

Item No		Quantity	Rate	Amount
	<u>SECTION 1</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> <u>BUILDING AGREEMENT AND 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>AGREEMENT</u> The agreement is to be the JBCC Series 2000 Principal Building Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee, March 2005 <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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	Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading <u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u> <u>Definitions (A1)</u> 1 Definitions and interpretation (clause 1) Clause 1.1 Definition of "Agreement" is amended by replacing it with the following: Agreement means the agreement arising from the signing of the Form of Offer and Acceptance by the parties. Clause 1.1 Definition of "Bills of Quantities" is amended by adding the following: "...and the Pricing Instructions contained in the Pricing Data" after the word measuring system. Clause 1.1 Definition of "Contract Documents" is amended by adding the following: ".....this Agreement and all other documents referenced therein.." after the word this document" Clause 1.1 Definition of "Contract Drawings" is amended by replacing it with the following: Contract Drawings means the drawings upon which the tender was accepted and used in preparing the bills of quantities and are available for viewing at the offices of the Principal Agent at the time of tender Clause 1.1 Definition of "Contract Sum" is amended by replacing it with the following: Contract Sum means the total of prices in the Form of Offer and Acceptance. Clause 1.1 Definition of "Schedule" is amended by adding the following: ".....and in the Contract Data". at the end on the sentence ending with agreement			
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Brought Forward Clause 1.1 Definition of "Commencement Date" is added: "Commencement date" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following: "Construction guarantee" means 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: "Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition. Clause 1.1 Definition of "Interest" is amended by replacing it with the following: "Interest" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).		R	
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	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 Fixed Item Value Related Item Time Related Item <u>Objective and Preparation (A2 - A14)</u>			
2	Offer, acceptance and performance (clause 2)			
	Fixed Item Value Related Item Time Related Item			
	Carried Forward		R	
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3	Documents (clause 3)			
	Clause 3.2.1 is amended by replacing "14.1" with "14.0"			
	Clause 3.7 is amended by the addition of the following:			
	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site , to which the employer, principal agent and agents shall have access at all times.			
	Clause 3.10 is amended by replacing the second reference to " principal agent " with the word " employer "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
4	Design responsibility (clause 4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
5	Employer's agents (clause 5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
6	Contractor's site representative (clause 6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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7	Compliance with laws and regulations (clause 7) Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification Fixed Value Related Time Related	Item Item Item		
8	Works risk (clause 8) Fixed Value Related Time Related	Item Item Item		
9	Indemnities (clause 9) Clause 9.0 is amended by adding Clause 9.1.4: The contractor indemnifies and holds harmless the employer against all liability, losses, claims, damages, penalties, actions, proceedings or judgments (collectively referred to as "Losses") arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor, but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in one sum or by installments or otherwise shall be included by the contractor in the price and shall be paid by him to those to whom they may be payable. The contractor shall reimburse the employer for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the employer in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the employer is a party. Fixed	Item		
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	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
10	Works insurances (clause 10) Clause 10.0 is amended by the addition of the following clauses 10.5 Damage to the Works (a) Without in any way limiting the contractor's 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 material paid for by the employer that is the result of the excepted risks as set out in 10.6 (d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof 10.6 Injury to Persons or loss of or damage to Properties (a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for			
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	Brought Forward whose actions the employer is legally liable (b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor (d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion (e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall 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 Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R		
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Brought Forward 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 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)		R	
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	calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
11	Liability insurances (clause 11)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
12	Effecting insurances (clause 12)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
13	No clause (clause 13)			
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14	Security (clause 14) Clause 14.0 is amended by:- i) The addition of the following clauses:- Clause 14.7.3 "Hand the site over to the contractor subject to agreement that shall be made between the employer and the contractor" Fixed Value Related Time Related <u>Execution (A15 - A23)</u>	Item Item Item		
15	Preparation for and execution of the works (clause 15) 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) or latest edition, revision and amendments, within twenty-one (21) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1 Fixed Value Related	Item Item		
	Carried Forward		R	
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	Brought Forward		R	
	Time Related	Item		
16	Access to the works (clause 16)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
17	Contract instructions (clause 17)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
18	Setting out of the works (clause 18)			
	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments			
	The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular intervals to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
19	Assignment (clause 19)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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20	Nominated sub-contractors (clause 20)			
	Clause 20.0			
	Clause 20.1.3 is amended by replacing it with the following:			
	No Clause			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
21	Selected sub-contractors (clause 21)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
22	Employer's direct contractors (clause 22)			
	The Contractor shall allow the direct contractors and employer's agents access to the work, allocate reasonable space in the building for storage of their materials, tools and equipment, all to the satisfaction of the Principal Agent. The contractor shall also allow the direct contractors, etc. free of charge, use of their ablution facilities and water and power supply to the and shall in no way hinder or prevent the execution of their works. Attendance may be priced against the relevant specified items in the bills of quantities.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
23	Contractor's domestic sub-contractors (Clause 23)			
	Fixed	Item		
	Value Related	Item		
	Carried Forward		R	
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		Brought Forward		R	
		Time Related	Item		
		<u>COMPLETION</u>			
		<u>Completion (A24-A30)</u>			
24	Practical completion (clause 24)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
25	Works completion (clause 25)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
26	Final completion (clause 26)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
27	Latent defects liability period (clause 27)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
28	Sectional completion (clause 28)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
29	Revision of date of practical completion (clause 29)				
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Brought Forward Clause 29.1.1 shall be deemed to be omitted and replaced by the following: Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calendar month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above Add Clause 29.9 as follows: Revision to the date for practical completion shall only be considered when work on the critical path of the agreed programme for the works is delayed." Add Clause 29.10 as follows: Clause 29.10 - Acceleration Clause 29.10.1 Irrespective of whether or not the principal agent rules that the contractor is entitled to an extension of time or a revision of the date for practical completion, the principal agent shall nevertheless, at any time, be entitled to instruct the contractor in writing to accelerate the progress of the remaining works to ensure that the works are completed by the original date for practical completion or revised date as the case may be. Clause 29.10.2 Upon receipt of such instruction, the contractor shall take all necessary steps to ensure that the works are completed timeously including the provision by him of additional resources, plant, manpower, etc and the working overtime or additional overtime beyond that contemplated at the time of tender (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The contractor shall prove that such steps are being taken if called upon to do so. Clause 29.10.3 The contractor's entitlement to compensation		R	
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	Brought Forward		R	
	arising out of or in respect of any revision to the date for practical completion that may have been granted by the principal agent or alternatively where the principal agent has instructed the contractor to accelerate, shall be adjudicated strictly in terms of clause 32.			
	Fixed			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
30	Penalty for non-completion (clause 30)			
	Clause 30 is amended by replacing reference to 36.3 at end of sentence with 36.0			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Payment (A31 - A35)</u>			
31	Interim payment to the contractor (clause 31)			
	Clause 31.9 is amended by replacing "seven (7) calender days" with "thirty (30) calender days" and by deleting the words "subject to the contractor giving the employer a tax invoice for the amount due			
	Clause 31.12 is amended by deleting the following			
	Payment shall be subject to the employer giving the contractor a tax invoice for the amount due			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	Brought Forward		R	
32	Adjustment to the contract value (clause 32)			
	Clause 32.0			
	Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:			
	"due to no fault of the contractor "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
33	Recovery of expense and loss (clause 33)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
34	Final account and final payment (clause 34)			
	Clause 34.0			
	Clause 34.2 is amended by inserting # next to 34.2			
	Clause 34.13 is amended by replacing "seven (7) calendar days " with "thirty (30) calendar days " and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
35	Payment to other parties (clause 35)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>Cancellation (A36-A39)</u>			
36	Cancellation by employer - contractor's default (clause 36) Clause 36.1 is amended by the additions 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: 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	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
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	Brought Forward		R	
37	Cancellation by employer - loss and damage (clause 37) 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: 37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever Fixed Value Related Time Related	Item		
38	Cancellation by contractor - employer's default (clause 38) 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: 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		
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39	Cancellation - cessation of the works (clause 39) Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one-hundred and twenty (120) working days of completion of such report" Fixed Value Related Time Related <u>Dispute Settlement (A40)</u>	Item Item Item		
40	Disputes Settlement (clause 40) Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years" Clause 40.6 is amended by removing the reference to: No clause Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following: Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs. Fixed Value Related Time Related <u>State Provision (A41)</u>	Item Item Item		
	Carried Forward		R	
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	Brought Forward		R	
41	State Substitutions (clause 41) Delete in the Substitute Provisions (41.0 State Clauses) clauses 40.2.1, 40.2.2, 40.3, 40.4, 40.5 and 40.6 and replace with the following: 40.1 Should any dispute between the employer, his agents or principal agent on the one hand and the contractors on the other arise out of this agreement, such dispute shall be referred to adjudication. 40.2 Adjudication shall be conducted in accordance with the edition of the JBCC Rules for Adjudication current at the time when the dispute is declared. The party, which raises the dispute, shall select three adjudicators from the panel of adjudicators published by the South African Institution of Civil Engineering or Association of Arbitrators (Southern Africa), determine their hourly fees and confirm that these adjudicators are available to adjudicate the dispute in question. The other party shall then select within 7 days one of the three nominated adjudicators, failing which the chairman for the time being of the Association of Arbitrators (Southern Africa) shall nominate an adjudicator. The adjudicator shall be appointed in terms of the Adjudicators Agreement set out in C1.4 . 40.3 If provided in the schedule, a dispute shall be finally settled by a single Arbitrator to be agreed on between the parties or, failing such agreement within 28 days after referring the dispute to Arbitration, an Arbitrator nominated by the chairman for the time being of the Association of Arbitrators (Southern Africa). Any such reference shall be deemed to be a submission to the arbitration of a single arbitrator in terms of the Arbitration Act (Act No 42 of 1965, as amended), or any legislation passed in substitution therefore. In the absence of any other agreed procedure, the arbitration shall take place in accordance with the Rules for the Conduct of Arbitrations issued by the Association of Arbitrators (Southern Africa) which are current at the time of the referral to arbitration. The Arbitrator shall, in his award, set out the facts and the provisions of the contract on which his award is based. 40.4 If the schedule provides for court proceedings to			
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	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definition and interpretation (B1)</u>			
43	Definition and interpretation			
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Documents (B2)</u>			
44	Checking of documents (B2.1)			
	These bills of quantities:			
	(1) contain pages and annexes as indexed, and;			
	(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances			
	Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
45	Provisional bills of quantities (B2.2)			
	Fixed	Item		
	Value Related	Item		
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	Time Related	Item		
46	Availability of construction documentation (B2.3)			
	The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
47	Interests of agents (B2.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
48	Priced documents (B2.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
49	Tender submission (B2.6)			
	Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders			
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance C1.1"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	<u>The site (B3)</u>			
50	Defined works area (B3.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
51	Geotechnical investigation (B3.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
52	Inspection of the site (B3.3)			
	Tenderers are instructed to familiarise themselves before submission of their tender with regard to the relevant local site conditions, site accessibility, the nature of operations required, availability of labour and any conditions pertaining thereto, together with conditions relating to unloading, carting and storage of materials, equipment and tools required for the works.			
	No claims for extras arising from the contractor having failed to comply with this clause will be entertained			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
53	Existing premises occupied (B3.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
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	Brought Forward		R	
54	Previous work - dimensional accuracy (B3.5)			
	Work executed under a previous contract and the extent thereof will be pointed out to the contractor by the principal agent on handing over of the site			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
55	Previous work - defects (B3.6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
56	Services - known (B3.7)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
57	Services - unknown (B3.8)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
58	Protection of trees, etc (B3.9)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
59	Articles of value (B3.10)			
	Fixed	Item		
	Carried Forward		R	
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	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
60	Inspection of adjoining properties, etc (B3.11)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Management of contract (B4)</u>			
	Management of the works (B4.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
61	Programming for the works (B4.2)			
	Clause B4.2 is hereby amended by the addition of the following:			
	Programme:			
	The contractor and the principal agent shall agree to a Contract Programme for the control of the Works.			
	The contractor shall submit a draft of the Contract Programme and method statement to the principal agent for approval together with the tender.			
	The contractor shall ensure that the contract programme:			
	1. Shall be prepared and drawn up to comply in all respects with the requirements of this Agreement.			
	2. shall be drawn up using logic developed during the tender period and complies with the planning requirements of the Client.			
	3. shall be in accordance with the dates given herein for possession and practical completion; and			
	4. shall be in sufficient and approved detail to			
	Carried Forward		R	
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	Brought Forward ensure effective control of the work, including all items necessary to enable calculations to be made for the distribution of finance during the cashflow analysis. 5. shall be accompanied by a full written method statement The principal agent shall examine and comment on the contract programme and method statement within two weeks of its submission. Following on these comments the contractor shall amend the contract programme and method statement as may be necessary and submit the final contract programme and method statement to the principal agent for approval within a further two weeks thereafter. The contract programme shall be processed by computer and be presented to the principal agent in the form of logic charts and bar charts in such a way as to determine the critical path and the float on non-critical activities. All supporting printouts must be available to the principal agent on demand. The acceptance by the principal agent of the contract programme, or any revision thereof, does not necessarily sanction the accuracy of validity of the network logic, the correctness of individual activities in terms of description or duration, the comprehensiveness of networks or the discrepancies between drawings and any other documents presented by the contractor, and in no way relieves the responsibility of the contractor to comply with the requirements of the Agreement. No policy decisions other than the planning requirements, procedures and policies provided, will be enforced on the contractor regarding construction of the project and the contractor shall be responsible at all times for ensuring the accuracy, validity and reasonableness of programming information. Documentation will not be available in complete detail at the date of award of the contract. Non-availability of information will not be deemed an excuse for non-presentation of programmes. In the event of inadequate information, the contractor shall estimate the predicted time applications on available information and quality the submission accordingly. Development of the contract programme and method statement Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	
			R	

Brought Forward Within two weeks of award of the contract, the contractor shall submit an updated contract programme and written method statement which shall include the latest information in sufficient detail to permit comprehensive monitoring. Progress of the works will be monitored by the principal agent. The contractor shall liaise with the principal agent in order to provide whatever information is required to facilitate such monitoring. Revisions to the contract programme Revisions to the contract programme may be introduced periodically by the contractor subject to compliance with the contract completion and handover dates. Providing the required consultation between the relevant parties has highlighted the implications of the required changes, the programming strategy on the project may be changed and the changes noted and specified on logic charts delivered to the principal agent. The changes to the programme will be recorded as firm and binding once the principal agent has sanctioned the said changes. A revision to the programme will not invalidate the contractual completion dates and applications for extensions of time will be processed by the principal agent in accordance with the conditions of contract. Should the contractor fail to submit a request for revision to the construction programme, progress monitoring shall be based on the latest revised programme sanctioned by the principal agent. The contractor shall make all his necessary revisions on the approved network sheets clearly marking, inter-alia, the logic changes and duration changes. These will then be processed by the necessary parties and then approved in the normal manner. Progress Monitoring The contractor shall provide regular progress reports showing actual and expected progress against the latest contract programme. Progress reports shall be submitted at each site progress meeting and shall outline the progress against key target dates and deviation which has occurred against the most recently updated control programme due to the progress reflected in the as-built construction programme.		R	
Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	

Brought Forward The status of each activity must also be reported as follows: Target - If the activity is not complete, the latest predicted completion date shall be supplied. Start - If the activity has commenced, the actual date shall be supplied. Finish - If the activity is complete, the actual completion date shall be supplied. Problems which may occur during execution of the contract must be specifically identified in progress reports under a separate section of the contractor's report. Should problems occur during the execution of the contract or the scope of work be increased or decreased, the contractor may be requested to increase the extent or the detail of the programme. The principal agent may recommend action to be taken by the contractor, including the revision of resource levels, but this information will not be binding on the contractor unless the recommendations are enforced in terms of the conditions of contract by the principal agent and will in no way relieve the contractor's responsibility to comply with the requirements of the Agreement. Extension of time Any extension of time which is granted by the principal agent will be annotated to affect selected activities in the programme and the associated activities will be incorporated by revisions to the programme by the contractor. Should the additional activities or the extension of time on existing activities fall on a non-critical area of the programme, extension will be limited to the activities affected by the said additional activities or extensions and the contract dates shall not be affected. If, however, the additional activities fall on the critical path, the principal agent shall take this into account when granting any extension of time in terms of the conditions of contract. The contractor agrees that the contract completion date (i.e. the date for practical completion) has been stipulated in the contract for the benefit of the employer, so that, without derogating from the generality of the foregoing principle it is provide that:		R	
Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	

	Brought Forward		R	
	1. The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and 2. Should there for any reason be any float period indicated in the contract programme prior to the contractual completion date then this float period shall be utilized to absorb any delays or extensions of time without affecting the contract completion date. 3. The contractor shall, at all times, ensure that, notwithstanding the approval or sanctioning, reviewing or inspection of a programme or any revision of a programme by the principal agent in the foregoing terms, practical completion and completion of the works shall take place strictly in accordance with this Agreement. A defective or faulty programme, even if so sanctioned, approved, reviewed or inspected by the principal agent, shall therefore not constitute a cause for granting an extension of time for completion of the works or for entitling the contractor to the payment by the employer in terms of the contract of any loss, compensation or damage whatsoever. The contractor acknowledges that the principal agent's foregoing participation in the approval of development of, revisions to and updating of the Contract Programme shall take place in consultation with the principal agent. The contractor shall therefore provide the principal agent with such co-operation and/or information and/or access as they may reasonably require for such purposes.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
62	Progress meetings (B4.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

		Brought Forward		R	
63	Technical meetings (B4.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
64	Labour and plant records (B4.5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<u>Samples, shop drawings and manufacturer's instructions (B5)</u>				
65	Samples of materials (B5.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
66	Workmanship samples (B5.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
67	Shop drawings (B5.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
68	Compliance with manufacturer's instructions (B5.4)				
		Fixed	Item		
		Value Related	Item		
		Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1				

		Brought Forward		R	
		Time Related	Item		
		<u>Temporary works and plant (B6)</u>			
69	Deposits and fees (B6.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
70	Enclosure of the works (B6.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
71	Advertising (B6.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
72	Plant, equipment, sheds and offices (B6.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
73	Main notice board (B6.5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
74	Subcontractors notice board (B6.6)				
		Fixed	Item		
		Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1				

		Brought Forward		R	
		Value Related	Item		
		Time Related	Item		
		<u>Temporary services (B7)</u>			
75	Location (B7.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
76	Water (B7.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
77	Electricity (B7.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
78	Telecommunication facilities (B7.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
79	Ablution facilities (B7.5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1				

	Brought Forward		R	
	<u>Prime cost amounts (B8)</u>			
80	Responsibility for prime cost amounts (B8.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Attendance on nominated and selected subcontractors (B9)</u>			
81	General attendance (B9.1)			
	The schedule rates providing for attendance on nominated subcontractors and other contractors , will be adjusted only if the scope of the work has changed			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
82	Special attendance (B9.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
83	Commissioning - Fuel, water and electricity (B9.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Financial aspects (B10)</u>			
84	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)			
	Fixed	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
85	Payment of preliminaries (B10.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
86	Adjustment of preliminaries (B10.3)			
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site " with "when submitting his priced bills of quantities "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
87	Payment certificate cash flow (B10.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>General (B11)</u>			
88	Protection of works (B11.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
89	Protection/isolation of existing/sectionally occupied works(B11.2)			
	Fixed	Item		
	Carried Forward		R	
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		Brought Forward		R	
		Value Related	Item		
		Time Related	Item		
90	Site security (B11.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
91	Notice before covering work (B11.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
92	Disturbance (B11.5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
93	Enviromental disturbance (B11.6)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
94	Works cleaning and clearing (B11.7)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
95	Vermin (B11.8)				
		Fixed	Item		
		Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1				

		Brought Forward		R	
		Value Related	Item		
		Time Related	Item		
96	Overhand work (B11.9)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
97	Instruction manuals and guarantees (B11.10)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
98	As built information (B11.11)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
99	Tenant installations (B11.12)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
	<u>Schedule of variables (B12)</u>				
100	Pre-tender information (B12.1)				
	This schedule contains all variables referred to in this document and is divided into pretender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.				
		Fixed	Item		
		Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1				

	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
12.1.1	Provisional bills of quantities (B12.1.1)			
	The quantities are provisional:			
	Yes			
12.1.2	Availability of construction documentation (B12.1.2)			
	Construction documentation is complete:			
	Yes			
12.1.3	Interest of agents (B12.1.3)			
	No			
12.1.4	Defined works area (B12.1.4)			
	The area of the works to be occupied by the contractor , any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site			
12.1.5	Geotechnical investigation (B12.1.5)			
	The geotechnical report is available for viewing at the offices of the principal agent			
	Yes			
12.1.6	Existing premises occupied (B12.1.6)			
[3.4]	Specific requirements: The contractor shall execute the works with as little noise and disturbance as possible			
12.1.7	Previous work - Dimensional accuracy (B12.1.7)			
[3.5]	Details: No additional details			
12.1.8	Previous work - defects			
[3.6]	Details: No additional details			
	Carried Forward		R	
Section No. 1				
PRELIMINARIES				
Bill No. 1				

Brought Forward 12.1.8 Services - known (B12.1.9) [3.7] Details: Existing services and points of connection are shown on site plan and/or will be pointed out on site by the principal agent 12.1.10 Protection of trees [3.9] Specific requirements: No trees to be damaged or removed except those specifically designated in writing by the principal agent 12.1.11 Inspection of adjoining properties [3.11] Specific requirements: None 12.1.12 Enclosure of the works [6.2] Specific requirements: Areas where work is taking place shall at all times be blocked off by appropriate means 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. Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	
		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 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) Yes 12.1.17 Electricity [7.3] Option A (by contractor) (yes/no) Yes 12.1.18 Telecommunications [7.4] Telephone (yes/no) Yes Facsimile (yes/no) Yes E-mail (yes/no) Yes Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	
		R	

Brought Forward 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) Yes 12.1.21 Special attendance The contractor must obtain information from all subcontractors at tender stage regarding special attendance that might be required and make allowance for each and every subcontract that requires special attendance [9.2] Subcontractor (1) Details: Subcontractor (2) Details: Subcontractor (3) Details: 12.1.22 Protection of the works [11.1] Specific requirements: All work that requires protection during construction must be adequately protected up to practical completion by the contractor 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: None Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	
		R	

	Brought Forward		R	
101	Post-tender information (B12.2) All post-tender information for this section will be determined once tender is awarded Fixed Item Value Related Item Time Related Item 12.2.1 Payment of preliminaries [10.2] Option A (prorated) (yes/no) Yes Option B (calculated) (yes/no) No 12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) (yes/no) Yes Option B (detailed breakdown) (yes/no) No 12.2.3 Additional agreed preliminaries items Details: None			
102	Other post tender information (B12.3) All post-tender information for this section will be determined once tender is awarded Fixed Item Value Related Item Time Related Item			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	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			
103	Clause C1 - Contract drawings			
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed			
	Should any part of the drawings not be clearly understood by the the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
104	Clause C2 - General Preambles			
	The "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the trades is deemed to be included herein and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
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	Brought Forward		R	
105	Clause C3 - Site instructions All site instructions issued on site shall be recorded in writing within seven (7) calendar days in site instruction book (A4 size and triplicate carbon format), which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only Site instructions may be issued by the architect or any of the consultants only. Copies of the site instructions are to be submitted to the architect and quantity surveyor within seven (7) calendar days of such recording in the site instruction book Fixed Value Related Time Related	Item Item Item		
106	Clause C4 - Trade Names Wherever a trade name for any product has been described in the bills of quantities , the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for Fixed Value Related Time Related	Item Item Item		
107	Clause C5 - 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 authorized and indicated in writing, prior to the execution thereof, that costs for such overtime will to be borne by the employer Fixed	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
108	Clause C6 - 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			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
109	Clause C5 - Labour record			
	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			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
110	Clause C6 - Plant record			
	At the end of each calendar week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
111	Clause C7 - Non-cession of monies The contractor shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract Fixed Value Related Time Related	Item Item Item		
112	Clause C8 - Occupational Health and Safety Act The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993). It is required of the contractor to thoroughly study the latest Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document . The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent , notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment. Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained. Fixed Value Related Time Related	Item Item Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
113	Clause C8.1 - Occupational Health and Safety Specification. Preparation of contractor's site specific health and safety plan, including compliance with Covid-19 legislation, regulations and guidelines.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
114	Clause C8.2 - Occupational Health and Safety Specification. Principal contractor's initial obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
115	Clause C8.3 - Occupational Health and Safety Specification. Principal contractor's time related obligations in respect of the Health and Safety Act, Construction Regulations and Covid-19 regulations, etc.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
116	Clause C8.4 - Provision of personal protective equipment (PPE) Provision of reflective vests			
	Fixed	Item		
	Value Related	Item		
	Carried Forward		R	
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	Brought Forward		R	
	Time Related	Item		
117	Clause C8.5 - Provision of personal protective equipment (PPE)			
	Provision of hard hats			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
118	Clause C8.6 - Provision of personal protective equipment (PPE)			
	Provision of protective footwear			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
119	Clause C8.7 - Provision of personal protective equipment (PPE)			
	Provision of earplugs			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
120	Clause C8.8 - Provision of personal protective equipment (PPE)			
	Provision of dust masks			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
121	Clause C8.9 - Provision of personal protective equipment (PPE)			
	Provision of gloves			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
122	Clause C8.10 - Provision of personal protective equipment (PPE)			
	Provision of high visibility overalls to SARTSM Chapter 13 level 3			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
123	Clause C8.11 - Provision of personal protective equipment (PPE)			
	Provision of SANS approved ear defenders			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
124	Clause C8.12 - Provision of personal protective equipment (PPE)			
	Provision of face masks (Covid-19)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
125	Clause C8.13 - Provision of personal protective equipment (PPE)			
	Provision of face shields (Covid-19)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
126	Clause C8.14 - Provision of personal protective equipment (PPE)			
	Provision of gloves (Covid-19)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
127	Clause C8.15 - Provision of personal protective equipment (PPE)			
	Provision of hand sanitiser (min 70% alcohol), foot press stands and paper towels (Covid-19)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
128	Clause C8.16 - Provision of personal protective equipment (PPE)			
	Provision of covered refuse bins and refuse bags and waste (including hazardous) management (Covid-19)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
129	Clause C8.17 - Provision of personal protective equipment (PPE) Provision of digital infrared non-contact body thermometer (Covid-19, minimum of two per site entrance) Fixed Value Related Time Related	Item Item Item		
130	Clause C8.18 - Provision of personal protective equipment (PPE) Provision of perspex screens for office staff (Covid-19 minimum size 600 x 500mm) Fixed Value Related Time Related	Item Item Item		
131	Clause C8.19 - Provision of personal protective equipment (PPE) Provision of signage, including Covid-19 related signage Fixed Value Related Time Related	Item Item Item		
132	Clause C8.20 - Provision of personal protective equipment (PPE) Provision of full time construction health and safety officer (SACPCMP Registered) Fixed Value Related Time Related	Item Item Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
133	Clause C8.21 - Provision of personal protective equipment (PPE) Medical certificates and medical surveillance, including initial (baseline) medical examinations, periodic examinations and exit examinations Fixed Value Related Time Related	Item Item Item		
134	Clause C8.22 - Provision of personal protective equipment (PPE) Medical screenings, examinations, etc in terms of Covid-19 regulations Fixed Value Related Time Related	Item Item Item		
135	Clause C8.23 - Provision of personal protective equipment (PPE) Induction of training, including Covid-19 training Fixed Value Related Time Related	Item Item Item		
136	Clause C8.24 - Provision of personal protective equipment (PPE) Provision of first aid boxes to GSR requirements Fixed Value Related Time Related	Item Item Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
137	Clause C8.25 - Provision of personal protective equipment (PPE) Noise monitoring including establishment of noise zones (plant), audiograms (personnel), etc Fixed Value Related Time Related	Item Item Item		
138	Clause C8.26 - Provision of personal protective equipment (PPE) Submission of health and safety file Fixed Value Related Time Related	Item Item Item		
139	Clause C9 - Viewing of the school areas The site is situated in a school area and the tenderer must arrange with the Principal or other responsible school staff to obtain permission to enter the site for tendering purposes Fixed Value Related Time Related	Item Item Item		
140	Clause C10 - Commencement of Works in School Areas As the works falls within a school area the contractor must give the Principal or other responsible staff member notice before commencement of the works . Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account Fixed Value Related	Item Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

Brought Forward			R
	Time Related	Item	
141	Clause C11 - Entrance Permits to School Areas		
	As the works falls within a school area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Principal, or chief security officer		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
142	Clause C12 - Security Check of Personnel		
	Fixed	N/A	
	Value Related	N/A	
	Time Related	N/A	
Carried Forward			R
Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
143	Clause C13 - HIV/Aids Awareness It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities . Provision for pricing of HIV/AIDS awareness is made under items 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 Fixed Value Related Time Related	Item Item Item		
144	Clause C13.1 - Awareness Champion Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related	Item Item Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
145	Clause C13.2 - Awareness Workshop Selection and appointment of a competent Service Provider approved by the principal agent , provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related	Item Item Item		
146	Clause C13.3 - Posters, booklets, videos, etc. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period , all in accordance with the HIV/AIDS Specification Fixed Value Related Time Related	Item Item Item		
147	Clause C13.4 - 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	Item Item Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

	Brought Forward		R	
148	Clause C13.5- 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 FixedItem Value RelatedItem Time RelatedItem			
	Carried to Final Summary		R	
	Section No. 1 PRELIMINARIES Bill No. 1			

Item No		Quantity	Rate	Amount
	<u>RENOVATIONS (PROVISIONAL)</u>			
	<u>BILL NO.1</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specificaions of material and methods to be used - PW371"			
	<u>DEMOLITIONS AND ALTERATIONS</u>			
	<u>Taking out and removing pressed steel door frames and steel/timber doors including repairs to brickwork and preparation thereof to receive new frames</u>			
1	Allow for making good in all trades to existing work where damaged or disturbed or defaced in any way through alterations, with all necessary new materials to match existing and leave complete and perfect in every respect	Item		
2	Supply and erect any temporary tarpaulins, dust or weatherproof screens and barriers that may be necessary during the progress of the Contract, all to the satisfaction of the Architect and remove when directed	Item		
3	Allow for watering the works with a jet or spray from a hose sufficient to prevent any nuisance from dust	Item		
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Breaking down existing brick work:</u>			
4	Half brick wall	m2	7	
5	One brick wall	No	7	
	<u>Breaking down and remove mass concrete, etc:</u>			
6	150mm Thick surface bed with and including filling channel and levelling the site to receive new concrete surface bed (surface bed elsewhere measured)	m2	60	
	Carried Forward		R	
	Section No. 2 RENOVATIONS Bill No. 1			

Brought Forward			R
	<u>Taking out and removing doors etc. and prepare to receive new door and door frame in same position</u>		
7	Timber single door and frame 813 x 2032mm high	No	12
	<u>Taking out and removing ironmongery</u>		
8	Brass sliding stays	No	20
9	Brass window handles	No	25
	<u>Taking out and removing glass and mirrors</u>		
10	Vitreous china WC pan with cistern	No	10
11	Glass from steel window including cleaning out rebates and preparing for new glass	m2	20
12	Vitreous china wall hung bowl urinal	No	10
	<u>BREAKING UP OPENINGS</u>		
	<u>Breaking down existing brick work for opening for door size 900 x 2032mm high:</u>		
13	One brick wall	No	4
	<u>PREPARATORY WORK TO EXISTING SURFACES</u>		
	<u>Making good internal cement plaster</u>		
14	Walls in patches	m2	50
Carried Forward to Summary of Section No. 2			R
Section No. 2			
RENOVATIONS			
Bill No. 1			

Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - OW 371"			
	<u>TEST CUBES</u>			
1	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	2	
	<u>UNREINFORCED CONCRETE</u>			
	<u>20MPa/19mm concrete</u>			
2	Surface beds cast in panels	m3	3	
3	Surface beds cast in panels on waterproofing	m3	3	
4	Aprons cast in panels	m3	3	
5	Ramps	m3	2	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
6	Surface beds, slabs, etc	m2	70	
7	Surface beds, slabs, etc. to falls	m2	10	
	<u>Finishing top surfaces of concrete smooth with a wood float including non-slip brush finish</u>			
8	Ramps to falls	m2	4	
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
	Carried Forward		R	
	Section No. 2 RENOVATIONS Bill No. 2			

Item No		Quantity	Rate	Amount
	BILL NO 4 WATERPROOFING PREAMBLES For preambles see "Specification of materials and methods to be used - OW 371" DAMPPROOFING OF WALLS AND FLOORS <u>One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions.</u>			
1	Under surface beds	m2	70	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 RENOVATIONS Bill No. 3			

Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - OW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Plate nailed timber roof truss construction</u>			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 1100mm centres Roof covering is 0,6mm corrugated iron sheeting on purlins. Ceilings are 4mm sheeting on 38 x 38mm bracing. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on the site before design or fabrication commences			
	The design, manufacture and transportation of the roof trusses, bracing etc. shall be under the control of a registered Engineer (in accordance with the draft SABS Code of Practice for the Design of Timber Structure) and 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 Trusses must further be in accordance with SABS 0163 as well as the additional requirements of OW 371 Clause 8.10 and must be approved by the Representative/Agent. The manufacturer of the trusses shall supply a written guarantee that the trusses are designed, manufactured and erected to support the roof covering specified. The guarantee shall be valid for a period of 10 (ten) years.			
	<u>Sawn softwood grade 4</u>			
1	38 x 114mm Wall plates	m	125	
2	38 x 114mm Cross bracing	m	23	
3	50 x 76mm Support batten	m	23	
	Carried Forward		R	
	Section No. 2 RENOVATIONS Bill No. 4			

Brought Forward				R	
4	50 x 76mm Purlins	m	285		
	<u>Wrought softwood grade 4</u>				
5	50 x 76mm Purlins	m	47		
	<u>Sundries</u>				
6	Two coats creosote on sawn timbers	m2	99		
	<u>EAVES, VERGES, ETC.</u>				
	<u>Pressed fibre-cement</u>				
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	79		
	<u>DOORS, ETC.</u>				
	<u>Wrought meranti doors hung to steel frames</u>				
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard	No	12		
Carried Forward to Summary of Section No. 2				R	
Section No. 2					
RENOVATIONS					
Bill No. 4					

Item No		Quantity	Rate	Amount
	BILL NO 7			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - OW 371"			
	<u>CEILINGS ETC</u>			
	<u>Insulation</u>			
1	50 mm "Thermguard" cellulose fibre insulation or similar approved applied strictly in accordance with the manufacture's instruction.	m2	49	
	<u>Sawn softwood</u>			
2	38 x 114mm Ceiling joists (Provisional)	m	49	
	<u>Wrought meranti</u>			
3	19 x 76mm Cornices nailed	m	128	
	<u>NAILED-UP CEILINGS, ETC.</u>			
	<u>4mm Fibre-cement boards with standard H-type pressed steel jointing strips</u>			
4	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	49	
5	Sloping ceilings including 38 x 38mm sawn softwood brandering at 400mm centres	m2	8	
6	Extra over ceiling for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	3	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 RENOVATIONS Bill No. 5			

Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - OW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	5	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	50mm Padlock	No	5	
3	Four lever lockset	No	5	
4	Indicator lockset	No	3	
	<u>HANDLES</u>			
	<u>Aluminium Pull Handle</u>			
5	Set of two, 300mm pull handles fixed back to back on doors	No	3	
	<u>SUNDRIES</u>			
6	25mm Diameter wall mounted door stop plugged	No	5	
	<u>DOOR CLOSERS</u>			
	<u>"Dorma"</u>			
7	TS90/EN3 S "Impulse" slide channel door closer and non-hold open action	No	1	
	<u>PUSH PLATES AND KICKING PLATES</u>			
	Carried Forward		R	
	Section No. 2 RENOVATIONS Bill No. 6			

Brought Forward				R
	<u>1.2mm Thick satin finished "Union" stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>			
8	200 x 800mm Type "SS5089-200W" kicking plate	No	5	
9	200 x 800mm Type ""SS5089-200W" push plate	No	10	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
10	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2	
11	SS5066E-06SSE14 stainless steel pictogram engraved with a disabled sign	No	1	
	<u>"Vaal Paragon" or similar approved</u>			
12	32mm Type 9 back grab rail 800mm long plugged	No	2	
13	32mm Type 8 side grab rail 900mm girth plugged	No	2	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
14	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	12	
	<u>Stainless steel</u>			
15	Stainless steel mirror size 350 x 400mm plugged to wall with chrome plated screws.	No	1	
	<u>Sundries</u>			
16	Female SHE BIN plugged to walls	No	2	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
RENOVATIONS				
Bill No. 6				

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - OW 371"			
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Gates to external doors</u>			
1	Single gate and frame 813 x 2032mm high of 25 x 25 x 2mm hollow section frame and 25 x 25 x 2mm hollow section horizontal middle rail filled in with 12 x 12mm square section vertical rails at 75mm centers and fitted with a pair of suitable hinges welded to frame and with locking mechanism for padlock all in and including outer frame of 25 x 25 x 2mm hollow section welded frame bolted to brickwork	No	5	
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No	10	
	<u>CORNER PROTECTORS</u>			
3	50 x 50 x 4mm Angle section fixed to edge of floor	m	10	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 RENOVATIONS Bill No. 7			

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u>			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	"Enviro Loo System FG-1040 STDCA/A Standard" installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvered inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), toilet pan, seat and lid (PL.4), 3500mm long outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary interconnector piping between multiple tanks, emergency outlet piping, etc	No	12	
2	"Enviro Loo Urinal Evaporative Tank System code FG-862B " installed strictly in accordance with manufacturers instructions, unit comprising of urinal evaporative tank (PL.1), urinal bowl (PL.5), 3500mm long outlet vent pipe (PL.3), ventilation extraction unit (PL.3) fixed to wall with vent wall bracket (PL.4), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary piping, traps, etc	No	11	
3	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	3	
	<u>BUDGETARY ALLOWANCE</u>			
	<u>SUPERVISION OF INSTALLATION OF "ENVIRO LOO"</u>			
4	Two site visits to be made by the "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between Mvula Trust and Enviro Loo Options Limpopo.	Item		8 000,00
5	Profit and attendance for the above	Item		800,00
	Carried Forward		R	
	Section No. 2 RENOVATIONS Bill No. 9			

Brought Forward			R
	For preambles see "Specification of materials and methods to be used - OW 371"		
	<u>"Vaal"</u>		
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>		
6	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1
7	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 774000) and matching 9 litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat	No	10
8	Vaal vitreous china "Protea paraplegic 90 degree" outlet pan (code 7502) and matching 9 litre cistern (code 710536) complete with lid, fitments and purpose made C.P side flush lever mounted on wall adjacent to cistern. (Grab rails to be supplied by CHAIRMAN INDUSTRIES).	No	3
9	Flat back urinal overall size 295 x 315 x 415mm high with 40mm chromium plated domical grating (Code 878720) and top inlet spreader (Code 8543) with two hanger brackets with flushmaster junior (Code 812720) hung to wall	No	14
	<u>FITTINGS</u>		
10	19mm chrome plated push button taps to wash troughs	No	5
11	Elbow taps	No	10
12	40 x 50mm No 365/50 Chromium-plated bottle trap	No	5
	<u>SANITARY PLUMBING</u>		
	<u>uPVC pipes</u>		
13	50mm Pipes	m	20
14	50mm Pipes laid in and including trenches n.e 1m deep	m	15
15	110mm Pipes	m	60
	Carried Forward		R
	Section No. 2 RENOVATIONS Bill No. 9		

Brought Forward				R	
16	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	30		
	<u>Extra over uPVC pipes for fittings</u>				
17	50mm Bend	No	20		
18	50mm Junction	No	10		
19	50mm Access junction	No	10		
20	110mm Pan connector	No	5		
21	100mm Bend	No	20		
22	110mm Junction	No	10		
23	110mm Reducing junction	No	10		
24	110mm Access bend	No	10		
25	110mm Double junction	No	10		
26	110mm "GI Two-way" vent valve	No	5		
	<u>Sundries</u>				
27	Testing waste pipe system		Item		
	<u>WATER SUPPLIES</u>				
	<u>Class 16 uPVC pressure pipes with solvent welded joints</u>				
28	32mm Pipes laid in and including trenches not exceeding 1m deep	m	20		
29	50mm Pipes laid in and including trenches not exceeding 1m deep	m	30		
	<u>Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints</u>				
30	32mm Bend	No	10		
31	32mm Reducer	No	5		
32	32mm Tee	No	5		
	Carried Forward			R	
	Section No. 2 RENOVATIONS Bill No. 9				

Brought Forward			R
33	50mm Bend	No	5
34	50mm Tee	No	5
<u>Class 0 copper pipes</u>			
35	15mm Pipes	m	20
36	22mm Pipes	m	10
<u>Extra over class 0 copper pipes for capillary fittings</u>			
37	15mm Fittings	No	5
38	22mm Fittings	No	2
<u>TESTING</u>			
39	Allow for testing the whole internal plumbing and drainage installation		Item
Carried Forward to Summary of Section No. 2			R
Section No. 2 RENOVATIONS Bill No. 9			

Item No		Quantity	Rate	Amount
	<u>BILL NO 12</u> <u>GLAZING</u> <u>PREAMBLES</u> For preambles see "Specification of materials and methods to be used - OW 371" <u>GLAZING TO STEEL WITH PUTTY</u> <u>6.38mm Obscure safety glass</u>			
1	Panes not exceeding 0,1 m2 For preambles see "Specifications of materials and methods to be used - PW 371"	m2	6	
	Carried Forward to Summary of Section No. 2 Section No. 2 RENOVATIONS Bill No. 10		R	

Item No		Quantity	Rate	Amount
	<u>BILL NO 13</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - OW 371"			
	<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>			
	<u>ON METAL</u>			
	<u>Spot priming defects in pre-primed surfaces with zinc chromate primer and applying one undercoat and two alkyd enamel paint on steel</u>			
1	On windows with burglar bars	m2	60	
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>One coat universal undercoat and three coats super acrylic PVA paint</u>			
2	On internal walls	m2	50	
	<u>ON FIBRE-CEMENT</u>			
	<u>One acrylic filler coat and two coats polyacrylic emulsion paint</u>			
3	On ceilings	m2	89	
4	On fascias and barge boards	m2	30	
	<u>ON METAL</u>			
	<u>Spot priming defects in pre-primed surfaces with zinc chromate primer and applying one undercoat and two alkyd enamel paint on steel</u>			
5	On door frames	m2	15	
6	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	18	
	Carried Forward		R	
	Section No. 2 RENOVATIONS Bill No. 11			

Brought Forward				R	
<u>ON WOOD</u>					
<u>Three coats matt varnish</u>					
7	On doors	m2	30		
Carried Forward to Summary of Section No. 2				R	
Section No. 2					
RENOVATIONS					
Bill No. 11					

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	99	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	101	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	11	
4	Pit	m3	25	
5	For aprons thickening	m3	3	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	2	
7	Hard rock	m3	2	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	21	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	52	
	Carried Forward		R	
	Section No. 3 FEMALE EDUCATORS Bill No. 1			

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	10
12	Backfilling to trenches, holes, etc.	m3	20
	<u>Approved G5 filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
13	In backfilling to trenches, etc.	m3	38
14	Under floors, steps, pavings, etc.	m3	11
	<u>Compaction of surfaces</u>		
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	36
16	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	11
17	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	34
	<u>Prescribed density tests on filling</u>		
18	Modified AASHTO Density tests	No	14
	<u>SOIL POISONING</u>		
Carried Forward			R
Section No. 3 FEMALE EDUCATORS Bill No. 1			

Brought Forward		R
<u>Soil insecticide</u>		
Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	31
To bottom of concrete aprons	m2	10
To bottoms and sides of trenches, etc.	m2	19
Carried Forward to Summary of Section No. 3		R
Section No. 3		
FEMALE EDUCATORS		
Bill No. 1		

Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	4	
2	Ditto, but surface bed in pit	m3	2	
3	Aprons cast in panels	m3	3	
4	Ramp	m3	11	
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	18	
6	Thickening down apron on edge 110mm deep x 200mm wide	m	15	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
7	Slabs	m3	3	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls	m2	31	
	Carried Forward			
	Section No. 3 FEMALE EDUCATORS Bill No. 2		R	

Brought Forward			R
<u>TEST CUBES</u>			
9	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
10	Surface beds, slabs, etc.	m2	34
<u>FORMWORK</u>			
<u>Rough formwork to sides:</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28
<u>Permanent formwork to soffits:</u>			
12	Slabs propped up not exceeding 1.5m high	m2	7
13	Leave or form 500mm diameter opening in top of floor slab	No	3
<u>REINFORCEMENT</u>			
<u>Mesh Reinforcement (measure nett)</u>			
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	34
15	Type 395 fabric reinforcement laid in pit slabs, etc	m2	30
<u>High tensile steel reinforcement to structural concrete work:</u>			
16	All Diameter bars	t	3,00
Carried Forward to Summary of Section No. 3			R
Section No. 3			
FEMALE EDUCATORS			
Bill No. 2			

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u> <u>BRICKWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>BRICKWORK</u> Sizes in descriptions Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick Hollow walls etc 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 "Brixal" bitumen emulsion waterproofing coating. User note: The above preamble generally applies for works in hot and humid coastal areas Face bricks Bricks shall be ordered timeously to obtain uniformity in size and colour <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			
	Carried Forward Section No. 3 FEMALE EDUCATORS Bill No. 3		R	

Brought Forward			R
<u>SAMPLES</u>			
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	12
2	One brick walls in pit	m2	16
3	Half brick corbelling in pit	m	13
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	4
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
5	Half brick walls in beamfilling	m2	5
6	One brick walls	m2	82
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
7	Half brickwork for face brick walls pointed both sides	m2	15
8	One brickwork for face brick walls pointed both sides	m2	40
9	Extra over brickwork for face brickwork in beamfilling	m2	5
10	Fair raking and cutting	m	15
Carried Forward			R
Section No. 3 FEMALE EDUCATORS Bill No. 3			

Brought Forward			R
<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 4 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>			
11	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	8
12	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	8
13	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	5
<u>BRICKWORK SUNDRIES</u>			
<u>Brick reinforcement</u>			
14	75mm Wide reinforcement built in horizontally	m	91
15	150mm Wide reinforcement built in horizontally	m	362
<u>Turning pieces</u>			
16	220mm Wide turning piece to lintel etc	m	4
<u>Galvanised wire ties etc</u>			
17	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	21
<u>Prestressed fabricated lintels</u>			
18	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	12
<u>Ventillation bricks</u>			
19	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	7
Carried Forward to Summary of Section No. 3			R
Section No. 3			
FEMALE EDUCATORS			
Bill No. 3			

Item No	Quantity	Rate	Amount
<u>BILL NO.4</u>			
<u>WATERPROOFING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls m2	6	
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds m2	41	
<u>FLOOR AND WALLS SEALERS</u>			
<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames. m	15	
Carried Forward to Summary of Section No. 3			R
Section No. 3 FEMALE EDUCATORS Bill No. 4			

Item No		Quantity	Rate	Amount
	<u>BILL NO.7</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>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	34	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	44	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	10	
4	Extra over for closed ends	No	3	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	4	
6	Extra over rainwater pipe for eaves offset	No	3	
7	Ditto ,for shoe	No	4	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	FEMALE EDUCATORS			
	Bill No. 5			
			R	

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	41	
2	76 x 38mm Wall plates	m	19	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	44	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	33	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	16	
6	Hurricane clips	No	26	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	26	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	2	
	Carried Forward		R	
	Section No. 3 FEMALE EDUCATORS Bill No. 6			

	Brought Forward			R	
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	3		
Carried Forward to Summary of Section No. 3					
Section No. 3					
FEMALE EDUCATORS					
Bill No. 6					

Item No	Quantity	Rate	Amount
<u>BILL NO.7</u>			
<u>IRONMONGERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>CATCHES, CABIN, HOOKS, ETC</u>			
<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No 2	
<u>LOCKS</u>			
<u>Approved</u>			
2	Three lever mortice lockset	No 2	
3	Indicator lockset	No 3	
<u>HANDLES</u>			
<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No 3	
<u>DOORSTOPS</u>			
<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No 3	
<u>DOOR CLOSERS</u>			
<u>"Dorma"</u>			
6	TS90/EN3 S "Impulse" slide channel door closer and non-hold open action	No 1	
<u>PUSH PLATES AND KICKING PLATES</u>			
Carried Forward			R
Section No. 3 FEMALE EDUCATORS Bill No. 7			

Brought Forward				R
	<u>1.2mm Thick satin finished "Union" stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>			
7	200 x 800mm Type "SS5089-200W" kicking plate	No	5	
8	200 x 800mm Type ""SS5089-200W" push plate	No	5	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
9	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2	
10	SS5066E-06SSE14 stainless steel pictogram engraved with a disabled sign	No	1	
	<u>"Vaal Paragon" or similar approved</u>			
11	32mm Type 9 back grab rail 800mm long plugged	No	1	
12	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Simlilar</u>			
13	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	3	
Carried Forward to Summary of Section No. 3				R
Section No. 3				
FEMALE EDUCATORS				
Bill No. 7				

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 3		
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 2		
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No 6		
4	Window type NE 7,1022 x 654mm high including burglar bars	No 3		
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 2		
Carried Forward to Summary of Section No. 3				R
Section No. 3				
FEMALE EDUCATORS				
Bill No. 8				

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	"Enviro Loo System FG-1040 STDCA/A Standard" installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvered inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), toilet pan, seat and lid (PL.4), 3500mm long outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary interconnector piping between multiple tanks, emergency outlet piping, etc	No	3	
2	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
	<u>BUDGETARY ALLOWANCE</u>			
	<u>SUPERVISION OF INSTALLATION OF "ENVIRO LOO"</u>			
3	Two site visits to be made by the "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between Mvula Trust and Enviro Loo Options Limpopo.	Item		8 000,00
4	Profit and attendance for the above	Item		800,00
	<u>"Vaal"</u>			
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
5	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	1	
	Carried Forward		R	
	Section No. 3 FEMALE EDUCATORS Bill No. 10			

	Brought Forward			R	
6	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 774000) and matching 9 litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat	No	2		
7	Vaal vitreous china "Protea paraplegic 90 degree" outlet pan (code 7502) and matching 9 litre cistern (code 710536) complete with lid, fitments and purpose made C.P side flush lever mounted on wall adjacent to cistern.(Grab rails to be supplied by CHAIRMAN INDUSTRIES).	No	1		
8	Flat back urinal overall size 295 x 315 x 415mm high with 40mm chromium plated domical grating (Code 878720) and top inlet spreader (Code 8543) with two hanger brackets with flushmaster junior (Code 812720) hung to wall	No	2		
	<u>FITTINGS</u>				
9	19mm chrome plated push button taps to wash troughs	No	2		
10	Elbow taps	No	1		
11	40 x 50mm No 365/50 Chromium-plated bottle trap	No	4		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
12	50mm Pipes	m	2		
13	50mm Pipes laid in and including trenches n.e 1m deep	m	2		
14	110mm Pipes	m	120		
15	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	60		
	<u>Extra over uPVC pipes for fittings</u>				
16	50mm Bend	No	13		
17	50mm Junction	No	12		
18	50mm Access junction	No	11		
19	110mm Pan connector	No	4		
	Carried Forward			R	
	Section No. 3 FEMALE EDUCATORS Bill No. 10				

		Brought Forward		R	
20	100mm Bend	No	6		
21	110mm Junction	No	6		
22	110mm Reducing junction	No	6		
23	110mm Access bend	No	12		
24	110mm Double junction	No	5		
25	110mm "GI Two-way" vent valve	No	4		
	<u>Sundries</u>				
26	Testing waste pipe system		Item		
	<u>WATER SUPPLIES</u>				
	<u>Class 16 uPVC pressure pipes with solvent welded joints</u>				
27	32mm Pipes laid in and including trenches not exceeding 1m deep	m	200		
28	50mm Pipes laid in and including trenches not exceeding 1m deep	m	220		
	<u>Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints</u>				
29	32mm Bend	No	40		
30	32mm Reducer	No	30		
31	32mm Tee	No	40		
32	50mm Bend	No	40		
33	50mm Tee	No	40		
	<u>Class 0 copper pipes</u>				
34	15mm Pipes	m	2		
35	22mm Pipes	m	15		
	Carried Forward			R	
	Section No. 3 FEMALE EDUCATORS Bill No. 10				

Brought Forward				R	
<u>Extra over class 0 copper pipes for capillary fittings</u>					
36	15mm Fittings	No	8		
37	22mm Fittings	No	18		
<u>TESTING</u>					
38	Allow for testing the whole internal plumbing and drainage installation		Item		
Carried Forward to Summary of Section No. 3				R	
Section No. 3					
FEMALE EDUCATORS					
Bill No. 10					

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	6	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	14	
3	On doors (External)	m2	9	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	6	
5	On gates (Measured over the full flat area of both sides)	m2	8	
6	On gutters and down pipes	m	14	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	5	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	FEMALE EDUCATORS			
	Bill No. 12			
			R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	66	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	68	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	7	
4	Pit	m3	18	
5	For aprons thickening	m3	2	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	2	
7	Hard rock	m3	2	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	12	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	34	
	Carried Forward			
	Section No. 4 BOYS TOILETS Bill No. 1		R	

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	6
12	Backfilling to trenches, holes, etc.	m3	17
	<u>Approved G5 filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
13	In backfilling to trenches, etc.	m3	26
14	Under floors, steps, pavings, etc.	m3	9
	<u>Compaction of surfaces</u>		
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	24
16	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	9
17	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	23
	<u>Prescribed density tests on filling</u>		
18	Modified AASHTO Density tests	No	12
	<u>SOIL POISONING</u>		
Carried Forward			R
Section No. 4 BOYS TOILETS Bill No. 1			

Brought Forward			R
	<u>Soil insecticide</u>		
19	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	17
20	To bottom of concrete aprons	m2	10
21	To bottoms and sides of trenches, etc.	m2	9
Carried Forward to Summary of Section No. 4			R
Section No. 4			
BOYS TOILETS			
Bill No. 1			

Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	3	
2	Ditto, but surface bed in pit	m3	2	
3	Aprons cast in panels	m3	2	
4	Ramp	m3	6	
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	15	
6	Thickening down apron on edge 110mm deep x 200mm wide	m	12	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
7	Slabs	m3	2	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls	m2	20	
	Carried Forward			
	Section No. 4			
	BOYS TOILETS			
	Bill No. 2			
			R	

Brought Forward			R
<u>TEST CUBES</u>			
9	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
10	Surface beds, slabs, etc.	m2	23
<u>FORMWORK</u>			
<u>Rough formwork to sides:</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	19
<u>Permanent formwork to soffits:</u>			
12	Slabs propped up not exceeding 1.5m high	m2	4
13	Leave or form 500mm diameter opening in top of floor slab	No	3
<u>REINFORCEMENT</u>			
<u>Mesh Reinforcement (measure nett)</u>			
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	23
15	Type 395 fabric reinforcement laid in pit slabs, etc	m2	19
<u>High tensile steel reinforcement to structural concrete work:</u>			
16	All Diameter bars	t	2,00
Carried Forward to Summary of Section No. 4			R
Section No. 4			
BOYS TOILETS			
Bill No. 2			

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u> <u>BRICKWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>BRICKWORK</u> Sizes in descriptions Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick Hollow walls etc 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 "Brixal" bitumen emulsion waterproofing coating. User note: The above preamble generally applies for works in hot and humid coastal areas Face bricks Bricks shall be ordered timeously to obtain uniformity in size and colour <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			
	Carried Forward Section No. 4 BOYS TOILETS Bill No. 3		R	

Brought Forward			R
<u>SAMPLES</u>			
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	9
2	One brick walls in pit	m2	11
3	Half brick corbelling in pit	m	11
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	4
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
5	Half brick walls in beamfilling	m2	5
6	One brick walls	m2	61
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
7	Half brickwork for face brick walls pointed both sides	m2	12
8	One brickwork for face brick walls pointed both sides	m2	31
9	Extra over brickwork for face brickwork in beamfilling	m2	5
10	Fair raking and cutting	m	10
Carried Forward			R
Section No. 4 BOYS TOILETS Bill No. 3			

Brought Forward				R
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 4 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>			
11	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	6	
12	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	6	
13	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	4	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement</u>			
14	75mm Wide reinforcement built in horizontally	m	58	
15	150mm Wide reinforcement built in horizontally	m	224	
	<u>Turning pieces</u>			
16	220mm Wide turning piece to lintel etc	m	4	
	<u>Galvanised wire ties etc</u>			
17	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	15	
	<u>Prestressed fabricated lintels</u>			
18	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	8	
	<u>Ventillation bricks</u>			
19	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	5	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
BOYS TOILETS				
Bill No. 3				

Item No	Quantity	Rate	Amount
<u>BILL NO.4</u>			
<u>WATERPROOFING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls m2	4	
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds m2	26	
<u>FLOOR AND WALLS SEALERS</u>			
<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames. m	10	
Carried Forward to Summary of Section No. 4			R
Section No. 4 BOYS TOILETS Bill No. 4			

Item No		Quantity	Rate	Amount
	<u>BILL NO.5</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>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	33	
	<u>Sundries</u>			
2	12" Thermal resistance sisalition laid on purlins	m2	33	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	7	
4	Extra over for closed ends	No	3	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	4	
6	Extra over rainwater pipe for eaves offset	No	3	
7	Ditto ,for shoe	No	4	
	Carried Forward to Summary of Section No. 4			
	Section No. 4 BOYS TOILETS Bill No. 5			
			R	

Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	41	
2	76 x 38mm Wall plates	m	19	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	44	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	33	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	16	
6	Hurricane clips	No	26	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	26	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	2	
	Carried Forward		R	
	Section No. 4 BOYS TOILETS Bill No. 6			

	Brought Forward			R	
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	3		
Carried Forward to Summary of Section No. 4					
Section No. 4					
BOYS TOILETS					
Bill No. 6					

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Brought Forward				R
	<u>1.2mm Thick satin finished "Union" stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>			
7	200 x 800mm Type "SS5089-200W" kicking plate	No	4	
8	200 x 800mm Type ""SS5089-200W" push plate	No	4	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
9	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	1	
10	SS5066E-06SSE14 stainless steel pictogram engraved with a disabled sign	No	1	
	<u>"Vaal Paragon" or similar approved</u>			
11	32mm Type 9 back grab rail 800mm long plugged	No	1	
12	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
13	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	2	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
BOYS TOILETS				
Bill No. 7				

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 2		
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 2		
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No 4		
4	Window type NE 7,1022 x 654mm high including burglar bars	No 2		
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 2		
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	BOYS TOILETS			
	Bill No. 8			

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>PLASTERING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>CEMENT SCREEDS TO CONCRETE</u>			
<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	23
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	11
<u>FLOOR AND WALLS SEALERS</u>			
<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	23
4	On internal textured plaster walls and floors in pit	m2	11
<u>EPOXY</u>			
5	Epoxy finish to floors	m2	30
Carried Forward to Summary of Section No. 4			R
Section No. 4 BOYS TOILETS Bill No. 9			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	"Enviro Loo System FG-1040 STDCA/A Standard" installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvered inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), toilet pan, seat and lid (PL.4), 3500mm long outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary interconnector piping between multiple tanks, emergency outlet piping, etc	No	2	
2	"Enviro Loo Urinal Evaporative Tank System code FG-862B " installed strictly in accordance with manufacturers instructions, unit comprising of urinal evaporative tank (PL.1), urinal bowl (PL.5), 3500mm long outlet vent pipe (PL.3), ventilation extraction unit (PL.3) fixed to wall with vent wall bracket (PL.4), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary piping, traps, etc	No	10	
3	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1	
	<u>BUDGETARY ALLOWANCE</u>			
	<u>SUPERVISION OF INSTALLATION OF "ENVIRO LOO"</u>			
4	Two site visits to be made by the "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between Mvula Trust and Enviro Loo Options Limpopo.	Item		8 000,00
	Carried Forward		R	
	Section No. 4 BOYS TOILETS Bill No. 10			

Brought Forward			R	
5	Profit and attendance for the above	Item		800,00
	<u>"Vaal"</u>			
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
6	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No 1		
	<u>FITTINGS</u>			
7	19mm chrome plated push button taps to wash troughs	No 2		
8	Elbow taps	No 1		
	<u>TESTING</u>			
9	Allow for testing the whole internal plumbing and drainage installation	Item		
Carried Forward to Summary of Section No. 4			R	
Section No. 4				
BOYS TOILETS				
Bill No. 10				

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	4	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	9	
3	On doors (External)	m2	7	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	5	
5	On gates (Measured over the full flat area of both sides)	m2	6	
6	On gutters and down pipes	m	10	
	<u>Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	4	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	BOYS TOILETS			
	Bill No. 12			

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Item No		Quantity	Rate	Amount
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	152	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	152	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	16	
4	Pit	m3	36	
5	For aprons thickening	m3	3	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	3	
7	Hard rock	m3	4	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	30	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	106	
	Carried Forward			
	Section No. 5 GIRLS TOILETS Bill No. 1		R	

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	9
12	Backfilling to trenches, holes, etc.	m3	19
	<u>Approved G5 filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
13	In backfilling to trenches, etc.	m3	11
14	Under floors, steps, pavings, etc.	m3	26
	<u>Compaction of surfaces</u>		
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	41
16	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	22
17	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	36
	<u>Prescribed density tests on filling</u>		
18	Modified AASHTO Density tests	No	8
	<u>SOIL POISONING</u>		
Carried Forward			R
Section No. 5 GIRLS TOILETS Bill No. 1			

Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	5	
2	Ditto, but surface bed in pit	m3	3	
3	Aprons cast in panels	m3	3	
4	Ramp	m3	5	
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	23	
6	Thickening down apron on edge 110mm deep x 200mm wide	m	24	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
7	Slabs	m3	5	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls	m2	21	
	Carried Forward		R	
	Section No. 5 GIRLS TOILETS Bill No. 2			

Brought Forward			R
<u>TEST CUBES</u>			
9	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	8
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
10	Surface beds, slabs, etc.	m2	47
<u>FORMWORK</u>			
<u>Rough formwork to sides:</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	27
<u>Permanent formwork to soffits:</u>			
12	Slabs propped up not exceeding 1.5m high	m2	4
13	Leave or form 500mm diameter opening in top of floor slab	No	12
<u>REINFORCEMENT</u>			
<u>Mesh Reinforcement (measure nett)</u>			
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	47
15	Type 395 fabric reinforcement laid in pit slabs, etc	m2	48
<u>High tensile steel reinforcement to structural concrete work:</u>			
16	All Diameter bars	t	2,00
Carried Forward to Summary of Section No. 5			R
Section No. 5			
GIRLS TOILETS			
Bill No. 2			

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u> <u>BRICKWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>BRICKWORK</u> Sizes in descriptions Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick Hollow walls etc 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 "Brixal" bitumen emulsion waterproofing coating. User note: The above preamble generally applies for works in hot and humid coastal areas Face bricks Bricks shall be ordered timeously to obtain uniformity in size and colour <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			
	Carried Forward Section No. 5 GIRLS TOILETS Bill No. 3		R	

Brought Forward			R
<u>SAMPLES</u>			
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	18
2	One brick walls in pit	m2	26
3	Half brick corbelling in pit	m	23
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	7
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
5	Half brick walls in beamfilling	m2	5
6	One brick walls	m2	215
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
7	Half brickwork for face brick walls pointed both sides	m2	36
8	One brickwork for face brick walls pointed both sides	m2	97
9	Extra over brickwork for face brickwork in beamfilling	m2	8
10	Fair raking and cutting	m	10
Carried Forward			R
Section No. 5 GIRLS TOILETS Bill No. 3			

Brought Forward			R
	<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 4 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>		
11	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	13
12	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	14
13	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	11
	<u>BRICKWORK SUNDRIES</u>		
	<u>Brick reinforcement</u>		
14	75mm Wide reinforcement built in horizontally	m	136
15	150mm Wide reinforcement built in horizontally	m	286
	<u>Turning pieces</u>		
16	220mm Wide turning piece to lintel etc	m	10
	<u>Galvanised wire ties etc</u>		
17	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	29
	<u>Prestressed fabricated lintels</u>		
18	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	13
	<u>Ventillation bricks</u>		
19	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	9
	Carried Forward to Summary of Section No. 5		R
	Section No. 5		
	GIRLS TOILETS		
	Bill No. 3		

Item No	Quantity	Rate	Amount
<u>BILL NO.4</u>			
<u>WATERPROOFING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls m2	7	
<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds m2	47	
<u>FLOOR AND WALLS SEALERS</u>			
<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames. m	33	
Carried Forward to Summary of Section No. 5			R
Section No. 5 GIRLS TOILETS Bill No. 4			

Item No		Quantity	Rate	Amount
	<u>BILL NO.5</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>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	53	
	<u>Sundries</u>			
2	12" Thermal resistance sisalation laid on purlins	m2	63	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	12	
4	Extra over for closed ends	No	3	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	11	
6	Extra over rainwater pipe for eaves offset	No	4	
7	Ditto ,for shoe	No	4	
	Carried Forward to Summary of Section No. 5			
	Section No. 5			
	GIRLS TOILETS			
	Bill No. 5			
			R	

Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	60	
2	76 x 38mm Wall plates	m	19	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	54	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	21	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	26	
6	Hurricane clips	No	29	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	31	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	3	
	Carried Forward		R	
	Section No. 5 GIRLS TOILETS Bill No. 6			

	Brought Forward			R	
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	8		
Carried Forward to Summary of Section No. 5				R	
Section No. 5					
GIRLS TOILETS					
Bill No. 6					

Item No		Quantity	Rate	Amount
	BILL NO.7			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CATCHES, CABIN, HOOKS, ETC</u>			
	<u>Approved</u>			
1	150mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	3	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	Three lever mortice lockset	No	3	
3	Indicator lockset	No	8	
	<u>HANDLES</u>			
	<u>Aluminium Pull Handle</u>			
4	Set of two, 300mm pull handles fixed back to back on doors	No	3	
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
5	38mm Diameter rubber door stop plugged	No	4	
	<u>DOOR CLOSERS</u>			
	<u>"Dorma"</u>			
6	TS90/EN3 S "Impulse" slide channel door closer and non-hold open action	No	3	
	<u>PUSH PLATES AND KICKING PLATES</u>			
	Carried Forward		R	
	Section No. 5 GIRLS TOILETS Bill No. 7			

Brought Forward				R
	<u>1.2mm Thick satin finished "Union" stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>			
7	200 x 800mm Type "SS5089-200W" kicking plate	No	12	
8	200 x 800mm Type ""SS5089-200W" push plate	No	12	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
9	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	2	
10	SS5066E-06SSE14 stainless steel pictogram engraved with a disabled sign	No	1	
	<u>"Vaal Paragon" or similar approved</u>			
11	32mm Type 9 back grab rail 800mm long plugged	No	1	
12	32mm Type 8 side grab rail 900mm girth plugged	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
13	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	8	
	<u>Sundries</u>			
14	Female she-bin plugged to walls	No	2	
Carried Forward to Summary of Section No. 5				R
Section No. 5				
GIRLS TOILETS				
Bill No. 7				

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 8		
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 4		
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No 9		
4	Window type NE 7,1022 x 654mm high including burglar bars	No 5		
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 3		
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5			
	GIRLS TOILETS			
	Bill No. 8			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	48	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	43	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	48	
4	On internal textured plaster walls and floors in pit	m2	104	
	<u>EPOXY</u>			
5	Epoxy finish to floors	m2	40	
	Carried Forward to Summary of Section No. 5			
	Section No. 5			
	GIRLS TOILETS			
	Bill No. 9			
			R	

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	"Enviro Loo System FG-1040 STDCA/A Standard" installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvered inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), toilet pan, seat and lid (PL.4), 3500mm long outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary interconnector piping between multiple tanks, emergency outlet piping, etc	No	8	
2	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	3	
	<u>BUDGETARY ALLOWANCE</u>			
	<u>SUPERVISION OF INSTALLATION OF "ENVIRO LOO"</u>			
3	Two site visits to be made by the "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between Mvula Trust and Enviro Loo Options Limpopo.		Item	8 000,00
4	Profit and attendance for the above		Item	800,00
	<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>			
5	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	3	
	Carried Forward		R	
	Section No. 5 GIRLS TOILETS Bill No. 10			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	14	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	7	
3	On doors (External)	m2	26	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	12	
5	On gates (Measured over the full flat area of both sides)	m2	14	
6	On gutters and down pipes	m	25	
	<u>Spot priming defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	13	
	Carried Forward to Summary of Section No. 5			
	Section No. 5			
	GIRLS TOILETS			
	Bill No. 12			
			R	

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Item No		Quantity	Rate	Amount
	<u>BILL NO.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	197	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	201	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Trenches	m3	17	
4	Pit	m3	48	
5	For aprons thickening	m3	4	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
6	Soft rock	m3	4	
7	Hard rock	m3	7	
	<u>Extra over all excavations for carting away:</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	39	
	<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	68	
	Carried Forward		R	
	Section No. 6 GRADE R TOILETS Bill No. 1			

Brought Forward			R
	<u>Keeping excavations free of water.</u>		
10	Keeping excavations free of water other than subterranean water	Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>		
11	Under floors, steps, pavings, etc.	m3	10
12	Backfilling to trenches, holes, etc.	m3	46
	<u>Approved G5 filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>		
13	In backfilling to trenches, etc.	m3	50
14	Under floors, steps, pavings, etc.	m3	35
	<u>Compaction of surfaces</u>		
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	51
16	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	31
17	Compaction of ground surface to aprons etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	42
	<u>Prescribed density tests on filling</u>		
18	Modified AASHTO Density tests	No	7
	<u>SOIL POISONING</u>		
Carried Forward			R
Section No. 6 GRADE R TOILETS Bill No. 1			

	Brought Forward		R
	<u>Soil insecticide</u>		
19	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	47
20	To bottom of concrete aprons	m2	39
21	To bottoms and sides of trenches, etc.	m2	76
Carried Forward to Summary of Section No. 6			R
Section No. 6			
GRADE R TOILETS			
Bill No. 1			

Item No		Quantity	Rate	Amount
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to			
	be used - PW 371"			
	<u>UNREINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
1	Strip footings	m3	8	
2	Ditto, but surface bed in pit	m3	4	
3	Aprons cast in panels	m3	4	
4	Ramp	m3	6	
5	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavation, backfilling etc.	m	25	
6	Thickening down apron on edge 110mm deep x 200mm wide	m	25	
	<u>REINFORCED CONCRETE, ETC</u>			
	<u>25Mpa/19mm Concrete</u>			
7	Slabs	m3	5	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls	m2	44	
	Carried Forward			
	Section No. 6			
	GRADE R TOILETS			
	Bill No. 2			
			R	

	Brought Forward			R
	<u>TEST CUBES</u>			
9	Allow for preparing a set of three test cubes each size 150x150x150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	7	
	<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
10	Surface beds, slabs, etc.	m2	57	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides:</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50	
	<u>Permanent formwork to soffits:</u>			
12	Slabs propped up not exceeding 1.5m high	m2	6	
13	Leave or form 500mm diameter opening in top of floor slab	No	7	
	<u>REINFORCEMENT</u>			
	<u>Mesh Reinforcement (measure nett)</u>			
14	Mesh ref. No. 395 fabric reinforcement fixed horizontal in surface beds	m2	57	
15	Type 395 fabric reinforcement laid in pit slabs, etc	m2	50	
	<u>High tensile steel reinforcement to structural concrete work:</u>			
16	All Diameter bars	t	4,00	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6			
	GRADE R TOILETS			
	Bill No. 2			

Item No		Quantity	Rate	Amount
	<u>BILL NO.3</u> <u>BRICKWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> For preambles see "Specifications of materials and methods to be used - PW 371" <u>BRICKWORK</u> Sizes in descriptions Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick Hollow walls etc 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 "Brixal" bitumen emulsion waterproofing coating. User note: The above preamble generally applies for works in hot and humid coastal areas Face bricks Bricks shall be ordered timeously to obtain uniformity in size and colour <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			
	Carried Forward Section No. 6 GRADE R TOILETS Bill No. 3		R	

Brought Forward			R
<u>SAMPLES</u>			
Samples of all masonry building units, except those for walls units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site described as "load bearing", shall consist of a minimum of 6			
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	20
2	One brick walls in pit	m2	44
3	Half brick corbelling in pit	m	43
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
4	Extra over brickwork for face brickwork in foundation	m2	7
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
5	Half brick walls in beamfilling	m2	27
6	One brick walls	m2	152
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 4000.00/1000 delivered to site excluding VAT) pointed with flush horizontal and vertical joints</u>			
7	Half brickwork for face brick walls pointed both sides	m2	27
8	One brickwork for face brick walls pointed both sides	m2	110
9	Extra over brickwork for face brickwork in beamfilling	m2	8
10	Fair raking and cutting	m	23
Carried Forward			R
Section No. 6 GRADE R TOILETS Bill No. 3			

Brought Forward			R
<u>Brick-on-edge header course coping, sills, etc. of face bricks (purchase price of R 4 000.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces</u>			
11	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 110mm soffit	m	14
12	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	16
13	Fair cutting and fitting around pipe not exceeding 100mm diameter.	No	7
<u>BRICKWORK SUNDRIES</u>			
<u>Brick reinforcement</u>			
14	75mm Wide reinforcement built in horizontally	m	133
15	150mm Wide reinforcement built in horizontally	m	391
<u>Turning pieces</u>			
16	220mm Wide turning piece to lintel etc	m	11
<u>Galvanised wire ties etc</u>			
17	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other built into brickwork	No	41
<u>Prestressed fabricated lintels</u>			
18	Pair of 110 x 75mm Lintels in lengths exceeding 3m and not exceeding 4,5m	m	18
<u>Ventillation bricks</u>			
19	Set of two 22 x 155mm high terra cotta clay vermin proof air bricks including making good reveals and gauze	No	15
Carried Forward to Summary of Section No. 6			R
Section No. 6			
GRADE R TOILETS			
Bill No. 3			

Item No		Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375mm micron embossed damp proof course</u>			
1	In walls	m2	10	
	<u>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape</u>			
2	Under surface beds	m2	43	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>"Secomastic" non setting mastic sealant applied cold with a hand pressure caulking gun and leave perfectly watertight:</u>			
3	Around steel windows and door frames.	m	28	
	Carried Forward to Summary of Section No. 6			
	Section No. 6			
	GRADE R TOILETS			
	Bill No. 4			
			R	

Item No		Quantity	Rate	Amount
	<u>BILL NO.5</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>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Kliplok" roof sheeting in chromadek finish fixed to timber purlins (elsewhere)</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	63	
	<u>Sundries</u>			
2	12" Thermal resistance sisalition laid on purlins	m2	80	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm Standard rainwater gutters fixed with gutters brackets	m	14	
4	Extra over for closed ends	No	5	
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes fixed to wall	m	9	
6	Extra over rainwater pipe for eaves offset	No	6	
7	Ditto ,for shoe	No	8	
	Carried Forward to Summary of Section No. 6			
	Section No. 6 GRADE R TOILETS Bill No. 5			
			R	

Item No		Quantity	Rate	Amount
	<u>BILL NO.6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	79	
2	76 x 38mm Wall plates	m	18	
3	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	83	
	<u>Sundries</u>			
4	Two coats creosote on sawn timbers	m2	50	
5	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	32	
6	Hurricane clips	No	48	
	<u>EAVES, VERGES, ETC.</u>			
	<u>Pressed fibre-cement</u>			
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	45	
	<u>DOORS, ETC.</u>			
	<u>Wrought meranti doors hung to steel frames</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	4	
	Carried Forward		R	
	Section No. 6 GRADE R TOILETS Bill No. 6			

	Brought Forward			R	
9	44mm Purpose made Framed batten door 813 x 1882mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed (door raised by 120mm from bottom) (D2)	No	7		
Carried Forward to Summary of Section No. 6					
Section No. 6					
GRADE R TOILETS					
Bill No. 6					

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Brought Forward				R
	<u>1.2mm Thick satin finished "Union" stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>			
7	200 x 800mm Type "SS5089-200W" kicking plate	No	20	
8	200 x 800mm Type ""SS5089-200W" push plate	No	20	
	<u>LETTERS, NAMEPLATES, ETC.</u>			
	<u>"Union" or similar approved</u>			
9	75 x 150mm Natural anodised aluminium plate with Grade R symbol	No	3	
10	SS5066E-06SSE14 stainless steel pictogram engraved with a disabled sign	No	3	
	<u>"Vaal Paragon" or similar approved</u>			
11	32mm Type 9 back grab rail 800mm long plugged	No	2	
12	32mm Type 8 side grab rail 900mm girth plugged	No	2	
	<u>BATHROOM FITTINGS</u>			
	<u>"Kimberley-Clark" or Similar</u>			
13	"Kimberly Clark" SQ2 code 405607B white lockable toilet roll holder	No	9	
	<u>Sundries</u>			
14	Female she-bin plugged to walls	No	1	
Carried Forward to Summary of Section No. 6				R
Section No. 6				
GRADE R TOILETS				
Bill No. 7				

Item No		Quantity	Rate	Amount
	<u>BILL NO.8</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Single rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2032mm high	No 8		
	<u>1,6mm Double rebated frames suitable for one brickwalls</u>			
2	Frame for door 813 x 2032mm high	No 4		
	<u>STEEL WINDOWS, DOORS, ETC</u>			
3	Window type NE1, 533 x 654mm high including burglar bars	No 10		
4	Window type NE 7,1022 x 654mm high including burglar bars	No 5		
	<u>WELDED SCREENS, GATES, ETC</u>			
	<u>Steel gates and frames</u>			
5	Purpose made square hallow section mild steel security gate, size 813 x 2032mm High	No 4		
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6			
	GRADE R TOILETS			
	Bill No. 8			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>PLASTERING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>Screeds to steel trowelled, on concrete:</u>			
1	30mm thick on floors	m2	47	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork or blockwork</u>			
2	On pits walls	m2	51	
	<u>FLOOR AND WALLS SEALERS</u>			
	<u>Minimum two coats approved epoxy coat:</u>			
3	On screed	m2	47	
4	On internal textured plaster walls and floors in pit	m2	58	
	<u>EPOXY</u>			
5	Epoxy finish to floors	m2	46	
	Carried Forward to Summary of Section No. 6			
	Section No. 6			
	GRADE R TOILETS			
	Bill No. 9			
			R	

Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to be used - PW 371"			
<u>INSTALLATION OF "ENVIRO LOO" AT BASELOANE PRIMARY SCHOOL</u>			
<u>ENVIRO-LOO TOILET SYSTEMS</u>			
1	"Enviro Loo System FG-1040 STDCA/A Standard" installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvered inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), toilet pan, seat and lid (PL.4), 3500mm long outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary interconnector piping between multiple tanks, emergency outlet piping, etc	No	8
2	"Enviro Loo Urinal Evaporative Tank System code FG-862B " installed strictly in accordance with manufacturers instructions, unit comprising of urinal evaporative tank (PL.1), urinal bowl (PL.5), 3500mm long outlet vent pipe (PL.3), ventilation extraction unit (PL.3) fixed to wall with vent wall bracket (PL.4), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary piping, traps, etc	No	3
3	Supply and install pre-cast concrete double wash-trough, complete with all necessary 19mm galvanised pipework including soakaway size 1000 x 1000 x 1000mm covered with "bidim"	No	1
<u>BUDGETARY ALLOWANCE</u>			
Carried Forward			R
Section No. 6 GRADE R TOILETS Bill No. 10			

Brought Forward			R	
<u>SUPERVISION OF INSTALLATION OF "ENVIRO LOO"</u>				
4	Two site visits to be made by the "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between Mvula Trust and Enviro Loo Options Limpopo.		Item	8 000,00
5	Profit and attendance for the above		Item	800,00
<u>"Vaal"</u>				
<u>White glazed fireclay or vitreous china coupling with SABS specification 497 in</u>				
6	"Vaal hibiscus" wash hand basin bolted to wall including all fittings and necessary pipework	No	4	
7	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 774000) and matching 9 litre cistern (code 710034) complete with lid, fitments and flush pipe elbow and conversion bend (code 710044) and "deluxe" toilet seat	No	4	
8	Vaal vitreous china "Protea paraplegic 90 degree" outlet pan (code 7502) and matching 9 litre cistern (code 710536) complete with lid, fitments and purpose made C.P side flush lever mounted on wall adjacent to cistern.(Grab rails to be supplied by CHAIRMAN INDUSTRIES).	No	2	
9	Flat back urinal overall size 295 x 315 x 415mm high with 40mm chromium plated domical grating (Code 878720) and top inlet spreader (Code 8543) with two hanger brackets with flushmaster junior (Code 812720) hung to wall	No	3	
<u>FITTINGS</u>				
10	19mm chrome plated push button taps to wash troughs	No	3	
11	Elbow taps	No	4	
12	40 x 50mm No 365/50 Chromium-plated bottle trap	No	4	
<u>SANITARY PLUMBING</u>				
Carried Forward			R	
Section No. 6 GRADE R TOILETS Bill No. 10				

		Brought Forward			R	
		<u>uPVC pipes</u>				
13	50mm Pipes	m	14			
14	50mm Pipes laid in and including trenches n.e 1m deep	m	18			
15	110mm Pipes	m	120			
16	110mm Pipes laid in and including trenches not exceeding 1m deep under surface beds	m	60			
		<u>Extra over uPVC pipes for fittings</u>				
17	50mm Bend	No	13			
18	50mm Junction	No	12			
19	50mm Access junction	No	11			
20	110mm Pan connector	No	6			
21	100mm Bend	No	6			
22	110mm Junction	No	6			
23	110mm Reducing junction	No	6			
24	110mm Access bend	No	12			
25	110mm Double junction	No	5			
26	110mm "GI Two-way" vent valve	No	4			
		<u>Sundries</u>				
27	Testing waste pipe system		Item			
		<u>WATER SUPPLIES</u>				
		<u>Class 16 uPVC pressure pipes with solvent welded joints</u>				
28	32mm Pipes laid in and including trenches not exceeding 1m deep	m	200			
29	50mm Pipes laid in and including trenches not exceeding 1m deep	m	220			
		Carried Forward			R	
	Section No. 6 GRADE R TOILETS Bill No. 10					

	Brought Forward			R	
	<u>Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints</u>				
30	32mm Bend	No	40		
31	32mm Reducer	No	30		
32	32mm Tee	No	40		
33	50mm Bend	No	40		
34	50mm Tee	No	40		
	<u>Class 0 copper pipes</u>				
35	15mm Pipes	m	2		
36	22mm Pipes	m	15		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
37	15mm Fittings	No	8		
38	22mm Fittings	No	18		
	<u>TESTING</u>				
39	Allow for testing the whole internal plumbing and drainage installation		Item		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6				
	GRADE R TOILETS				
	Bill No. 10				

[illegible]

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations, apply one coat primer and two coats PVA emulsion paint</u>			
1	On fascias and barge boards	m2	16	
	<u>ON WOOD</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
2	On doors (Internal)	m2	16	
3	On doors (External)	m2	14	
	<u>ON METAL</u>			
	<u>Undercoat and minimum 2 coat gloss enamel</u>			
4	On door frames	m2	15	
5	On gates (Measured over the full flat area of both sides)	m2	15	
6	On gutters and down pipes	m	18	
	<u>Spot prining defects in prime surface with zinc chromate primer and apply one universal undercoat and two coats EPWP, golden brown gloss enamel paint on steel</u>			
7	On windows with burglar bars	m2	11	
	Carried Forward to Summary of Section No. 6			
	Section No. 6			
	GRADE R TOILETS			
	Bill No. 12			
			R	

Bill No	Section No. 6 GRADE R TOILETS	Page No	Amount
<u>SECTION SUMMARY - GRADE R TOILETS</u>			
1	EARTHWORKS	146	
2	CONCRETE, FORMWORK AND REINFORCEMENT	148	
3	MASONRY	151	
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10	PLUMBING AND DRAINAGE	163	
11	GLAZING	164	
12	PAINTWORK	165	
Carried to Final Summary			R
Section No. 6 GRADE R TOILETS			

Item No		Quantity	Rate	Amount
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be used - PW 371"			
	<u>PAVED WALKWAYS</u>			
	<u>SITE CLEARANCE</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush and trees not exceeding 200mm girth, etc.	m2	405	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m2	405	
	<u>OPEN FACE EXCAVATIONS IN EARTH OVER SLOPING SITE</u>			
3	Excavation in earth not exceeding 2m deep open face to form platforms under walkways, etc and depositing excavated material over site, including haulage not exceeding 100mm from perimeter of excavations	m3	243	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be allocated by the Contractor	m3	100	
	<u>Approved G5 filling supplied by the Contractor compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick:</u>			
5	Under pavings, etc.	m3	208	
	<u>Compaction of surfaces</u>			
6	Compaction of ground surface under pavings etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	405	
	<u>Prescribed density tests on filling</u>			
7	Modified AASHTO Density tests	No	15	
	Carried Forward		R	
	Section No. 7 EXTERNAL WORKS Bill No. 1			

Brought Forward			R
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
8	Under paving etc.	m2	405
<u>Approved soil sterilant type weedkiller applied strictly according to label specifications</u>			
9	Under paving etc	m2	405
<u>PAVING BLOCKS FOR WALKWAYS</u>			
10	Supply and lay 80mm Interlocking Type S-A Class 25 Paving Blocks in accordance with SABS 1200MJ and to the Architech's specifications. Colour pattern as specified by Landscape Architect.	m2	405
11	Formwork to sides of edges, risers, etc n.e 300mm deep	m	520
12	25Mpa/19mm unreinforced concrete edge beam	m3	39
<u>(End of paving)</u>			
<u>THE FOLLOWING IN RAINWATER CHANNELS:</u>			
<u>Earthworks:</u>			
13	Excavate in earth below natural, reduced or made up groundlevel, not exceeding 2m deep, to reduced levels under aprons,paving, etc	m3	70
14	Extra over all excavations for carting away excessive orunsuitable excavated material to a dumping site to be locatedby the Contractor	m3	20
15	Approved gravel filling supplied and carted on by the Contractor under V-shaped rainwater channels and compacted to 95% Mod. AASHTO density in layers not exceeding 150mm thick	m3	40
16	Re-compaction of disturbed formation levels, including scarifying for a depth of 150mm and compacting to 93% Mod AASHTO density	m2	250
17	Treat soil under concrete rain water channels, etc. with anapproved insecticide solution at the rate of not less than 2 litreper 1m2	m2	250
Carried Forward			R
Section No. 7 EXTERNAL WORKS Bill No. 1			

Brought Forward			R
<u>Reinforced concrete :</u>			
18	25MPa/19mm Mass concrete in open V-shaped (in section) rainwater channel 1000mm wide x 175mm high overall cast to falls in maximum 1,80m long alternative lengths, with top of channel sloped to centre to form 75mm deep extreme open V-shaped trough, the whole finished smooth with a wooden float on all exposed faces and with all exposed angles rounded, with and including 193 mesh reinforcement, laid in panels not exceeding 1.8m long including all necessary forwork, etc	m	270
19	Extra on last to form closed end	No	20
20	Ditto, but to form outlet	No	20
<u>(End of rainwater channels)</u>			
<u>SEWER NETWORK</u>			
<u>Site clearance</u>			
21	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc, 2m wide	m	700
<u>Excavation in earth for trenches exceeding 1m but not exceeding 1,5m deep</u>			
22	Pipe trenches including disposal of surplus/unsuitable material for pipes between 100mm and 250mm nominal diameter	m	650
<u>Extra over trench excavations in earth for excavation in</u>			
23	Soft rock	m3	7
24	Hard rock	m3	4
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site compacted to 90% Mod. AASHTO density</u>			
25	In backfilling to pipe trenches	m3	252
<u>Selected granular material obtained from the excavations and /or prescribed stock piles on site compacted to 90% Mod. AASHTO density</u>			
26	In bedding layer and cradle to pipe trenches	m3	65
Carried Forward			R
Section No. 7 EXTERNAL WORKS Bill No. 1			

Brought Forward			R
	<u>Selected fill material obtained from the excavations and /or prescribed stock piles on site compacted to 90% Mod. AASHTO density</u>		
27	In bedding layer and cradle to pipe trenches	m3	65
	<u>Selected granular material supplied by the contractor compacted to 90% Mod. AASHTO density</u>		
28	In bedding layer and cradle to pipe trenches	m3	65
	<u>Selected fill material supplied by the contractor compacted to 90% Mod. AASHTO density</u>		
29	In bedding layer and cradle to pipe trenches	m3	65
	<u>Supply, lay, bed and disinfect Class 16 uPVC pressure pipes in accordance with SANS 966 including sockets for mechanical jointing</u>		
30	110mm Diameter pipes in trenches	m	300
31	110mm Inspection pipe	No	20
	<u>Extra over uPVC piping for uPVC fittings</u>		
32	110mm Bend	No	40
33	110mm Junction	No	20
	<u>Sundries</u>		
34	110mm PVC cleaning eye fixed to 110mm PVC drain pipe, including 350 x 350 x 75mm thick in-situ 15 MPa/19mm mass concrete surround, the whole finished smooth on all exposed faces with exposed angles rounded, including all necessary excavations, formwork, backfilling, etc.	No	10
35	110mm Dished gulley not exceeding 1m deep with 150mm cast iron grating and standard concrete gulley surround	No	10
36	Testing drainage pipe system		Item
	<u>SEPTIC TANK</u>		
	<u>SITE CLEARANCE, ETC.</u>		
	Carried Forward		R
	Section No. 7 EXTERNAL WORKS Bill No. 1		

Brought Forward			R
	<u>Site clearance</u>		
37	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	50
	<u>EXCAVATION, FILLING, ETC</u>		
	<u>Excavation in earth not exceeding 4m deep</u>		
38	Pit	m3	140
	<u>Extra over trench and hole excavations in earth for excavation in</u>		
39	Soft rock	m3	14
40	Hard rock	m3	7
	<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>		
41	In backfilling to foundations around foundation walls	m3	15
	<u>Extra over all excavations for carting away</u>		
42	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	125
	<u>Risk of collapse of excavations</u>		
43	Sides of trench and hole excavation not exceeding 3m deep.	m2	80
	<u>Compaction of surfaces</u>		
44	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	50
	<u>Keeping excavations free of water.</u>		
45	Keeping excavations free of water.	Item	
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	Carried Forward		R
	Section No. 7 EXTERNAL WORKS Bill No. 1		

Brought Forward				R
	<u>15MPa/19mm Concrete, in:</u>			
46	Surface blinding	m3	15	
	<u>REINFORCED CONCRETE</u>			
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days:</u>			
	<u>25mpa/19mm Concrete</u>			
47	Mass concrete to bottoms	m3	20	
48	Slabs.	m3	15	
	<u>TEST BLOCKS</u>			
49	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4	
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u>			
	<u>Smooth formwork to sides</u>			
50	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25	
51	0,6mm Thick galvanised corrugated sheet covering laid over boulder filling	m2	40	
	<u>REINFORCEMENT</u>			
52	One layer of 375 micron USB green medium density waterproof sheeting on corrugated sheet iron covering under earth filling	m2	40	
	<u>High tensile steel reinforcement to structural concrete work:</u>			
53	110mm Diameter drain pipes, fixed raking or vertically in ramps to cleaning eyes, etc (no excavations)	m	20	
54	All Diameter bars	t	3,00	
55	110mm Pipes laid in and including trenches not exceeding 1m deep	m	20	
	Carried Forward			R
	Section No. 7 EXTERNAL WORKS Bill No. 1			

Brought Forward				R
56	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	10	
57	Extra over uPVC piping for 110mm bend	No	20	
<u>BRICKWORK</u>				
<u>Brickwork of NFP bricks in class II mortar</u>				
58	Half brick walls	m2	17	
59	Extra over uPVC piping for 110mm junction	No	4	
60	One brick walls	m2	70	
61	110mm Perforated PVC pipes laid in graded boulder filling	m	40	
62	Extra over uPVC piping for 110mm stop end	No	4	
63	110mm uPVC cleaning eye fixed to 110mm uPVC drain pipe, including 350 x 350 x 75mm thick in-situ 15 MPa/19mm mass concrete surround, the whole finished smooth on all exposed faces with exposed angles rounded, including all necessary excavations, formwork, backfilling, etc.	No	4	
<u>BRICKWORK SUNDRIES</u>				
<u>Bagging of 1:3 cement and sand mixture</u>				
64	Outer face of external brick wall	m2	88	
<u>Brick reinforcement</u>				
65	75mm Wide reinforcement built in horizontally	m	48	
66	150mm Wide reinforcement built in horizontally	m	150	
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 250 micron green medium density waterproof sheeting sealed at laps with pressure sensitive tape in accordance with the manufacturer's instructions.</u>				
67	Under surface beds	m2	50	
Carried Forward				R
Section No. 7 EXTERNAL WORKS Bill No. 1				

Brought Forward			R
<u>Minimum two coats 'approved black epoxy coat:</u>			
68	On internal textured plaster walls	m2	88
<u>INTERNAL PLASTER</u> Cement plaster on brickwork			
69	On walls in septic tank	m2	88
<u>FRENCH DRAIN</u>			
<u>TEST BLOCKS</u>			
70	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5
<u>The following in one french drain</u>			
<u>CONCRETE SUNDRIES</u>			
71	Excavate in earth not exceeding 2m deep below natural ground level, including trimming sides, levelling and compacting bottoms and disposal of excavated material	m3	80
<u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u>			
72	Allow for the risk of collapse of sides of excavations exceeding 1,5m deep	m2	40
73	Surface beds, slabs, etc	m2	40
74	Filling obtained from the excavations compacted to 90% Mod AASHTO density in layers not exceeding 150mm thick in backfilling to top of french drain	m3	12
75	"Bidum U14" or other approved geofabric lining around stone filling with 150mm and 300mm side and end laps respectively	m2	40
76	Approved graded boulder and stone filling with boulders approximately 300mm diameter at bottom to stone approximately 50mm diameter at top	m3	40
<u>MONEY PROVISIONS</u>			
Carried Forward			R
Section No. 7 EXTERNAL WORKS Bill No. 1			

Brought Forward			R	
<u>The following monetary provisions are to be omitted from the contract sum and used as directed below:</u>				
77	Allow the amount of R200 000.00 (Two Hundred Thousand Rand) for Refurbishment of Septic not clearly defined, to be used as directed by the principal agent and deducted in whole or in part if not required	Item		200 000,00
<u>(End of sewer network)</u>				
<u>WATER SUPPLY</u>				
<u>Site clearance</u>				
78	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc, 2m wide	m	255	
<u>Excavation in earth for trenches not exceeding 1,5m deep</u>				
79	Pipe trenches including disposal of surplus/unsuitable material for pipes up to 125mm nominal diameter	m	255	
<u>Extra over trench excavations in earth for excavation in</u>				
80	Soft rock	m3	30	
81	Hard rock	m3	10	
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site compacted to 90% Mod. AASHTO density</u>				
82	In backfilling to pipe trenches	m3	60	
<u>Selected granular material obtained from the excavations and /or prescribed stock piles on site compacted to 90% Mod. AASHTO density</u>				
83	In bedding layer and cradle to pipe trenches	m3	20	
<u>Selected fill material obtained from the excavations and /or prescribed stock piles on site compacted to 90% Mod. AASHTO density</u>				
84	In bedding layer and cradle to pipe trenches	m3	20	
Carried Forward			R	
Section No. 7 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
	<u>Selected granular material supplied by the contractor compacted to 90% Mod. AASHTO density</u>			
85	In bedding layer and cradle to pipe trenches	m3	20	
	<u>Selected fill material supplied by the contractor compacted to 90% Mod. AASHTO density</u>			
86	In bedding layer and cradle to pipe trenches	m3	20	
	<u>Supply, lay, bed and disinfect Class 9 uPVC pressure pipes in accordance with SANS 966 including sockets for mechanical jointing</u>			
87	50mm Diameter pipes in trenches	m	255	
	<u>Extra over Class 9 uPVC piping for Class 16 uPVC fittings</u>			
88	50mm Bend (11.25 degree angle)	No	15	
89	50mm Bend (22.5 degree angle)	No	8	
90	50mm Bend (45 degree angle)	No	12	
91	50mm Bend (90 degree angle)	No	18	
	<u>RAINWATER STORAGE TANKS</u>			
	<u>The following in rainwater tanks and platforms:</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
92	Trenches for tank platforms	m3	10	
	<u>Risk of collapse of excavations</u>			
93	Sides of trench and hole excavation exceeding 1,5m deep	m2	32	
	<u>Keeping excavations free of water</u>			
94	Keeping excavations free of water		Item	
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
95	Under floors, steps, paving, etc	m3	2	
	Carried Forward			R
	Section No. 7 EXTERNAL WORKS Bill No. 1			

	Brought Forward			R	
96	Backfilling to trenches, holes, etc	m3	8		
	<u>Soil poisoning and insecticide</u>				
97	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	11		
98	To bottoms and sides of trenches etc	m2	224		
	<u>15Mpa / 19mm Concrete</u>				
99	Strip footings	m3	4		
100	Platform surface beds cast in panels	m3	2		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
101	Platform surface beds	m2	8		
	<u>Brickwork of NFP bricks in class II mortar</u>				
102	One brick walls	m2	30		
	<u>Brickwork reinforcement</u>				
103	150mm Wide reinforcement built horizontally	m	85		
	<u>Face bricks (Corobrick Middelwit Fynbos Geel) pointed with recessed horizontal and vertical joints</u>				
104	Extra over brickwork for face brickwork	m2	20		
	<u>Brick-on-edge header course copings, sills, etc of (Corobrick Middelwit Fynbos Geel) face bricks pointed with recessed joints on all exposed faces</u>				
105	Coping on top of one brick wall	m	16		
	<u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u>				
106	In walls	m2	8		
	<u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
107	Under surface beds	m2	8		
	Carried Forward			R	
	Section No. 7 EXTERNAL WORKS Bill No. 1				

Brought Forward				R
	<u>Galvanised medium normalized mild steel piping</u>			
108	25mm Pipes	m	120	
109	50mm Pipes	m	90	
	<u>Extra over galvanised piping for galvanised mild steel fittings</u>			
110	25mm Fittings	No	30	
111	50mm Elbows	No	20	
112	50mm Union	No	20	
113	50mm Reducing bush	No	20	
114	25mm Fullway gate valve.	No	2	
115	15mm "Cobra Ref. 108LK" brass hose bibtap	No	4	
	<u>"JoJo" approved SANS PVC water tanks</u>			
116	5 000 Litre watertank fitted onto and secured to tank platforms	No	4	
	<u>WATER STORAGE TANKS</u>			
	<u>The following in One (1 No) Tank Stands each size 1500 x 1500 x 4000 mm high overall formed of hot dip galvanised angle section legs, base plates, braces etc., including all welding, holes, bolts, nuts, washers, rivets, bolting, riveting, grinding smooth and fixing in position:</u>			
117	600 x 600 x 650mm High 25MPa/19mm stone concrete base including all necessary excavations, formwork, backfilling, etc.	No	4	
118	16mm Diameter mild steel L-shaped holding down bolt 500mm girth with one end threaded and the other end cas into top of concrete base (elsewhere measured).	No	32	
	Carried Forward			R
	Section No. 7 EXTERNAL WORKS Bill No. 1			

Brought Forward			R	
119	Angle section legs, rails, braces, etc.	t	2,00	
120	20mm Diameter round bar rungs 360mm long.	No	12	
121	Bolts, nuts, washers, etc.	No	32	
<u>Creosote treated sawn softwood.</u>				
122	25 x 100mm Edge strip 1 700mm long.	No	4	
123	76 x 114mm Bearers 1700mm long.	No	12	
<u>WATER STORAGE TANKS</u>				
124	10000 Litre Elavated polyethylene water storage tank	No	7	
<u>TESTING</u>				
125	Allow for testing all drains, and water supplies to the satisfaction of the Representative. All defective work is to be taken out and replaced at the Contractor's expense.	Item		
<u>BOREHOLE DEVELOPMENT</u>				
<u>MONEY PROVISIONS</u>				
<u>The following monetary provisions are to be omitted from the contract sum and used as directed below:</u>				
<u>UPGRADING OF EXISTING BOREHOLE</u>				
126	Allow the Provisional Amount of R250 000.00 (TWO HUNDRED AND FIFTY THOUSAND RAND) for borehole equipping complete, including testing, reticulation upgrade.	Item		250 000,00
<u>NEW FENCING</u>				
Carried Forward			R	
Section No. 7 EXTERNAL WORKS Bill No. 1				

Brought Forward			R
<u>WELDED MESH FENCE AROUND WATER TANKS</u>			
127	1800mm high welded mesh fencing formed of 2.5 x 50mm galvanized welded mesh in long lengths, with three strands of 1.6mm galvanized steel wire at 150mm centres to and including four strings of 2.5mm galvanized steel binding wire striddeg through holes (measured elsewhere) and secured to straining bolts or posts (elsewhere)	m	247
128	10mm Diameter galvanized straining eye bolt 300mm long with nut and washer sawn off and bent after straining	No	32
129	10mm Diameter barrel bolts 300mm long cast in concrete bases.	No	324
130	3150mm high,50mm diameter x 2.8mm round mild steel steel intermediates posts with a mushroom shaped cover cap.	No	81
131	Corner Post formed of 100mm diameter x 3mm thick x 3150mm overall length steel pipe including a mushroom shape cover cap welded to 300 x 300 x6mm thick base plate	No	4
132	Stays shall be manufactured from 50mm diameter x 2.6mm steel pipe with top end flatted and holed for a 10mm stay bolt and with base plate 200 x 200 x 6mm thick, stays shall b embedded in concrete.	No	8
133	Double security gate size 3000 x 1800mm high comprising 2No leaves size 1500 x 1800mm high, the outer gate frame shall be of 42mm diameter x 2kg/m mild steel pipe frame, mitred and welded at corners, with 21mm diameter mild steel pipe braces diagonal. Gates shall be covered with 64 x 2.5mm galvanised diamond mesh fixed to braces with a security overhang with of 3 strands barbed wire and flat rap razor wire 150mm high fixed to fence with 1.6mm binding wire. The gate shall be complete with hinges, locking devices, drop bolts etc, shall be welded to the gate frame.	No	1
<u>STEEL PALISADE FENCE AROUND GRADE R</u>			
Carried Forward			R
Section No. 7 EXTERNAL WORKS Bill No. 1			

Brought Forward				R
	<u>Steel palisade fencing, gates, etc including one priming</u> <u>coat and two coats high gloss enamel paint on metal</u> <u>stays, framing, etc</u>			
134	1800mm High palisade fencing comprising 40 x 40 x 2mm x 1750mm angle pales bolted at 175mm centres using M8 anti vanda nuts and round headed bolts onto 50 x 50 x 3mm angle iron crossbars bolted onto 76 x 76 x 1.6mm square tube posts 2400mm long by means of 40 x 5.00mm flatbar fishplate and M12 antivandal nuts and bolts and posts set and cast into and including 300 x 300 x 600mm deep concrete bases at 3000mm centres	m	660	
135	900 x 1 800mm High pedestrian gate comprising 76 x 76 x 1.6mm tubular framing all round infilled with and including 40 x 40 x 2mm angle iron pales welded on at 165mm centres and including heavy duty hasp and staple, 63mm Union padlock and two 10mm diameter 150mm long barrel bolts with 50mm long keeps in and including 100 x 100 x 100mm concrete anchor blocks.	No	1	
Carried to Final Summary				R
Section No. 7 EXTERNAL WORKS Bill No. 1				

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	PRELIMINARIES	58		
2	RENOVATIONS	78		
3	FEMALE EDUCATORS	101		
4	BOYS TOILETS	122		
5	GIRLS TOILETS	143		
6	GRADE R TOILETS	166		
7	EXTERNAL WORKS	181		
	SUB TOTAL (A)		R	
	<u>CONTINGENCIES</u>			
	Allow the amount of 10% (Ten percent) for Contingencies for to be be used as directed by the Principal Agent and deducted in whole or in part if not required		R	
	SUB TOTAL (B)		R	
	Add Value Added Tax @ 15%		R	
	Carried to Form of Tender		R	