12	Modified AASHTO Density test.	No	5		
	<u>SOIL POISONING</u>				
	<u>Approved weedkiller mixed and applied in accordance with manufacturers instructions:</u>				
13	Under floors.	m ²	60		
	<u>CONCRETE.</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>20 Mpa/19mm Concrete</u>				
14	Concrete walkway.	m ³	6		
	<u>REINFORCEMENT</u>				
	<u>Fabric Reinforcement:</u>				
15	Type 193 fabric reinforcement in concrete walkways.	m ²	40		
	<u>UNREINFORCED CONCRETE</u>				
	<u>25 Mpa/19mm Mass Concrete</u>				
16	Concrete footing	m ³	5		
	<u>20 Mpa/19mm Concrete</u>				
17	Concrete bases	m ³	1		
	Carried to Collection			R	

		Unit	Quantity	Rate	Amount
18	V-shaped water channels.	m ³	2		
	<u>FINISHING TOP SURFACES OF CONCRETE</u>				
	<u>Finishing Top Surface of Concrete:</u>				
19	Concrete walkways.	m ²	40		
20	V-shaped water channels.	m ²	16		
	<u>SMOOTH FORMWORK</u>				
	<u>Smooth Formwork to Sides:</u>				
21	Edges not exceeding 300mm high.	m	40		
	<u>MOVEMENT JOINTS.</u>				
	<u>Vertical Joggle Construction Joints Through Concrete Including THICK Cement Slurry to one Face:</u>				
22	10mm Joints not exceeding 300mm high.	m	23		
	<u>TEST BLOCKS</u>				
	<u>Test Blocks:</u>				
23	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).	Sets	5		
	<u>BRICKWORK IN FOUNDATIONS.</u>				
	<u>BRICKWORK:</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>				
24	One brick walls.(Provisional)	m ²	20		
	<u>Brickwork reinforcement:</u>				
25	150mm Wide reinforcement built in horizontally.(Provisional)	m	80		
	<u>GALVANISED STEEL POSTS, ROOF SUPPORTS, ETC</u>				
	<u>Galvanised steel posts:</u>				
26	2635mm high Galvanised steel square column 80 x 80 x 3mm thick cast into unreinforced concrete resting on top of 180mm diameter x 10mm thick galvanised mild steel plate welded to 120mm diameter x 10mm thick tapered flangs bolted into concrete with 12mm diameter anchor bolts.	No	10		
Carried to Collection				R	

Zizi Primary School (ECD)

Amount

SECTION NO. 4

EXTERNAL WORKS

BILL NO. 3

COVERED WALKWAYS

COLLECTION

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SECTION NO. 4
EXTERNAL WORKS
SECTION SUMMARY

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3	COVERED WALKWAYS	4-13

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Zizi Primary School (ECD)

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SECTION NO. 5

PROVISIONAL SUMS

SECTION NO. 5
PROVISIONAL SUMS

APPOINTMENT OF LIASON OFFICER.

- 1 Appointment of a liason officer for eight (8) months with a minimum amount of R 10 000 per month.
- 2 Profit on above item.
- 3 Attendance on above item.

Item	80 000	00
Item		
Item		

MONETARY ALLOWANCES

The following monetary provisions are to be omitted from the contract sum and used as directed below.

- 4 Provide the sum of R390 000-00 (Three Hundred and Ninety Thousand Rands) for Electrification of ECD
- 5 Profit on above
- 6 Attendance on above

Item	390 000	00
Item	19 500	00
Item	19 500	00

Carried to Final Summary

R

ZIZI PRIMARY SCHOOL ECD

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3	PIT TOILETS BLOCK	3-40	
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5	PROVISIONAL SUMS	5-2	
	CONTINGENCY @ 10%		
	SUB-TOTAL		
	ADD VAT @15%		
	FINAL TOTAL	R	

FINAL SUMMARY