

Item No		Quantity	Rate	Amount
	<u>SECTION 1</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> <u>MEANING OF TERMS "TENDER / TENDERER"</u> 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" <u>PRELIMINARIES</u> 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" <u>PRICING OF PRELIMINARIES</u> 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			
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	<u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u> <u>DEFINITIONS</u> 1 A1.0 DEFINITIONS AND INTERPRETATION Clause 1.0 Clause 1.1 Definition of "Commencement Date" is added: "COMMENCEMENT DATE" means the date that is 5 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: "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:			
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Brought Forward "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		R	
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	Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax" Clause 1.6.4 is amended by replacing it with the following: No clause Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>OBJECTIVE AND PREPARATION</u>			
2	A2.0 OFFER, ACCEPTANCE AND PERFORMANCE			
	Clause 2.0 Fixed: _____ Value related: _____ Time related: _____	Item		
3	A3.0 DOCUMENTS			
	Clause 3.0 Clause 3.2.1 is amended by replacing "14.1" with "14.0" Clause 3.7 is amended by the addition of the following: The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer" Fixed: _____ Value related: _____ Time related: _____	Item		
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4	A4.0 DESIGN RESPONSIBILITY Clause 4.0 Clause 4.3 is amended by replacing it with the following: No clause Fixed: _____ Value related: _____ Time related: _____	Item		
5	A5.0 EMPLOYER'S AGENTS 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. Fixed: _____ Value related: _____ Time related: _____	Item		
6	A6.0 SITE REPRESENTATIVE Clause 6.0 Fixed: _____ Value related: _____ Time related: _____	Item		
7	A7.0 COMPLIANCE WITH REGULATIONS Clause 7.0 Fixed: _____ Value related: _____ Time related: _____	Item		
8	A8.0 WORKS RISK Clause 8.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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9	A9.0 INDEMNITIES Clause 9.0 Fixed: _____ Value related: _____ Time related: _____	Item	
10	A10.0 WORKS INSURANCES Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.5 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary (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		
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Brought Forward 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		R	
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Brought Forward (e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed (f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works 10.7 High risk insurance 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		R	
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Brought Forward 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 Fixed: _____ Value related: _____ Time related: _____		R	
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11	A11.0 LIABILITY INSURANCES Clause 11.0 Fixed: _____ Value related: _____ Time related: _____	Item		
12	A12.0 EFFECTING INSURANCES Clause 12.0 Fixed: _____ Value related: _____ Time related: _____	Item		
13	A13.0 No clause	N/A		
14	A14.0 SECURITY 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) 14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> 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 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 <i>mutatis mutandi</i> in terms of 31.8(B)			
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	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 Fixed: _____ Value related: _____ Time related: _____ <u>EXECUTION</u>	Item		
15	A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS Clause 15.0 Clause 15.1.1 is amended by replacing it with: No clause Clause 15.1.2 is amended by replacing it with: The security selected in terms of 14.0 Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within fourteen (14) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause:			
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	Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4 Fixed: _____ Value related: _____ Time related: _____	Item		
16	A16.0 ACCESS TO THE WORKS Clause 16.0 Fixed: _____ Value related: _____ Time related: _____	Item		
17	A17.0 CONTRACT INSTRUCTIONS Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors" Fixed: _____ Value related: _____ Time related: _____	Item		
18	A18.0 SETTING OUT OF THE WORKS Clause 18.0 Fixed: _____ Value related: _____ Time related: _____	Item		
19	A19.0 ASSIGNMENT Clause 19.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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20	A20.0 NOMINATED SUBCONTRACTORS 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 Fixed: _____ Value related: _____ Time related: _____	Item		
21	A21.0 SELECTED SUBCONTRACTORS Clause 21.0 Clause 21 is amended by replacing it with: No clause Fixed: _____ Value related: _____ Time related: _____	Item		
22	A22.0 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0 Fixed: _____ Value related: _____ Time related: _____	Item		
23	A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0 Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>COMPLETION</u>			
24	A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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25	A25.0 WORKS COMPLETION Clause 25.0 Fixed: _____ Value related: _____ Time related: _____	Item		
26	A26.0 FINAL COMPLETION Clause 26.0 Fixed: _____ Value related: _____ Time related: _____	Item		
27	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed: _____ Value related: _____ Time related: _____	Item		
28	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed: _____ Value related: _____ Time related: _____	Item		
29	A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed: _____ Value related: _____ Time related: _____	Item		
30	A30.0 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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	Brought Forward		R	
	<u>PAYMENT</u>			
31	A31.0 INTERIM PAYMENT TO THE CONTRACTOR Clause 31.0 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: 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 Fixed: _____ Value related: _____ Time related: _____	Item		
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	Brought Forward		R	
32	A32.0 ADJUSTMENT TO THE CONTRACT VALUE 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. Fixed: _____ Value related: _____ Time related: _____	Item		
33	A33.0 RECOVERY OF EXPENSE AND LOSS Clause 33.0 Fixed: _____ Value related: _____ Time related: _____	Item		
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34	A34.0 FINAL ACCOUNT AND FINAL PAYMENT 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" Fixed: _____ Value related: _____ Time related: _____	Item	
35	A35.0 PAYMENT TO OTHER PARTIES Clause 35.0 Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>CANCELLATION</u>		
36	A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT Clause 36.0 Clause 36.1 is amended by the addition of the following clauses: 36.1.3 refuses or neglects to comply strictly with any of the conditions of contract 36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa 36.1.5 in the 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:		
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	36.3 Remove reference to "No clause", and replace "principal agent" with "employer" 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 Fixed: _____ Value related: _____ Time related: _____	Item	
37	A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE 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 Fixed: _____ Value related: _____ Time related: _____	Item	
38	A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT 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:		
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	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 Fixed: _____ Value related: _____ Time related: _____	Item	
39	A39.0 CANCELLATION - CESSATION OF THE WORKS 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" Fixed: _____ Value related: _____ Time related: _____	Item	
40	<u>DISPUTE</u> A40.0 DISPUTE SETTLEMENT 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 Fixed: _____ Value related: _____ Time related: _____	Item	
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	<u>SUBSTITUTE PROVISIONS</u>			
41	A41.0 STATE CLAUSES			
	Clause 41.0			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>CONTRACT VARIABLES</u>			
42	A42.0 THE SCHEDULE (C1.2)			
	Clause 42.0			
	Tenderers are referred to the C1.2 CONDITIONS OF CONTRACT AND CONTRACT VARIABLES for variables pertaining to this contract			
	Fixed: _____ Value related: _____ Time related: _____	Item		
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	<u>SECTION B: JBCC PRELIMINARIES</u>		
	<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
43	<i>B1.1 Definitions and interpretation</i> See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B2.0 DOCUMENTS</u>		
44	<i>B2.1 Checking of documents</i> Fixed: _____ Value related: _____ Time related: _____	Item	
45	<i>B2.2 Provisional bills of quantities</i> Fixed: _____ Value related: _____ Time related: _____	Item	
46	<i>B2.3 Availability of construction documentation</i> Fixed: _____ Value related: _____ Time related: _____	Item	
47	<i>B2.4 Interests of agents</i> Fixed: _____ Value related: _____ Time related: _____	Item	
48	<i>B2.5 Priced documents</i> Fixed: _____ Value related: _____ Time related: _____	Item	
49	<i>B2.6 Tender submission</i> Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)" Fixed: _____ Value related: _____ Time related: _____	Item	
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	<u>B3.0 THE SITE</u>			
50	B3.1 Defined works area Fixed: _____ Value related: _____ Time related: _____	Item		
51	B3.2 Geotechnical investigation Fixed: _____ Value related: _____ Time related: _____	Item		
52	B3.3 Inspection of the site Fixed: _____ Value related: _____ Time related: _____	Item		
53	B3.4 Existing premises occupied Fixed: _____ Value related: _____ Time related: _____	Item		
54	B3.5 Previous work - dimensional accuracy Fixed: _____ Value related: _____ Time related: _____	Item		
55	B3.6 Previous work - defects Fixed: _____ Value related: _____ Time related: _____	Item		
56	B3.7 Services - known Fixed: _____ Value related: _____ Time related: _____	Item		
57	B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____	Item		
58	B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____	Item		
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59	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item		
60	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B4.0 MANAGEMENT OF CONTRACT</u>			
61	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: R _____	Item		
62	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item		
63	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item		
64	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item		
65	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
66	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item		
67	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item		
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68	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item		
69	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
70	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item		
71	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item		
72	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item		
73	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item		
74	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item		
75	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B7.0 TEMPORARY SERVICES</u>			
76	B7.1 Location Fixed: _____ Value related: _____ Time related: _____	Item		
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77	B7.2 Water Fixed: _____ Value related: _____ Time related: _____	Item		
78	B7.3 Electricity Fixed: _____ Value related: _____ Time related: _____	Item		
79	B7.4 Telecommunication facilities Fixed: _____ Value related: _____ Time related: _____	Item		
80	B7.5 Ablution facilities Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B8.0 PRIME COST AMOUNTS</u>			
81	B8.1 Responsibility for prime cost amounts Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>			
82	B9.1 General attendance Fixed: _____ Value related: _____ Time related: _____	Item		
83	B9.2 Special attendance Fixed: _____ Value related: _____ Time related: _____	Item		
84	B9.3 Commissioning - fuel, water and electricity Fixed: _____ Value related: _____ Time related: _____	Item		
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	Brought Forward		R
	<u>B10.0 FINANCIAL ASPECTS</u>		
85	<i>B10.1 Statutory taxes, duties and levies</i> Fixed: _____ Value related: _____ Time related: _____	Item	
86	<i>B10.2 Payment for preliminaries</i> Fixed: _____ Value related: _____ Time related: _____	Item	
87	<i>B10.3 Adjustment of preliminaries</i> 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 " Fixed: _____ Value related: _____ Time related: _____	Item	
88	<i>B10.4 Payment certificate cash flow</i> Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B11.0 GENERAL</u>		
89	<i>B11.1 Protection of the works</i> Fixed: _____ Value related: _____ Time related: _____	Item	
90	<i>B11.2 Protection / isolation of existing / sectionally occupied works</i> Fixed: _____ Value related: _____ Time related: _____	Item	
91	<i>B11.3 Security of the works</i> Fixed: _____ Value related: _____ Time related: _____	Item	
92	<i>B11.4 Notice before covering work</i> Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward		R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		

	Brought Forward		R	
93	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item		
94	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item		
95	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item		
96	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item		
97	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item		
98	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item		
99	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item		
100	B11.12 Tenant installations Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B12.0 SCHEDULE OF VARIABLES</u>			
101	B12.1 Schedule of variables Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

Brought Forward 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] <i>Construction documentation is complete</i> 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: 12.1.6 Existing premises occupied [3.4] Specific requirements: 12.1.7 Previous work - dimensional accuracy [3.5] Details:		R	
Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		R	

Brought Forward 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		R	
Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		R	

Brought Forward 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] <i>A notice board is required</i> NO Specific requirements: 12.1.16 Water [7.2] Option A (by contractor) NO Option B (by employer - free of charge) NO Option C (by employer - metered) YES		R	
Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		R	

Brought Forward 12.1.17 Electricity [7.3] Option A (by contractor) NO Option B (by employer - free of charge) NO Option C (by employer - metered) YES 12.1.18 Telecommunications [7.4] Telephone YES Facsimile YES E-mail YES 12.1.19 Ablution facilities [7.5] Option A (by contractor) YES Option B (by employer) NO 12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required NO		R	
Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		R	

Brought Forward 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) NO Option B (calculated) YES 12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) NO Option B (detailed breakdown) YES		R	
Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		R	

	Brought Forward		R	
	<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			
102	C1.0 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 Fixed: _____ Value related: _____ Time related: _____	Item		
103	C2.0 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 Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			

	Brought Forward		R
104	C3.0 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 Fixed: _____ Value related: _____ Time related: _____	Item	
105	C4.0 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 / 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 C4.1 AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward		R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		

Brought Forward C4.2 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 Fixed:_____ Value related:_____ Time related:_____ C4.3 POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____ C4.4 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 Fixed:_____ Value related:_____ Time related:_____ C4.5 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 Fixed:_____ Value related:_____ Time related:_____	Item Item Item Item	R	
Carried Forward to Summary of Section No. 1 Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1		R	

Item No		Quantity	Rate	Amount
	<u>SECTION 1</u> <u>BILL NO. 2</u> <u>HEALTH AND SAFETY</u> <u>SUPPLEMENTARY PREAMBLES</u> Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles. The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications. Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications including any latest amendments. The items in this Bill do not contain quantities hence the Contractor must insert his own allowances based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications issued as part of this Tender Document. The costs included herein must incorporate Community Liaison Officer (CLO), Built Environment Interns, Students and SMME mentor employed on the site as applicable to this Tender as per the Provisional Sums section. <u>OCCUPATIONAL HEALTH AND SAFETY</u>			
	Carried Forward			
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 2			

R

	Brought Forward		R	
	<u>General:</u>			
1	One full time Construction Health and Safety Officer or Manager (CHSO/M) with SACPCMP with 5 or more years working experience Full time attendance on site of a SACPCMP-registered CHSO/M from the start of construction until the end of project handover and provisions of telecommunications.	Item		
2	Provision for Health and Safety Management Plans and File aligned with project specifications	Item		
3	Allow for the necessary Workman's Compensation Fund or approved Insurer contributions for the duration of the project with and including renewals	Item		
4	Medical certificates of fitness. Medical examination of all employees and certification of fitness for Pre-employment is required. Medical examination of all employees and certification of fitness for Exit-employment is required. Allow for annual medicals for employees if the project duration is more than 12 months.	Item		
5	Emergency Equipment based on the risk exposure and emergency rescue. stretchers, neck brace, first aid kits, fire fighting equipment.	Item		
6	Competent inspectors for equipment such as examples scaffolding inspectors and lifting machine inspector.	Item		
7	Mandatory training such as risk assessments, legal liability/OHS Act, awareness, first aid incident investigation.	Item		
	<u>Provide, supply and maintenance for each worker the following SANS approved personal protective equipment & clothing as per the site-specific risk assessments:</u>			
8	Hard hats (High density polyethylene with 6 point lining)	Item		
9	Overall/work suits (100% Cotton)	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 2			

	Brought Forward		R	
10	Reflective vests with visible marking of contractor and proof of induction	Item		
11	Safety boots/shoes (Steel-Toe)	Item		
12	Ear Plugs/Muffs	Item		
13	Dust Mask FFP2	Item		
14	Safety goggles	Item		
15	Safety gloves	Item		
16	Respirators	Item		
17	Safety harness	Item		
18	Permit board	Item		
19	Barricading and hoarding for fall arrest, SANS approved safety netting (orange colour with minimum of 1,2 meters high)	Item		
20	Personal fall arrest and rescue equipment with and including lifelines and associated equipment	Item		
21	Temporary handrails, toe boards other than for access to scaffolding	Item		
22	Construction information, warning signage, posters	Item		
23	Allow for fire extinguishers and fire fighting equipment	Item		
24	Safe lifting equipment for lifting and lowering pipes, lifting tackles and slings	Item		
25	Allow for provision of telecommunication facilities for the appointed OHS officer	Item		
26	Provide for appointment of responsible and competent person/s to manage and supervise the works and administer and enforce health and safety on site	Item		
27	Allow for provision of Basic medical Preparedness and Response equipment & at least Level 2 First Aider/s	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 2			

Brought Forward			R
	<u>Environmental:</u>		
28	Dust control measure for the prevention of dust nuisance. Buildings that are partial decanted. Hoarding to be provided for dust control. Hoarding to extend into the ceiling of the buildings.	Item	
29	Provision for spill kits, drip trays	Item	
30	Housekeeping – provide for the waste bins, safe collection and disposal of waste material from site by an approved method (a) Air monitoring (b) Analysing Samples (c) Test on Workers	Item	
	<u>Disease Awareness Education:</u>		
31	Principal contractor's time related obligations in respect of the Disease Management	Item	
Carried Forward to Summary of Section No. 1			R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 2			

[illegible]

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO.1</u> <u>REFURBISHMENTS</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371"				
	<u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the contractor 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				
	Carried Forward Section No. 2 BUILDING WORKS Bill No. 1			R	

Brought Forward <u>Existing structures</u>In taking down and removing existing work, the utmost care shall be observed to prevent any structural or other damage to the remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work. Any damage to the structure and/or building as well as the rectification of same will be for the Contractor's account. SUPPLEMENTARY PREAMBLE Services Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, gas and oxygen supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative Agent if any disconnection or alterations become necessary. Dust and noise The Contractor is to take all necessary precautions to the satisfaction of the Representative Agent to prevent any nuisance from the dust and/or noise whilst carrying out the work. Disposal of debris The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work and the removal is deemed to be included in the rates unless otherwise specified. <u>Explosives</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated <u>General</u> The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent			R	
Carried Forward Section No. 2 BUILDING WORKS Bill No. 1			R	

Brought Forward Water supply pipes and other piping 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 Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) Alterations to the roof and roof trusses are measured with the carpentry and joinery and the roofing <u>LOCATIONS</u> A - Girls Ablution Blocks B - Boys Ablution Blocks C - Staff Ablution Blocks			R	
Carried Forward Section No. 2 BUILDING WORKS Bill No. 1			R	

	Brought Forward			R	
	<u>Old materials to become the property of the Contractor</u> <u>Old materials from the alterations, except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary.</u> <u>Old materials to be carted away</u> <u>Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc. must regularly be carted away from site and not be allowed to accumulate on or around the site.</u> <u>Old materials not to be re-used</u> <u>None of the old materials are to be re-used for new work, except where specifically described as being set aside for re-use.</u> <u>Handing over of materials</u> <u>Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Representative/ Agent, such materials or articles shall be properly stored by the Contractor until handing over thereof. The Contractor must obtain an official receipt listing materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</u> <u>CLEANING OF EXISTING SURFACES</u> 1 High pressure clean internal painted walls to remove dirt, lichen, moss, etc. complete including removal of any flaking paint and prepare to receive new paint (elsewhere measured) A : 150 B : 0 C : 0 2 High pressure clean ceramic tiled floors A : 48 B : 0 C : 0 <u>GENERAL ALTERATIONS</u> <u>General repairs:</u> 3 Refasten loose TR2 toilet roll holder A : 15 B : 0 C : 0				
	Carried Forward			R	
	Section No. 2 BUILDING WORKS Bill No. 1				

	Brought Forward				R
4	Refasten loose 32mm outside diameter x 1,6mm thick tubular wall mounted side stainless steel grab rail 1,06m girth A : 2 B : 0 C : 0	No	2		
5	Refasten loose 32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth A : 2 B : 0 C : 0	No	2		
REMOVAL OF EXISTING WORK					
<u>Taking down and removing existing roofs, ceilings, fascias, gutters, flashing etc.:</u>					
6	Fibre cement roof covering and accessories, including timber purlins A : 24 B : 0 C : 0	m2	24		
7	Fibre cement barge board, including accessories A : 21 B : 0 C : 0	m	21		
<u>Take out and remove doors, etc, including thresholds, set aside for handing over to the employer and prepare frame to receive new doors in similar position (doors measured elsewhere)</u>					
8	Timber single door and frame not exceeding 2,5m ² A : 3 B : 0 C : 0	No	3		
9	Steel window frame size 1800x600mm high from brick wall A : 0 B : 0 C : 2	No	2		
<u>Take out and remove broken window panes from steel windows and prepare frame to receive new glazing in similar position (glazing measured elsewhere)</u>					
10	Window glass panes A : 5 B : 4 C : 4	m2	13		
	Carried Forward				R
Section No. 2 BUILDING WORKS Bill No. 1					

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO.2</u> <u>ROOF COVERINGS</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 124 for CPAP formula purposes <u>LOCATIONS</u> A - Girls Ablution Blocks B - Boys Ablution Blocks C - Staff Ablution Blocks <u>FIBRE-CEMENT SHEETING AND ACCESSORIES</u> <u>Nutec Big six or equally approved fibre cement roof sheeting and accessories fixed to timber purlins (elsewhere measured) at 1700mm centres in according to manufacturers instruction</u>			
1	Roof covering with pitch not exceeding 25 degrees A : 0 B : 0 C : 24	m2	24	
2	Ridge capping to suit roof profile A : 14 B : 0 C : 0	m	14	
	<u>ROOF AND WALL INSULATION</u> <u>Sisalation 420' or similar approved heavy industrial grade reinforced aluminium foil and polyethylene insulation</u>			
3	Insulation laid taut over purlins (at maximum 760mm centres) and fixed concurrent with roof covering, including galvanised steel straining wires A : 0 B : 0 C : 24	m2	24	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 BUILDING WORKS Bill No. 2			

R

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO.3</u> <u>CARPENTRY AND JOINERY</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>SUPPLEMENTARY PREAMBLES</u> <u>Particle board:</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type <u>Joinery:</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete <u>ROOFS ETC</u> Plate nailed timber roof truss construction The following is applicable in respect of roof trusses: Trusses are at maximum 760mm centres The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the Employer's Agent and/or the site before design or fabrication commences			
	Carried Forward			
	Section No. 2 BUILDING WORKS Bill No. 3			R

Brought Forward <u>DESCRIPTIONS</u> The term "planted on" shall mean the nailing of one timber member to another The term "screwed on" shall mean the countersunk screwing of one timber member to another The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting. Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc. <u>GENERAL TIMBERS</u> a) The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer in accordance with SABS 0243. It shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent . b) Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR. c) Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary and permanent bracing. Prefabricated plate nailed timber roof truss construction <u>LOCATIONS</u> A - Girls Ablution Blocks B - Boys Ablution Blocks C - Staff Ablution Blocks		R	
Carried Forward Section No. 2 BUILDING WORKS Bill No. 3		R	

Brought Forward			R
<u>Sawn softwood</u>			
1	50 x 76mm Purlins A : 0 B : 0 C : 40	m	40
<u>DOORS, ETC.</u>			
<u>Wrought hardwood flushback doors with sapele veneer hung to steel frames</u>			
2	44mm "TDM" Framed and ledged door 813 x 2 032mm high A : 2 B : 0 C : 0	No	2
<u>Semi Solid doors with "Masonite" 3mm standard hardboard covering on both sides suitable for painting hung to steel frames</u>			
3	40mm x 813 x 2032mm Standard meranti door A : 0 B : 0 C : 1	No	1
<u>EAVES, VERGES, ETC</u>			
<u>Pressed-fibre cement</u>			
4	80 x 200mm Barge fixed vertically to timber battens at end of roof trusses (elsewhere measured) with bras screws, including H-profiled PVC joint strips, caps, etc. A : 29 B : 0 C : 0	m	29
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 3			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO. 4</u> <u>IRONMONGERY</u> <u>PREAMBLES</u> For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371 <u>LOCATIONS</u> A - Girls Ablution Blocks B - Boys Ablution Blocks C - Staff Ablution Blocks <u>BATHROOM FITTINGS</u> <u>"Halcast" or similar approved</u> 1 Thiefproof toilet roll holder plugged to wall No 8 A : 8 B : 0 C : 0 <u>LOCKS</u> <u>"Union"</u> 2 "682-24-52 SC" three lever lockset No 2 A : 0 B : 0 C : 2 3 Padlock, 50mm Viro with two keys No 12 A : 12 B : 0 C : 0 <u>DOOR STOPS, CABIN HOOKS, ETC,</u> <u>Dormakaba or other approved:</u> 4 30mm Diameter rubber door stop plugged & screwed to floor No 12 A : 0 B : 5 C : 7 <u>PUSH PLATES AND KICKING PLATES</u>			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 4			

	Brought Forward			R
	<u>Dormakaba or other approved:</u>			
5	"dkp-ss-161" Stainless steel kick plate size 813 x 300mm high fixed to timber A : 0 B : 0 C : 2	No	2	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	<u>"Union"</u>			
6	"AL5066-06ASE08" 152 x 152mm anodised aluminium plate with directional pictogram A : 2 B : 0 C : 0	No	2	
	<u>SUNDRIES</u>			
	<u>Satin Grey Plastics or equal approved</u>			
7	"Satin plastic N-SBIN-12-SA SHE Bin size 463 x 140 x 480mm, floor standing loose. A : 2 B : 0 C : 0	No	2	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 BUILDING WORKS Bill No. 4			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO. 5</u> <u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u> <u>PREAMBLES</u> For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371 <u>NOTE:</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> <u>uPVC pipes and fittings:</u> Soil, waste and vent pipes and fittings shall be solvent weld jointed <u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 5			

Brought Forward <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings <u>Exposed concrete surfaces</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling Soft rock and "hard rock" shall be as defined in "Earthworks" <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding		R	
Carried Forward Section No. 2 BUILDING WORKS Bill No. 5		R	

	Brought Forward			R
	<u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary <u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings <u>LOCATIONS</u> A - Girls Ablution Blocks B - Boys Ablution Blocks C - Staff Ablution Blocks <u>RAINWATER DISPOSAL</u> <u>Mr Gutter Ogee or similar approved pre-coated similar seamless gutter</u>			
1	100 x 100 x 0.6mm thick chromodek steel gutter including matching rivet fixed mitres and end caps (measured elsewhere) internally sealed using silicon mastic, hung by nail fixed to internal pre-painted hangers at 800mm centres and laid to fall to outlets. A : 29 B : 29 C : 44	m	102	
2	100 x 76 x 0.5mm thick chromodek fixed to walls with pre-painted downpipes cleats using nail-in anchor fixings A : 29 B : 29 C : 45	m	103	
3	Extra over 125 x 100mm eaves gutter for outlet for 75 x 50mm pipe A : 15 B : 15 C : 30	No	60	
4	Extra over 75 x 100mm down pipe for eaves or plinth offset 750mm projection A : 4 B : 4 C : 8	No	16	
5	Extra over 75 x 100mm down pipe for shoe A : 4 B : 4 C : 8	No	16	
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 5			

	Brought Forward			R
	<u>SANITARY PLUMBING</u>			
	<u>uPVC Pipes</u>			
6	110mm Diameter pipes	m	20	
	A : 0 B : 14 C : 6			
7	50mm Diameter pipes	m	20	
	A : 0 B : 14 C : 6			
	<u>Extra over for uPVC for fittings</u>			
8	50mm Inspection eye junction	No	4	
	A : 0 B : 0 C : 4			
9	50mm - pipe fitting	No	14	
	A : 0 B : 10 C : 4			
10	50mm GI two way vent valve	No	4	
	A : 0 B : 0 C : 4			
11	110mm bends fitting 45/90°	No	4	
	A : 0 B : 0 C : 4			
12	110mm Pan connector	No	2	
	A : 0 B : 0 C : 2			
	<u>Testing installation</u>			
13	Testing sanitary plumbing installation		Item	
	A : 0.00 B : 0.00 C : 1.00			
	<u>WATER SUPPLIES</u>			
	<u>Class "O" copper pipes, chase into walls and make good for wall to receive paint</u>			
14	15mm Pipes	m	4	
	A : 0 B : 0 C : 4			
15	15mm Fittings	No	20	
	A : 20 B : 0 C : 0			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 5			

	Brought Forward			R
	<u>Extra over class "O" copper pipes for capillary fittings</u>			
16	15mm Fittings A : 15 B : 0 C : 0	No	15	
	<u>Testing installation</u>			
17	Testing water supply system A : 0.00 B : 0.00 C : 1.00		Item	
	<u>SANITARY FITTINGS</u>			
	<u>Iecico or other approved</u>			
18	Amaro 2 Code 037119 white vitreous china wall hung basin with one semi-punched tap hole with integrated overflow A : 0 B : 0 C : 2	No	2	
19	Neon WC Code NEOBOXFFLOELFBE box set including close couple pan, cistern, dual push button top flush mechanism complete with seat and lid complete with fixing screws A : 0 B : 3 C : 0	No	3	
	<u>TAPS, VALVES, ETC</u>			
	<u>Cobra Watertech or other approved</u>			
20	Cobra no 401 CP Basin set with 31mm chromium plated whb outlet A : 0 B : 5 C : 0	No	5	
21	22mm Code FJ6.000 "Flushmaster Junior" urinal flushvalve complete with connector, spray rose (Code FJT 5.4) and wallplate. A : 0 B : 8 C : 2	No	10	
	<u>Walcro or other approved</u>			
22	15mm Type 100D Demand push button pillar taps A : 0 B : 0 C : 3	No	3	
	<u>WASTE UNIONS, TRAPS, ETC</u>			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 5			

	Brought Forward			R
	<u>Cobra Watertech or other approved</u>			
23	38mm basin or sink waste union A : 2 B : 0 C : 0	No	2	
24	40mm 'Flexitrap' flexible rubber reseal 'S' or 'P' trap with clips complete A : 0 B : 5 C : 0	No	5	
	<u>BUDGETARY ALLOWANCES</u>			
25	Allow the Budgetary Allowance of R 5 000.00 for builders work in connection with the commissioning and servicing of decommissioned water supply services to be expanded in part or whole as directed by Principal Agent A : 0.00 B : 0.00 C : 1.00		Item	5,000.00
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 BUILDING WORKS Bill No. 5			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO. 6</u> <u>GLAZING</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>MIRRORS</u> NOTE : Mirrors shall be of 6mm thick silvered GG quality polished float glass with rounded and polished edges and splayed corners. Unless otherwise described, mirrors shall have four holes for and be screwed to and including approved patent plugs in plastered or tiled wall with countersunk steel screws tap-threaded for and including screw type chromium plated dome-headed caps and felt washers. <u>LOCATIONS</u> A - Girls Ablution Blocks B - Boys Ablution Blocks C - Staff Ablution Blocks <u>GLAZING TO STEEL WITH PUTTY</u> <u>4 mm Rough cast glass</u>			
1	Panes exceeding 0,5m2 and not exceeding 2m2 A : 11 B : 11 C : 0	m2	22	
2	<u>SUNDRY ITEMS</u> Allow the some of R5 000.00 to assess, service and replace (where necessary) window stays to all windows to be used in part or in whole as directed by the Principal Agent.	Item		5,000.00
	Carried Forward to Summary of Section No. 2 Section No. 2 BUILDING WORKS Bill No. 6		R	

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO. 7</u> <u>PAINTWORK</u> <u>PREAMBLES</u> For preambles, refer to "Model Preambles for Trades", for specification of materials and methods to be used - refer to public works document no. PW371 <u>SUPPLEMENTARY PREAMBLES</u> <u>PREPARATORY WORK TO EXISTING WORK</u> <u>Previously painted plastered surfaces</u> Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth <u>Previously painted metal surfaces</u> Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal <u>Previously painted wood surfaces</u> Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth <u>LOCATIONS</u> A - Girls Ablution Blocks B - Boys Ablution Blocks C - Staff Ablution Blocks <u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK ON FLOATED</u>			
	Carried Forward			R
	Section No. 2 BUILDING WORKS Bill No. 7			

Brought Forward			R
<u>One coat universal undercoat and three coats super acrylic PVA paint</u>			
1	On internal walls A : 200 B : 90 C : 0	m2 290	
<u>ON METAL</u>			
<u>Wash down with sugar soap, rinse with clean water to remove all traces of soap, remove all traces of rust, loose and flaking paint. Spot prime bare metal areas with synthetic metal primer coat, apply one coat universal undercoat and apply two coats polyurethane enamel paint</u>			
2	On window frames A : 31 B : 32 C : 0	m2 63	
3	On door burglar bars A : 16 B : 16 C : 0	m2 33	
4	On door frames A : 21 B : 15 C : 0	m2 36	
<u>ON FIBRE-CEMENT , ETC</u>			
<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
5	On Fascia boards A : 29 B : 29 C : 45	m 103	
6	On 100 x 100mm galvanised mild steel down pipes A : 11 B : 11 C : 0	m 23	
<u>ON WOOD</u>			
<u>Prepare, stop and apply three coats "Plascon" clear oil based wood sealer</u>			
7	On doors A : 0 B : 48 C : 48	m2 97	
<u>Prepare and apply two coats of carbolineum</u>			
8	On exposed roof timbers A : 32 B : 32 C : 0	m2 65	
Carried Forward to Summary of Section No. 2			R
Section No. 2 BUILDING WORKS Bill No. 7			

[illegible]

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 3</u> <u>BILL NO. 1</u> <u>EXTERNAL WORKS (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>TEMPORARY BARRIERS, SCREENS, ECT.</u> <u>Temporary hoarding including dismantling all hoarding, filling all post holes and compacting and levelling to adjacent ground levels, when work is completed:</u> 1 Hoarding formed of 1,8m high galvanised steel weldmesh type fencing with 50 x 100mm apertures, secured to and including 60mm diameter treated gumpole fencing posts 2400mm long at 2m centres, gumpoles securely bedded 600mm deep in ground, medium grade shade cloth securely fastened to and including four rows of 4mm diameter straining wires, fastened to fencing and posts with 2mm diameter galvanised binding wire at 400mm centres, including all excavations, etc. 2 Pedestrian gate size 1000 x 1800mm high complete with all necessary posts, hinges, locking mechanism, etc. <u>THE FOLLOWING IN WATER SUPPLY</u> <u>ALTERATIONS TO EXISTING</u> 3 Locate, cut into and temporarily stop off 40mm diameter water pipe for insertion of stop end (elsewhere). <u>PIPEWORK, ETC.</u> <u>Pipes, pipe fittings, etc.</u>				
		m	120		
		No	1		
		No	1		
	Carried Forward				
	Section No. 3 EXTERNAL WORKS Bill No. 1				

R

	Brought Forward			R	
	<u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>				
4	32mm Pipe and laying in ground not exceeding 1000mm deep.	m	12		
5	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	48		
	<u>Extra over uPVC pipes for the following fittings</u>				
6	32mm bend.	No	10		
7	40mm bend.	No	5		
8	32mm Tee junction.	No	9		
9	40mm Tee junction.	No	6		
10	32 x 40 x 32mm Reducing tee.	No	1		
11	32 x 54 x 32mm Reducing tee.	No	1		
	<u>Water supply valve or meter chambers</u>				
12	Excavate for and build valve chamber size 460 x 460 x not exceeding 1000mm deep internally, formed of 300mm thick layer of well backfilling , 200mm high half brick corbelled sides with 75mm brickforce between each course including Type 3A cast iron valve cover and frame size 100 x 230 x 300 encased in a 300mm thick 25mpa mass concrete base.	No	3		
	<u>Taps, valves, etc.</u>				
13	32mm Gate valve.	No	2		
14	32mm Non return valve.	No	1		
	<u>Testing</u>				
15	Allow for testing the water supply installation in accordance with the National Building Regulations.		Item		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward			R	
	<u>THE FOLLOWING IN SOIL DRAINAGE</u> Pipe depth categories and manholes, catchpits, etc. have been measured to the designed invert levels of same. The Contractor is to allow for in his rates for any additional excavation, bedding, backfilling, making up levels, etc. he deems necessary to make up any difference to actual depth. <u>EXISTING SERVICES</u> Jet or high pressure cleaning to be carried out on subsurface piping, rodding eyes, manholes, etc. to be carried out to the complete satisfaction of the Engineer. <u>Pipes</u>				
16	110mm Pipe fixed to walls.	m	6		
	<u>ALTERATIONS TO EXISTING</u>				
17	Cut into and stop off temporarily 110mm soil pipe for new manhole construction (elsewhere).	No	1		
18	Cut into and stop off temporarily 110mm soil pipe for insertion of Tee junction (elsewhere).	No	1		
	<u>NEW WORKS</u>				
	<u>Class 34 Unplasticised polyvinyl chloride (uPVC) pipes:</u>				
19	110mm Pipe laid in ground or ground filling not exceeding 1m deep on and including bedding cradle and 300mm blanket fill of selected granular material and compact to a minimum of 95% Modified AASHTO dry density in trenches, main fill compacted in layers not exceeding 150mm thick, adjust moisture content to optimum and compact to a minimum of 98% Modified AASHTO dry density in trenches, including excavations, carting and removing surplus material of site, etc,	m	6		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward			R	
20	160mm Pipe laid in ground or ground filling not exceeding 1m deep on and including bedding cradle and 300mm blanket fill of selected granular material and compact to a minimum of 95% Modified AASHTO dry density in trenches, main fill compacted in layers not exceeding 150mm thick, adjust moisture content to optimum and compact to a minimum of 98% Modified AASHTO dry density in trenches, including excavations, carting and removing surplus material of site, etc, <u>Extra over uPVC pipes for fittings</u>	m	60		
21	110mm 90 Degree bend.	No	8		
22	110mm Junction.	No	2		
23	160 x 110mm Reducer junction <u>Rodding eyes, etc.</u>	m	4		
24	PVC Rodding eye and frame and joint to top of 110mm uPVC pipe. <u>Sundries</u>	No	2		
25	300 x 300 x 75mm Precast concrete inspection eye marker slab set in position including excavations, carting away, ect. <u>Testing</u>	No	2		
26	Allow for testing the soil drainage and sewer plumbing installation in accordance with the National Building Regulations. <u>THE FOLLOWING IN ELEVATED TANKS AND GROUND STORAGE (ALL TRADES)</u> <u>ALTERATIONS TO EXISTING</u>		Item		
27	Locate, cut into and temporarily stop off 63mm diameter water pipe for insertion of reducing fitting (elsewhere). <u>Pipes, pipe fittings, etc.</u> <u>Class 12 uPVC water supply pipe with bedding and filling in accordance with SABS 1200</u>	No	2		
28	40mm Pipe.	m	35		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward			R	
29	50mm Pipe.	m	12		
30	40mm Pipe and laying in ground not exceeding 1000mm deep.	m	10		
	<u>Extra over uPVC pipes for the following fittings</u>				
31	40mm Bend.	No	27		
32	50mm Bend.	No	5		
33	40mm Tee junction.	No	2		
34	63 x 40mm Straight reducer	No	2		
	<u>Taps, valves, etc.</u>				
35	40mm float valve kit fitted inside of tank.	No	3		
36	40mm In-line strainer.	No	2		
37	40mm Brass gate valve.	No	3		
38	40mm Brass non return valve.	No	1		
39	40mm Flanged resilient seal gate valve with cap top.	No	2		
40	40mm Flanged pressure reducing valve.	No	1		
	<u>Switch</u>				
41	Float switch fitted inside of tank.	No	2		
	<u>Connections</u>				
	<u>Connection of new to existing pipes</u>				
42	Connection of 40mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	2		
43	Connection of 40mm diameter HDPE to 2.2kw water pump including all necessary reducers, saddles, etc.	No	2		
44	Connection of 63mm diameter HDPE to 40mm diameter galvanised pipes including all necessary reducers, saddles, etc.	No	1		
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward			R	
	<u>Rainwater tanks:</u>				
45	Hole through side of existing tank for 40mm diameter pipe including adaptor.	No	4		
	<u>Ties, cramps, etc.</u>				
46	38 x 1,6mm Galvanised hoop iron strap around tank, both ends fitted with once holed 30 x 30 x 3mm thick galvanised flat plate and bolted together with and including M10 bolt and nut.	No	3		
47	38 x 1,6mm Galvanised hoop iron tie down, 2500mm long, one end wrapped around tank strap and twice bolted, the other end folded over and bolted to top of concrete with and including 8 x 60mm masonry anchor.	No	12		
	<u>Water supply valve or meter chambers</u>				
48	Excavate for and build valve chamber size 565 x 665 x 550mm deep overall formed of precast concrete valve chamber units 1, 2, 3 and 4 with valve box lid-V and 19mm thick layer of 19mm stone in bottom including filling in and ramming.	No	2		
	<u>Pump and Pump House</u>				
49	Allow the Budgetary Allowance of R 15 000,00 (Fifteen Thousand Rand) for the supply and installation of a 2.2 kw water pump to existing pump house.		Item		15,000.00
	<u>ELECTRICAL CONNECTION</u>				
	<u>Elevated Tank Electrical Works</u>				
50	Allow the Budgetary Allowance of R 10 000,00 (Ten Thousand Rand) for the electrical supply to the water pumps, float switches, ect.		Item		10,000.00
	<u>THE FOLLOWING IN SECURITY FENCING</u>				
	<u>SECURITY FENCING</u>				
	The Contractor is to allow in his rates for any site clearance, preparation of ground, etc. in order to carry out the work successfully.				
	Carried Forward			R	
	Section No. 3 EXTERNAL WORKS Bill No. 1				

	Brought Forward				R
	<u>"Clearvu" or equally approved fencing products to be executed in strict accordance with the Manufacturer's instructions</u>				
	<u>Fencing</u>				
51	High security galvanised, marine fusion bond coated, mesh fencing panel, size 15000 x 1800mm high fixed to posts (elsewhere).	No	2		
	<u>Posts</u>				
52	Intermediate locking taper post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	5		
53	End or corner square post, marine fusion bond coated, 2400mm long, with UV stabilised polymer cap including embedding in 400 x 400 x 600mm (25Mpa) concrete base including all necessary excavations, backfilling, etc.	No	2		
	<u>Accessories</u>				
54	100mm High, marine fusion bond coated, steel shark spikes in 1500mm lengths pre-drilled and bolted to top of fencing panels (elsewhere).	m	3		
55	"Union 3122" or other approved 51mm brass padlock with stainless steel shackle.	No	1		
	<u>Sundries</u>				
56	Extra over excavations in earth (concrete bases) for excavation in soft rock.	m3	0.1		
57	Extra over excavations in earth (concrete bases) for excavation in hard rock.	m3	0.1		
	<u>PROVISION OF TEMPORARY TOILETS DURING THE CONSTRUCTION PERIOD</u>				
	<u>Portable toilets</u>				
58	Supply and erecting of the portable chemical toilet during the duration of the contract.	No	5		
	Carried Forward				R
	Section No. 3 EXTERNAL WORKS Bill No. 1				

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u> <u>BILL NO.1</u> <u>PROVISIONAL SUMS</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>PROVISIONAL SUM</u> <u>ELECTRICAL INSTALLATION</u>			
1	Provid the Provisional sum of R 30 000.00 (Thirty Thousand Rand) for the refurbishment of existing electrical installations including replacing lights, plugs and sockets, ect.	Item		30,000.00
2	Add for profit on the above, if desired.	Item		
3	Allow for attendance on the above, if desired.	Item		
	<u>COMMUNITY LIAISON OFFICER (CLO)</u>			
4	Provide the sum of R 19 500.00 (Nineteen Thousand Five Hundred Rand) for the employment of a CLO.(R 6 500.00 per month x contract period allowance)	Item		19,500.00
5	Add for profit on the above if required.	Item		
6	Allow for attendance on the above, if desired.	Item		
	Carried to Summary		R	
	Section No. 4 PROVISIONAL SUMS Bill No. 1			

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	41	
2	BUILDING WORKS	63	
3	EXTERNAL WORKS	71	
4	PROVISIONAL SUMS	72	
	SUB TOTAL (A)		R
	Provide the sum of R30 000.00 (Thiety Thousand Rand) for Contingencies to be used or deducted in full at the Principal Agent's discretion		R
			30,000.00
	SUB TOTAL (B)		R
	Add VAlue Added Tax @ 15%		R
	Carried to Final Form of Tender		R