

PROVISIONAL BILLS OF QUANTITIES

FOR

**COMPLETION OF ELLIOTDALE VILLAGE JSS - SANITATION APPROPRIATE
FOR EDUCATION (SAFE) PROGRAMME - AMATHOLE DISTRICT**

FOR

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SECTION NO. 1

PRELIMINARIES

SECTION NO. 1

PRELIMINARIES

BILL 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"

PRELIMINARIES

The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"

PRICING OF PRELIMINARIES

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

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

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0 Clause 1.1 Definition of "Commencement Date" is added:

"COMMENCEMENT DATE" means the date that is 10 working days after site hand over.

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

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

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

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

Clause 1.1 Definition of "Corrupt Practice" is added:

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Amount	"CORRUPT PRACTICE" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution Clause 1.1 Definition of "Fraudulent Practice" is added: "FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition Clause 1.1 Definition of "Interest" is amended by replacing it with the following: "INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular:(a) in respect of interest owed by the employer, the interest rate as determined by the 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(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 Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following: "PRINCIPAL AGENT" means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule Clause 1.1 Definition of "Security" is amended by replacing it with the following: "SECURITY" means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss. Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax" Clause 1.6.4 is amended by replacing it with the following:	Item	
	1 No clause	Item	
	F: V: T:		
	OBJECTIVE AND PREPARATION		
	<u>A2.0 OFFER, ACCEPTANCE AND PERFORMANCE</u>		
	2 Clause 2.0	Item	
	F: V: T:		
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3	<u>A3.0 DOCUMENTS</u> Clause 3.2.1 is amended by replacing "14.1" with "14.0" Clause 3.7 is amended by the addition of the following: The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer" F: V: T: <u>A4.0 DESIGN RESPONSIBILITY</u> Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause F: V: T: <u>A5.0 EMPLOYER'S AGENTS</u> Clause 5.0 Clause 5.1.2 is amended to include clauses 32.6.3, 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer shall sign all documents. F: V: T: <u>A6.0 SITE REPRESENTATIVE</u> Clause 6.0 F: V: T: <u>A7.0 COMPLIANCE WITH REGULATIONS</u> Clause 7.0 F: V: T: <u>A8.0 WORKS RISK</u> Clause 8.0 F: V: T: <u>A9.0 INDEMNITIES</u> Clause 9.0 F: V: T: <u>A10.0 WORKS INSURANCES</u> Clause 10.0 Clause 10.0 is amended by the addition of the following clauses:	
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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.

(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works.

(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6

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

10.6 Injury to Persons or loss of or damage to Properties

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

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

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

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

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

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(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:

10.7.1 Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs

10.7.2 Injury to persons or loss of or damage to property

The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of, or caused by a catastrophic ground movement as mentioned above

The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so

10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole

F: V: T:

Item

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Amount

	Item	Amount
11	<u>A11.0 LIABILITY INSURANCES</u> Clause 11.0 F: V: T:	
12	<u>A12.0 EFFECTING INSURANCES</u> Clause 12.0 F: V: T: <u>A13.0 No clause</u> <u>A14.0 SECURITY</u> Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following: 14.1 The security to be submitted by the contractor to the employer will be as a payment reduction of up to ten per cent (10%) of the value certified in the payment certificate (excluding VAT) <u>14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)</u> 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 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected: 14.2.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(B) 14.2.2 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 14.9 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	
13	F: V: T: <u>EXECUTION</u> <u>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</u> Clause 15.0 Clause 15.1.1 is amended by replacing it with: No clause Clause 15.1.2 is amended by replacing it with: The security selected in terms of 14.0	
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14	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 fourteen (14) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4 F: V: T: <u>A16.0 ACCESS TO THE WORKS</u> Clause 16.0 F: V: T: <u>A17.0 CONTRACT INSTRUCTIONS</u> Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors" F: V: T: <u>A18.0 SETTING OUT OF THE WORKS</u> Clause 18.0 F: V: T: <u>A19.0 ASSIGNMENT</u> Clause 19.0 F: V: T: <u>A20.0 NOMINATED SUBCONTRACTORS</u> Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums F: V: T: <u>A21.0 SELECTED SUBCONTRACTORS</u> Clause 21.0 Clause 21 is amended by replacing it with: No clause F: V: T: <u>A22.0 EMPLOYER'S DIRECT CONTRACTORS</u> Clause 22.0 F: V: T: <u>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u> Clause 23.0 F: V: T:	Item
15		Item
16		Item
17		Item
18		Item
19		Item
20		Item
21		Item
22		Item
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		Amount
<u>COMPLETION</u>		
<u>A24.0 PRACTICAL COMPLETION</u>		
23	Clause 24.0 F: V: T:	Item
<u>A25.0 WORKS COMPLETION</u>		
24	Clause 25.0 F: V: T:	Item
<u>A26.0 FINAL COMPLETION</u>		
25	Clause 26.0 Clause 26.1.2 is amended by inserting "#" next to 26.1.2 F: V: T:	Item
<u>A27.0 LATENT DEFECTS LIABILITY PERIOD</u>		
26	Clause 27.0 F: V: T:	Item
<u>A28.0 SECTIONAL COMPLETION</u>		
27	Clause 28.0 F: V: T:	Item
<u>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</u>		
28	Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause F: V: T:	Item
<u>A30.0 PENALTY FOR NON-COMPLETION</u>		
29	Clause 30.0 F: V: T:	Item
<u>PAYMENT</u>		
<u>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</u>		
30	Clause 31.0 F: V: T: Clause 31.5.2 is amended by replacing "14.7.1" with "14.0 and 31.8" Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A) Where a security is selected in terms of 14.1; 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:	Item
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31	31.8(A).1 Ninety-five percent (95%) of such value in interim payment certificates issued up to the date of practical completion 31.8(A).2 Ninety-seven and half percent (97.5%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion 31.8(A).3 Ninety-nine percent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred percent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate Clause 31.12 is amended by deleting the following: Payment shall be subject to the employer giving the contractor a tax invoice for the amount due F: V: T: <u>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</u>	Item
32	Clause 32.0 Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor" Add the following clauses: 33.2.9 to 33.2.13: 33.2.9 the contractor's failure or neglect to commence with the works on the dates prescribed in the contract 33.2.10 the contractor's failure or neglect to proceed with the works in terms of the contract 33.2.11 the contractor's failure or neglect for any reason to complete the works in accordance with the contract 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 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. F: V: T: <u>A33.0 RECOVERY OF EXPENSE AND LOSS</u>	Item
33	Clause 33.0 F: V: T: <u>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</u>	Item
34	Clause 34.0 Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by inserting "#" next to 34.2 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" F: V: T:	Item
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35	<u>A35.0 PAYMENT TO OTHER PARTIES</u> Clause 35.0 F: V: T: <u>CANCELLATION</u> <u>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u> Clause 36.0 Clause 36.1 is amended by the addition of the following clauses: 36.1.3 refuses or neglects to comply strictly with any of the conditions of contract 36.1.4 estate being sequestered, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa 36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer" Clause 36.0 is amended by the addition of the following clause: 36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor, or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever F: V: T: <u>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u> Clause 37.0 Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)" Clause 37.0 is amended by the addition of the following clause: 37.3.5 Replace "ninety (90)" with "one hundred and twenty (120) and 38.5.4 F: V: T: <u>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u> Clause 38.0 Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)" Clause 38.0 is amended by the addition of the following clause:	Item	
36		Item	
37		Item	
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38	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 F: V: T:	Item	
	<u>A39.0 CANCELLATION - CESSATION OF THE WORKS</u>		
39	Clause 39.0 Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) working days of completion of such a report" F: V: T:	Item	
	<u>DISPUTE</u>		
	<u>A40.0 DISPUTE SETTLEMENT</u>		
40	Clause 40.0 Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years" Clause 40.6 is amended by removing the reference to: No clause Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following: Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs F: V: T:	Item	
	<u>SUBSTITUTE PROVISIONS</u>		
	<u>A41.0 STATE CLAUSES</u>		
41	Clause 41.0 F: V: T:	Item	
	<u>CONTRACT VARIABLES</u>		
	<u>A42.0 THE SCHEDULE (C1.2)</u>		
42	Clause 42.0 Tenderers are referred to the C1.2 CONDITIONS OF CONTRACT AND CONTRACT VARIABLES for variables pertaining to this contract F: V: T:	Item	
	<u>SECTION B: JBCC PRELIMINARIES</u>		
	<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
43	B1.1 Definitions and interpretation		
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	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section F: V: T:	
	<u>B2.0 DOCUMENTS</u>	
44	B2.1 Checking of documents F: V: T:	Item
45	B2.2 Provisional bills of quantities F: V: T:	Item
46	B2.3 Availability of construction documentation F: V: T:	Item
47	B2.4 Interests of agents F: V: T:	Item
48	B2.5 Priced documents F: V: T:	Item
49	B2.6 Tender submission F: V: T:	Item
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)" F: V: T:	Item
	<u>B3.0 THE SITE</u>	
50	B3.1 Defined works area F: V: T:	Item
51	B3.2 Geotechnical investigation F: V: T:	Item
52	B3.3 Inspection of the site F: V: T:	Item
53	B3.4 Existing premises occupied F: V: T:	Item
54	B3.5 Previous work - dimensional accuracy F: V: T:	Item
55	B3.6 Previous work - defects F: V: T:	Item
56	B3.7 Services - known F: V: T:	Item
57	B3.8 Services - unknown F: V: T:	Item
58	B3.9 Protection of trees F: V: T:	Item
59	B3.10 Articles of value F: V: T:	Item
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60	B3.11 Inspection of adjoining properties F: V: T:	Item
	<u>B4.0 MANAGEMENT OF CONTRACT</u>	
61	B4.1 Management of the works F: V: T:	Item
62	B4.2 Programme for the works F: V: T:	Item
63	B4.3 Progress meetings F: V: T:	Item
64	B4.4 Technical meetings F: V: T:	Item
65	B4.5 Labour and plant records F: V: T:	Item
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>	
66	B5.1 Samples of materials F: V: T:	Item
67	B5.2 Workmanship samples F: V: T:	Item
68	B5.3 Shop drawings F: V: T:	Item
69	B5.4 Compliance with manufacturers' instructions F: V: T:	Item
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>	
70	B6.1 Deposits and fees F: V: T:	Item
71	B6.2 Enclosure of the works F: V: T:	Item
72	B6.3 Advertising F: V: T:	Item
73	B6.4 Plant, equipment, sheds and offices F: V: T:	Item
74	B6.5 Main notice board F: V: T:	Item
75	B6.6 Subcontractors' notice board F: V: T:	Item
	<u>B7.0 TEMPORARY SERVICES</u>	
76	B7.1 Location F: V: T:	Item
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77	B7.2 Water F: V: T:	Item
78	B7.3 Electricity F: V: T:	Item
79	B7.4 Telecommunication facilities F: V: T:	Item
80	B7.5 Ablution facilities F: V: T:	Item
<u>B8.0 PRIME COST AMOUNTS</u>		
81	B8.1 Responsibility for prime cost amounts F: V: T:	Item
<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
82	B9.1 General attendance F: V: T:	Item
83	B9.2 Special attendance F: V: T:	Item
84	B9.3 Commissioning - fuel, water and electricity F: V: T:	Item
<u>B10.0 FINANCIAL ASPECTS</u>		
85	B10.1 Statutory taxes, duties and levies F: V: T:	Item
86	B10.2 Payment for preliminaries F: V: T:	Item
87	B10.3 Adjustment of preliminaries Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document" F: V: T:	Item
88	B10.4 Payment certificate cash flow F: V: T:	Item
<u>B11.0 GENERAL</u>		
89	B11.1 Protection of the works F: V: T:	Item
90	B11.2 Protection / isolation of existing / sectionally occupied works F: V: T:	Item
91	B11.3 Security of the works F: V: T:	Item
92	B11.4 Notice before covering work F: V: T:	Item
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93	B11.5 Disturbance F: V: T:	Item
94	B11.6 Environmental disturbance F: V: T:	Item
95	B11.7 Works cleaning and clearing F: V: T:	Item
96	B11.8 Vermin F: V: T:	Item
97	B11.9 Overhand work F: V: T:	Item
98	B11.10 Instruction manuals and guarantees F: V: T:	Item
99	B11.11 As built information F: V: T:	Item
100	B11.12 Tenant installations F: V: T:	Item
B12.0 SCHEDULE OF VARIABLES		
101	B12.1 Schedule of variables F: V: T: This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets	
12.1 PRE-TENDER INFORMATION		
12.1.1 Provisional bills of quantities		
[2.2] The quantities are provisional YES		
12.1.2 Availability of construction documentation [2.3] Construction documentation is complete YES		
12.1.3 Interests of agents		
[2.4] Details:		
12.1.4 Defined works area		
[3.1] Details:		
12.1.5 Geotechnical investigation		
[3.2] Details:		
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12.1.6 Existing premises occupied		
[3.4] Specific requirements:		
12.1.7 Previous work - dimensional accuracy		
[3.5] Details:		
12.1.8 Previous work - defects		
[3.6] Details:		
12.1.9 Services - known		
[3.7] Details:		
12.1.10 Protection of trees		
[3.9] 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 contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times		
12.1.14 Main notice board		
[6.5] Specific requirements:		
The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering		
12.1.15 Subcontractors' notice board		
[6.6] A notice board is required: (yes/no) NO		
Specific requirements:		
12.1.16 Water		
[7.2] Option A (by contractor) (yes/no) NO		
Option B (by employer - free of charge) (yes/no) NO		
Option C (by employer - metered) (yes/no) YES		
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12.1.17 Electricity	[7.3] Option A (by contractor) (yes/no) NO Option B (by employer - free of charge) (yes/no) NO Option C (by employer - metered) (yes/no) YES	
12.1.18 Telecommunications	[7.4] Telephone (yes/no) YES	E-mail
	Facsimile (yes/no) YES	
	(yes/no) YES	
12.1.19 Ablution facilities	[7.5] Option A (by contractor) (yes/no) YES	
	Option B (by employer) (yes/no) NO	
12.1.20 Protection of existing/sectionally occupied works	[11.2] Protection is required (yes/no) NO	
12.1.21 Special attendance	[9.2] Subcontractor (1) details:	
	Subcontractor (2) details:	
	Subcontractor (3) details:	
	Subcontractor (4) details:	
12.1.22 Protection of the 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		
12.1.24 Environmental disturbance	[11.6] Specific requirements:	
12.2 POST-TENDER INFORMATION	12.2.1 Payment of preliminaries	
[10.2] Option A (prorated) (yes/no) NO	Option B (calculated) (yes/no) YES	
12.2.2 Adjustment of preliminaries	[10.3] Option A (three categories) (yes/no) NO	
	Option B (detailed breakdown) (yes/no) YES	
12.2.3 Additional agreed preliminaries items Details:	<u>SECTION C: SPECIFIC PRELIMINARIES</u>	
Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item		
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102	C1.0 PROPRIETARY BRANDED PRODUCTS The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. F: V: T: C2.0 TRADE NAMES, ETC. All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. F: V: T: C3.0 CONTRACTORS RESPONSIBILITY The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect in any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved. F: V: T: C4.0 OVERTIME Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer. F: V: T: C5.0 AS BUILT DRAWINGS The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion. F: V: T: C6.0 CONSTRUCTION INSTRUCTIONS	Item Item Item Item Item R
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107	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books: a) Construction Instruction Book: Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book. Only instructions issued in such book shall be recognised. b) Daily Record Book: The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor. F: V: T: C7.0 LABOUR RECORD	Item	
108	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day. F: V: T: C8.0 PLANT RECORD	Item	
109	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works. F: V: T: <u>C9.0 ENCROACHMENT</u>	Item	
110	During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor. F: V: T: C10.0 METHOD STATEMENT	Item	
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111	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works. F: V: T: C11.0 UNAUTHORISED PERSONS/WORKMEN ON PREMISES	Item	
112	The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer. F: V: T: C12.0 MODE OF PROCEDURE	Item	
113	Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited. Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost. F: V: T: C13.0 LOCATION OF TEMPORARY BUILDINGS AND TEMPORARY SERVICES	Item	
114	The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period. There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith. F: V: T: C14.0 OFFICE ACCOMMODATION	Item	
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115	The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18] F: V: T: C15.0 STORAGE FACILITIES The Contractor shall provide a Container for storage of materials. F: V: T: C16.0 REMOVAL AND MAKING GOOD OF TEMPORARY WORKS, ETC, ON COMPLETION The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom. F: V: T: C17.0 CONTRACT DRAWINGS The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent F: V: T: C18.0 GENERAL PREAMBLES The document "Specification of Materials and Methods to be used – PW371 – A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014)." is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines"), and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used F: V: T: C19.0 TRADE NAMES Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders. If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for F: V: T: C20.0 HIV/AIDS AWARENESS	Item Item Item Item Item Item R	Amount
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121	It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment F: V: T: C20.1 AWARENESS CHAMPION	Item	
122	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification F: V: T: C20.2 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 F: V: T: C20.3 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 F: V: T: C20.4 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 F: V: T: C20.5 MONITORING	Item	
123		Item	
124		Item	
125		Item	
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126	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 F: V: T: C21.0 MAIN CONTRACTOR SMME MANAGEMENT Company and head office overhead costs for the management of SMME's in accordance with the contract conditions, including the provision of a dedicated individual to fulfil this function (minimum of three SMME will be utilised). Training of SMME's in building up BOQ rates at the start of the project is to be priced in this item. F: V: T: C22.0 SMME PRELIMINARIES AND GENERAL Preliminary and general costs for a minimum of three SMME including site representatives, offices, storage sheds, tools, equipment, water supplies, electric power, communications, dealing with water and access, temporary works, plant, works cleaning and clearing, etc. F: V: T:	Item
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SECTION NO. 2
DEMOLITIONS (PROVISIONAL)

Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>DEMOLITIONS (PROVISIONAL)</u> <u>BILL NO. 1</u> <u>DEMOLITIONS</u> <u>Notes:</u> For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>View site:</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained <u>Explosive:</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated. <u>General:</u> Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent. Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site. <u>Removal of asbestos material:</u> All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.			
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	Unit	Quantity	Rate	Amount
<u>The following shall apply in respect of asbestos removal:</u> The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001. Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose. Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material. Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occurring, the Contractor will be held responsible contractually and may further be prosecuted criminally. The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained. <u>TEMPORARY BARRIERS, SCREENS, ETC</u> <u>Temporary barriers, screens, etc including removal:</u>				
1	m	400		
2	No	1		
<u>REMOVAL EXISTING WORKS</u> 3 Allow for protecting all existing work liable to suffer damage (i.e. Walls, finishes, floors, windows, joinery fittings, etc.) from damage during the building operations, alterations, etc., and make good all work damaged with new material to match existing to the approval of the Principal Agent.				
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BUILDING WORKS

Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 1</u> <u>EARTHWORKS (PROVISIONAL)</u> <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <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>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". <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>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 <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. <u>Imported fill:</u> "Filling and bedding to trenches etc. to be in compliance with SABS 1200 DB and LB respectively"			
Section No. 3			
Bill No. 1			
Earthworks (provisional)			
	Carried to Collection		
		R	

Unit	Quantity	Rate	Amount
<u>Classification of excavated material:</u> "Hard rock" shall mean granite, quartzitic sandstone or other rock of similar hardness, the removal of which requires drilling, wedging and splitting or the use of explosives. "Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukrip and material of similar hardness. "Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones or pieces of concrete not exceeding 0.03m ³ in volume.			
<u>EXCAVATION OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
1 Trenches.	m ³	5	
<u>Extra over all excavations for carting away:</u>			
2 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m ³	93	
<u>EARTH FILLING, ETC.</u>			
<u>Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:</u>			
3 Under floors, etc.	m ³	23	
<u>Imported G5 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to trenches, holes, etc.</u>			
4 Under floors, etc.	m ³	23	
<u>Imported G7 filling, selected and supplied by the Contractor, including depositing in layers not exceeding 150mm thick and compacting to 98% modified AASHTO dry density to holes, trenches etc.</u>			
5 Under floors, etc.	m ³	69	
<u>Coarse river sand filling supplied by the contractor:</u>			
6 Under floors etc.	m ³	8	
<u>Compaction of surfaces:</u>			
7 Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m ²	153	
Carried to Collection			R
Section No. 3			
Bill No. 1			
Earthworks (provisional)			
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BILL NO. 1
EARTHWORKS (PROVISIONAL)
COLLECTION

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Section No. 3
Bill No. 1
Earthworks (provisional)

	Unit	Quantity	Rate	Amount
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.				
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/20mm concrete:</u>				
1	m ³	19		
Concrete raft slab on waterproofing.				
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
2	No	33		
Making and testing of 150x150x150mm concrete strength test cubes (Provisional).				
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a wood float:</u>				
3	m ²	153		
Surface beds, suspended slabs, ground slabs, etc.				
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
<u>Rough Formwork to Sides:</u>				
4	m	124		
Edges, risers, ends and reveals not exceeding 300mm high or wide.				
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>				
<u>Smooth Formwork to Sides:</u>				
5	m ²	62		
Edges, risers, ends and reveals not exceeding 300mm high or wide.				
<u>MOVEMENT JOINTS ETC</u>				
<u>Two layers of 375 micron damp proof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed (Provisional)</u>				
6	m	190		
Not exceeding 300mm wide.				
<u>Saw cut joints:</u>				
7	m	102		
6 x 40mm Saw cut joints in top of concrete (Provisional).				
Carried to Collection				R
Section No. 3 Bill No. 2 Concrete, Formwork And Reinforcement				43

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BILL NO. 2
CONCRETE, FORMWORK AND REINFORCEMENT
COLLECTION

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Section No. 3
Bill No. 2
Concrete, Formwork And Reinforcement
Carried To Section Summary
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Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 3</u> <u>MASONRY</u> <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</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. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating. <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>Samples:</u> Samples of all masonry building units, except those of walls described as "loadbearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "loadbearing" shall consist of 30 units from every 30 000 units delivered to site <u>Trade names:</u> Where trade names are specified it will read "or equal approved"			
Section No. 3			
Bill No. 3			
Masonry			
	Carried to Collection		
		R	

	Unit	Quantity	Rate	Amount
<u>BRICKWORK AND BLOCKWORK SUNDRIES</u>				
<u>Galvanized brickwork reinforcement</u>				
1	m	135		
2	m	655		
<u>Cramps, ties, etc.:</u>				
3	No	130		
<u>Air bricks etc.:</u>				
4	No	60		
<u>Bagging and sealing the outer face of the inner skin of walls with 1:3 cement and sand mixture and seal with two coats "Brixal" bitumen emulsion waterproofing coating:</u>				
5	m ²	239		
<u>Samples</u>				
6	Item			
<u>Turning pieces to lintels etc</u>				
7	m	65		
<u>FACE BRICK</u>				
<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
8	m ²	32		
9	m ²	239		
10	m ²	103		
11	m	45		
Carried to Collection				R
Section No. 3				
Bill No. 3				
Masonry				
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	Unit	Quantity	Rate	Amount
<u>Face brick copings, lintels, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces:</u>				
12	m	32		
220mm Brick on edge sill bedded sloping and jointed in cement mortar and pointed on top, edge and projecting soffit including cutting and fitting between reveals and splay cutting brickwork under.				
13	m	37		
220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.				
Carried to Collection				R
Section No. 3 Bill No. 3 Masonry				
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BILL NO. 3
MASONRY
COLLECTION

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Section No. 3
Bill No. 3
Masonry

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 4</u>				
<u>WATERPROOFING</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<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>Waterproofing:</u>				
The product and its methodology for application must be approved by Principal Agent before it is used. It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.				
Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.				
Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.				
<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	m ²	153		
Under surface beds, bases, etc.				
<u>One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc.:</u>				
2	m ²	16		
Below walls, sills, etc.				
Section No. 3				R
Bill No. 4				
Waterproofing				
Carried to Collection				
50				

Elliotdale Village JSS				
	Unit	Quantity	Rate	Amount
<u>JOINT SEALANTS ETC</u>				
<u>Clear Neutral silicone sealant:</u>				
3	In joint sealing and pointing all round external window and door frames.	264		
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
4	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	102		
				R
Carried to Collection				
Section No. 3 Bill No. 4 Waterproofing				51

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BILL NO. 4
WATERPROOFING
COLLECTION

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Section No. 3
Bill No. 4
Waterproofing

Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 5</u> <u>ROOF COVERINGS</u> <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>Flashings:</u> Flashings shall be approved by roof sheeting manufacturer and fixed to the sheeting with S10 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 the manufacturer. 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 splatter from penetrating colour coated areas. The flashings shall be supplied with a paint finish consisting of a full top coat silicon modified polyester Colour : White to one side <u>Quality Assurance:</u> The manufacturer shall be assessed and certified as complying with ISO 9001: 2008 Quality Management System <u>Guarantee:</u> Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer. <u>Safety:</u> 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			
Section No. 3 Bill No. 5 Roof Coverings	Carried to Collection	R	
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Unit	Quantity	Rate	Amount
<u>Handling and Storage:</u> 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 <u>Inspection Prior to Installation or Erection:</u> Before commencing with installation, the contractor shall verify that the following items have been checked and accepted: a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted b. Purlins and sheeting rails are at the correct spacing and are within the specified tolerances c. The corners of the roof are square and the wall framework is perpendicular or as specified d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or so dealt with that direct contact with the sheeting is avoided g. The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding <u>Protrusion through Sheeted Surfaces:</u> Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugation			
Section No. 3			
Bill No. 5			
Roof Coverings			
		R	

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Amount

BILL NO. 5
ROOF COVERINGS
COLLECTION

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Section No. 3
Bill No. 5
Roof Coverings

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 6</u> <u>CARPENTRY & JOINERY</u> <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> <u>FIXING</u> All nailing of timber roof rafters, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used. <u>CARPENTRY</u> <u>Sawn softwood:</u>				
1	m	95		
2	m	380		
3	m	60		
4	m	235		
5	No	185		
<u>Sundries:</u> TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). <u>EAVES, VERGES, ETC</u> <u>"Everite Nutec" or equal approved fibre cement</u>				
6	m	95		
7	m	44		
Section No. 3 Bill No. 6 Carpentry & Joinery				R
Carried to Collection				
57				

BILL NO. 6
CARPENTRY & JOINERY
COLLECTION

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Section No. 3
Bill No. 6
Carpentry & Joinery

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 7</u>				
<u>IRONMONGERY</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Keys/Locks:</u>				
Each lock is to be distinctly numbered with consecutive numbers and each key is to be stamped with the corresponding number to the lock that it controls. All locks are to have two keys				
<u>Trade Names:</u>				
Where trade names are specified other ironmongery approved by the Principal Agent may be used				
<u>Fixing:</u>				
Fixing of ironmongery is deemed to be fixed to timber unless otherwise described				
<u>HINGES:</u>				
1	Pairs	31		
75 x 100mm Brass Medium duty ball bearing HMP butt hinges.				
<u>LOCKS</u>				
2	No	8		
"UNION 2277-78SS" or equal approved three lever sash mortice lockset.				
3	No	23		
"UNION w/c indicator bolt satin chrome - Code CZ80941SC				
<u>HANDLES</u>				
4	No	31		
"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.				
<u>Sundries:</u>				
5	No	23		
Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.				
6	No	31		
38mm Diameter black rubber door stop plugged and screwed to wall.				
Carried to Collection				R
Section No. 3				
Bill No. 7				
Ironmongery				
		60		

	Unit	Quantity	Rate	Amount
<u>SIGN PLATES:</u>				
<u>All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.</u>				
7	No	8		
Sign plate plugged and screwed to walls with chromium plated dome headed screws.				
<u>SUNDRIES</u>				
<u>Halcast or equal approved"</u>				
8	No	25		
Thiefproof toilet roll holder plugged.				
<u>Grade 304 stainless steel ware:</u>				
9				
32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth with two 45 degree and two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.				
10	No	2		
32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and plugged and screwed to wall with stainless steel crews.				
11	No	14		
<u>Satin Grey Plastics or equal approved:</u>				
"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, mounted.				
Carried to Collection				R
Section No. 3 Bill No. 7 Ironmongery				61

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IRONMONGERY
COLLECTION

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Section No. 3
Bill No. 7
Ironmongery

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 8</u> <u>METALWORK</u> <u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014). <u>SUPPLEMENTARY PREAMBLES</u> The Contractor is to check and verify on site that the item specified in the BoQ matches existing prior to placing orders. Additional costs will not be borne by the client for items that do not match existing and are not approved by the Principal Agent <u>ALUMINIUM WINDOWS</u> All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA. All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction. All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass. <u>Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:</u>				
1	No	54		
<u>HOT DIP GALVANIZED STEEL GATES</u> Note: The contractor is to check on site measurements before placing of order. <u>Security Gate consisting of 25 x 25 x 2mm galvanised mild steel frame with 12mm galvanised mild steel square bars infill placed at 109mm centres, hung with one pair of galvanised mild steel hinges including locks, handles, ironmongery complete and fixed to brickwork:</u>				
2	No	5		
3	No	2		
			R	
Section No. 3			Carried To Section Summary	
Bill No. 8				
Metalwork			63	

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 9</u>				
<u>PLASTERING</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>SCREEDS</u>				
<u>Untinted granolithic, on concrete:</u>				
1	m ²	153		
30mm Thick on floors and landings.				
<u>Skirtings</u>				
2	m	188		
75mm High covered granolithic skirting.				
Carried To Section Summary				R
Section No. 3				
Bill No. 9				
Plastering				

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>BUILDING WORKS</u>				
<u>BILL NO. 10</u>				
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>				
<u>Note:</u>				
For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>RAINWATER DISPOSAL:</u>				
<u>Watertite or equal approved Aluminium Gutters and Downpipes:</u>				
1	m	48		
125 x 85 x 0.6mm Ogee domestic gutters including gutter brackets at 600mm centres.				
2	No	10		
Extra over eaves gutter for stopped end.				
3	No	10		
Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.				
4	m	45		
100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured).				
5	No	15		
Extra over rainwater downpipe for bends.				
<u>TAPS, VALVES, ETC</u>				
<u>Solid Cast brass taps, valves, etc:</u>				
6	No	19		
"Cobra KM2-200" or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.				
7	No	21		
15mm Ball-o-stop valve.				
8	No	21		
22mm Non Return valve.				
<u>WASTE UNIONS ETC</u>				
<u>Outlets, traps, etc:</u>				
9	No	2		
40mm 342/50 CP bottle trap.				
10	No	19		
40mm Code 316 chrome plated unslotted waste outlet.				
11	No	19		
40mm Rubber "P" or "S" trap				
Carried to Collection				R
Section No. 3				
Bill No. 10				
Plumbing And Drainage (provisional)				65

		Unit	Quantity	Rate	Amount
<u>SANITARY FITTINGS</u>					
<u>Vaal or equal approved:</u>					
12	Lavatera White Vitreous china wall mounted bowl urinal with top inlet [code: 704001] 610x385mm, supplied with 38mm chromium plated domical grating [code: 8787], chromium plated spreader [code: 8543], and two hanger brackets [code: 8127]	No	2		
13	Hibiscus White Vitreous china 510 x 405mm rounded basin [code: 7050] with one tap hole on left hand side, including integrated overflow, bolted to wall with two 8mm bolts [code 8448Z0], to manufacturer's specification.	No	19		
14	Orchid back inlet white vitreous china wall hung pan [code 439016] with floor bracket [code 8082Z0] fitted as per manufacturer's specifications and combined with: GEBERIT Kombifix UP172 for wall hung WC, [G110.150.00.1], front actuated with Delta21 dual flush actuator [G115.125.46.1] in matt finish, including flushpipe and Pan connector, water supply connection with angle stop valve, Netting for direct plastering, protection cover for service opening and protection cover for flushpipe, fixed with included fastening materials inside a single solid wall [80mm]	No	20		
15	Junior vitreous china low level suite colour White (Code: 751358), comprising 104° outlet washdown pan (Code: 751301) with matching 6 litre front single flush cistern (Code: 712034) including lid, fitments and flushpipe and Junior double flap wooden seat (Code: 8518Z0).	No	5		
<u>Franke Model TU101 or equal approved flush valve/cistern flat back wall mounted urinal:</u>					
16	SS-TU101-1830R Flat back stainless steel school trough urinal wall and floor mounted, manufactured from Grade 304 (18/10) Stainless Steel, 0,9 mm gauge. Urinal to be supplied with a concealed sparge pipe and a 22 mm inlet with chrome plated conex fitting for connecting to water inlet (Connection fitting not supplied). Urinal to include a tiling key to sides and rear walls. The back to be fully sound deadened with vermin proof bitumastic material. Outlet to be situated on the left or right of the urinal with a recess for 40 mm chrome plated waste outlet.	No	2		
<u>SANITARY PLUMBING</u>					
<u>PVC waste or vent pipes and fittings:</u>					
17	50mm Waste pipe.	m	171		
18	110mm Pipe.	m	25		
				R	
Section No. 3					
Bill No. 10					
Plumbing And Drainage (provisional)					
					66

Carried to Collection

	Unit	Quantity	Rate	Amount
19	m	131		
<u>uPVC gulleys</u>				
20	No	5		
200mm Precast concrete gully dish and uPVC lowback assembly complete with 110mm P trap gulley (code UGB 40) including 190mm diameter head (code UGA 40) and grate (code UGG 40), not exceeding 750mm deep, jointed to 110mm drain pipe, including excavations for and encasing in concrete (15MPa crushing strength after 28 days) worked up to form kerb, finished smooth on top in 1:3 cement mortar.				
<u>Extra for:</u>				
21	No	44		
50mm Bend.				
22	No	17		
50mm Access bend.				
23	No	25		
100mm Access bend.				
<u>WATER SUPPLIES</u>				
<u>Class 10 Polycop pipes:</u>				
24	m	185		
15mm Pipe chased into brick walls.				
25	m	103		
22mm Pipe chased into brick walls.				
<u>Extra over polycop pipes for compression fittings:</u>				
26	No	160		
15mm Fittings.				
27	No	119		
22mm Fittings.				
<u>Connection to existing water supply</u>				
28	Item			
Allow for connection to existing water supply.				
<u>Connection of water supply from Waste Water Treatment System (WWTS)</u>				
29	Item			
Allow for connecting water supply from waste water treatment system.				
<u>Testing</u>				
30	Item			
Testing water pipe system				
				R
Section No. 3				
Bill No. 10				
Plumbing And Drainage (provisional)				
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BILL NO. 10
PLUMBING AND DRAINAGE (PROVISIONAL)
COLLECTION

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Section No. 3

Bill No. 10

Plumbing And Drainage (provisional)

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>BUILDING WORKS</u> <u>BILL NO. 11</u> <u>PAINTWORK</u>				
<u>Note:</u> For Preambles see "PW 371 - A Edition 2.1 Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition 2.1 July 2014).				
<u>SUPPLEMENTARY PREAMBLES</u> <u>Trade Names:</u> Where trade names are specified it will read "or equal approved"				
<u>PAINTWORK ETC TO NEW WORK</u> <u>ON WOOD</u> <u>Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:</u>				
1	m ²	96		
2	m ²	31		
3	m ²	70		
<u>ON FIBRE-CEMENT</u> <u>Prepare and apply two coats pure acrylic roof paint on:</u>				
4	m ²	49		
On fascias and barge boards.				
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Section No. 3 Bill No. 11 Paintwork				69

SECTION NO. 4

EXTERNAL WORKS (PROVISIONAL)

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>EXTERNAL WORKS (PROVISIONAL)</u>				
<u>BILL NO. 1</u>				
<u>EXTERNAL WORKS (PROVISIONAL)</u>				
<u>THE FOLLOWING IN PLATFORMS, ETC.</u>				
<u>Site Clearance, ETC</u>				
1				
Allow for clearing the area of the site to be built upon of all grass, weeds, shrubs, trees with trunks not exceeding 200mm girth, debris, etc., including grubbing up all roots, scaffolding up as required and cart away all vegetation and debris.				
	m ²	258		
2				
Stripping average 200mm thick layer of topsoil and stockpiling on site.				
	m ²	258		
3				
<u>Extra over all excavations for carting away:</u>				
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.				
	m ³	988		
4				
<u>Earth filling from excavated material</u>				
Dig, load and remove filling selected from spoil heaps on site and deposit as filling in platforms including spreading and compacting to cambers and falls in layers not exceeding 150 mm thick to a minimum of 95% Modified AASHTO dry density.				
	m ³	60		
5				
<u>Surface Preparation:</u>				
Trim and level off surface of ground (excavated or filled under this Contract) including excavating or filling, ripping and scarifying as necessary and compacting the whole area for a depth of 300mm to a density of at least 90% Mod. AASHTO maximum density, part to falls.				
	m ²	644		
6				
<u>Prescribed density tests on filling:</u>				
Modified AASHTO Density test.				
	No	10		
7				
<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
<u>STORMWATER CHANNELS</u>				
<u>Excavation not exceeding 2m deep</u>				
Reducing levels and depositing excavated material in prescribed stock piles on site.				
	m ³	57		
Carried to Collection				R
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Bill No. 1				
External Works (provisional)				
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	Unit	Quantity	Rate	Amount
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
8	m ³	57		
<u>Filling supplied by the contractor under channels</u>				
9	m ³	29		
10	m ³	29		
<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>				
11	m	272		
12	No	8		
13	No	8		
<u>Sundries:</u>				
14	m	89		
15	m	92		
Carried to Collection				R
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		Unit	Quantity	Rate	Amount
	Risk of collapse of excavations:				
26	Sides of trench and hole excavations not exceeding 1,5m deep.	m ²	40		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
27	Backfilling to trenches, holes, etc.	m ³	6		
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:				
28	Under footings.	m ³	2		
	Compaction of surfaces				
29	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 90% Mod AASHTO density.	m ²	16		
	25 Mpa/19mm Concrete				
30	Strip footings.	m ³	3		
	Test blocks:				
31	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	Reinforcement (Provisional)				
32	High tensile steel reinforcement bars to structural concrete work.	Tonnes	1		
	BRICKWORK IN FOUNDATIONS.				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):				
33	One brick walls.	m ²	15		
	BRICKWORK IN SUPERSTRUCTURE				
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):				
34	One brick walls.	m ²	13		
	Brickwork reinforcement:				
35	230mm Wide reinforcement built in horizontally.	m	45		
36	Ditto but in foundations.	m	68		
	Carried to Collection				
	Section No. 4				
	Bill No. 1				
	External Works (provisional)				
	75				

	Unit	Quantity	Rate	Amount
<u>ACCESS RAMPS</u>				
<u>Excavation not exceeding 2m deep</u>				
37	m ³	16		
Reducing levels and depositing excavated material in prescribed stock piles on site.				
<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
38	m ³	16		
Off site to a dumping site to be found by the Contractor.				
<u>Filling supplied by the contractor under floors, aprons, etc</u>				
39	m ³	8		
G7 Base course material compacted to 98% Mod AASHTO density				
40	m ³	8		
Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.				
<u>Coarse river sand filling supplied by the contractor:</u>				
41	m ³	1		
Under floors etc.				
<u>Compaction of surfaces:</u>				
42	m ²	26		
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 90% Mod AASHTO density.				
<u>Prescribed density tests on filling:</u>				
43	No	6		
In-situ dry density test.				
<u>Reinforced 25Mpa/19mm Concrete:</u>				
44	m ³	5		
Ramps, Landings, etc.				
<u>Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.</u>				
45	m ²	26		
Surface beds, slabs, etc to falls and currents.				
<u>Test blocks:</u>				
46	No	6		
Making and testing of 150x150x150mm concrete strength test cubes (Provisional).				
Carried to Collection				R
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External Works (provisional)				
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	Unit	Quantity	Rate	Amount
47	m	46		
<u>Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.</u> 12mm Joints not exceeding 300mm high.				
48	m	46		
<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u> 10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.				
49	m ²	26		
<u>Fabric reinforcement:</u> REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.				
50	m ²	26		
<u>Z200 Galvanized Metal or equal approved sheeting shall be laid in strict accordance with manufacturer's specifications by an approved contractor. The employer shall be provided with a ten year written guarantee on materials by the manufacturer.</u> 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).				
<u>THE FOLLOWING IN RAINWATER TANKS AND STANDS</u>				
51	m ³	33		
<u>Extra over all excavations for carting away:</u> Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.				
52	m ³	16		
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u> Backfilling to trenches, holes, etc.				
53	m ³	7		
<u>Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:</u> Under footings.				
54	m ²	35		
<u>Compaction of surfaces</u> 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 90% Mod AASHTO density.				
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External Works (provisional)				
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Carried to Collection

	Unit	Quantity	Rate	Amount
<u>25 MPa/19mm Concrete</u>				
55	m ³	9		
<u>25 MPa/19mm Concrete:</u>				
56	m ³	4		
<u>Test blocks:</u>				
57	No	8		
<u>Finishing top surfaces of concrete smooth with a steel trowel including adding additional cement while concrete is still green to attain a smooth, hard surface:</u>				
58	m ²	35		
<u>Rough Formwork to Sides:</u>				
59	m	67		
<u>Allens Meshco Square Mesh Fabric reinforcement:</u>				
60	m ²	35		
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>				
61	m ²	3		
<u>Brickwork reinforcement:</u>				
62	m	13		
<u>FACE BRICK</u>				
<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2(Cement to be 42.5N all-purpose cement):</u>				
63	m ²	3		
Extra over brickwork for face brickwork externally.				
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	Unit	Quantity	Rate	Amount
<u>Brick-on-edge header course copings, sills, etc., of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces. 220mm wide sill set sloping and slightly projecting:</u>				
64	m	67		
<u>Plastic water tanks etc:</u>				
65	No	8		
66	No	8		
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EXTERNAL WORKS (PROVISIONAL)
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EXTERNAL WORKS (PROVISIONAL)

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SECTION NO. 5

WORK TO BE EXECUTED BY SMME'S

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>WORK TO BE EXECUTED BY SMME's</u>				
<u>BILL NO. 1</u>				
<u>WORK TO BE EXECUTED BY SMME's</u>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>General</u>				
The Tenderer is encouraged to target works that can be performed by local enterprises as prime contractors, subcontractors or suppliers. This target must be based on the value of work to be performed. The Local Enterprise Participation goal must be calculated in relation to every entity involved in the project. Management staff from other areas for the duration of the project will not qualify as local. Plant and equipment brought from other areas will not qualify as local. Material and plant sourced from local suppliers or agencies will qualify as local. A supplier that has been established locally by a Tenderer solely for the purpose of servicing the project will not qualify.				
The contractor is referred to the specification for the employment of SMME sub-contractors ("SES 003") included in this contract document for the interpretation of each item. The contractor shall ensure full achievement of the deliverables through the construction period of this construction contract.				
BUDGETARY ALLOWANCES under this heading are for work to be executed by the Contractor and are to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. The work shall be measured and valued in accordance with the "Conditions of Contract".				
<u>ACCREDITED TRAINING FOR SMME's</u>				
1	Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for accredited training of the SMME to be paid to an approved training provider.	Item		100 000 00
2	Add: Profit	Item		
3	Add: Attendance	Item		
<u>QUALITY TESTING OF SMME's WORKS AND MATERIAL</u>				
4	Provide the sum of R 50 000.00 (Fifty Thousand Rand) for Quality Testing of SMME Works and Material.	Item		50 000 00
5	Add: Profit	Item		
			R	
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Work To Be Executed By Smme's				
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WORK TO BE EXECUTED BY SMME'S
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Bill No. 1

Work To Be Executed By Smme's

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SECTION NO. 6
PROVISIONAL SUMS

Amount

SECTION NO. 6**PROVISIONAL SUMS****PROVISIONAL SUMS****BUDGETARY ALLOWANCES**

The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:

COMMUNITY LIAISON OFFICER

- 1 Provide the sum of R 58 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R6 500.00 a month for the duration (9 months)

Item 58 500 00

- 2 Add: Mark-up

Item

WASTE WATER TREATMENT SYSTEM

- 3 Provide the sum of R 2 700 000.00 (Two Million Seven Hundred Thousand Rand) for design and construction of on-site waste water treatment system as per specification provided.

Item 2 700 000 00

- 4 Add: Profit

Item

- 5 Add: Attendance

Item

ELECTRICAL INSTALLATION

- 6 Provide the sum of R 150 000.00 (One Hundred and Fifty Thousand Rand) for Electrical installation.

Item 150 000 00

- 7 Add: Profit

Item

- 8 Add: Attendance

Item

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Section No. 6

Bill No. 1

Provisional Sums

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3	BUILDING WORKS	70	
4	EXTERNAL WORKS (PROVISIONAL)	81	
5	WORK TO BE EXECUTED BY SMME's	86	
6	PROVISIONAL SUMS	88	
	ADD: CONTINGENCIES		
	Allow the sum as indicated for Contingencies		400 000.00
	SubTotal excluding Value Added Tax		
	ADD VAT @ 15%:		
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	FINAL SUMMARY		