

Item No		Quantity	Rate	Amount
	<p><u>SECTION 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The agreement shall be the Principal Building Agreement prepared and published by the Joint Building Contracts Committee: Edition 4.1 Code 2101, March 2005. (The JBCC Series 2000 Principal Building Agreement).</p> <p><u>PRELIMINARIES</u></p> <p>The preliminaries shall be the Preliminaries prepared and published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement: Code 2103, May 2005. (The JBCC Series 2000 Preliminaries).</p> <p><u>FULL INTENT AND MEANING OF CLAUSES</u></p> <p>Tenderers shall be deemed to have referred to the afore-mentioned documents for the full intent and meaning of each clause. These clauses are hereinafter referred to by the heading and clause number only.</p> <p>Where standard clauses or alternatives are not applicable to this contract, such modifications, corrections or supplements as are necessary are given under each relevant clause heading or within the relevant schedule.</p> <p>Where an item is not relevant to this specific contract, such item is marked "N/A" signifying "Not applicable".</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			<p style="text-align: right;">R</p>

1/1/1	<p style="text-align: center;">Brought Forward</p> <p><u>PRICING OF CLAUSES</u></p> <p>Tenderers shall allow opposite each clause for any cost involved with complying with such clause. Any clauses left unpriced shall be deemed to be covered by rates and prices elsewhere incorporated throughout these bills of quantities.</p> <p><u>PAYMENT CATEGORIES</u></p> <p>Should 'Alternative A', as set out within Clause 10.3 of the JBCC 2000 Preliminaries, be used for the adjustment of preliminaries, then each item priced is to be allocated to one or more categories by the insertion of the letter "F", "V" or "T", as the case may be, against the price in the rate column. These letters shall indicate the relevant categories as follows:</p> <p>"F" - A fixed amount. "V" - A value-related amount. "T" - A time-related amount.</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p> <p>A1 DEFINITIONS AND INTERPRETATION</p> <p>Clause 1.0</p> <p>Clause 1.1 Definition of "Commencement Date" is added:</p> <p>DEFINITIONS</p> <p>"COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:</p> <p>"CONSTRUCTION GUARANTEE" means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	
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<p style="text-align: center;">Brought Forward</p> <p>Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:</p> <p>"CONSTRUCTION PERIOD" means the period commencing on the commencement date and ending on the date of practical completion</p> <p>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</p> <p>Clause 1.1 Definition of "Fraudulent Practise" is added:</p> <p>"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.</p> <p>Clause 1.1 Definition of "Interest" is amended by replacing it with the following:</p> <p>"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).</p> <p>Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following:</p> <p>"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 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</p> <p>Clause 1.1 Definition of "Security" is amended by replacing it with the following:</p> <p>"SECURITY" means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

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	<p>may recover expense or loss</p> <p>Clause 1.6 is amended by replacing the works "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"</p> <p>Clause 1.6.4 is amended by replacing it with the following:</p> <p>No clause</p> <p>F:..... V:..... T:.....</p> <p><u>OBJECTIVE AND PREPARATION</u></p>	Item		
1/1/2	<p>Offer, acceptance and performance</p> <p style="text-align: right;">Clause 2.0</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/3	<p>Documents</p> <p style="text-align: right;">Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>The contractor shall supply and keep a copy of the JBCC Series 200 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access to at all times.</p> <p>Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"</p> <p>F:..... V:..... T:.....</p>	Item		
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1/1/4	<p>Design responsibility</p> <p style="text-align: right;">Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following</p> <p>No clause</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/5	<p>Employer's agents</p> <p style="text-align: right;">Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3; 34.3 and 34.4</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/6	<p>Site representative</p> <p>Clause 6.0</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/7	<p>Compliance with regulations.</p> <p>The following new subclause is hereby added to this clause:</p> <p>7.3 Note: The provisions herein include inter alia, compliance 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), and in particular with Regulation 5(1) requiring the compilation of a health and safety plan, as well as Regulation 6(1) requiring the appointment of a construction supervisor</p> <p>Clause 7.0</p> <p>F:..... V:..... T:.....</p>	Item	
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1/1/8	<p>Works risk</p> <p style="text-align: right;">Clause 8.0</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/9	<p>Indemnities</p> <p style="text-align: right;">Clause 9.0</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/10	<p>Works insurances</p> <p style="text-align: right;">Clause 10.0</p> <p>Clause 10 is amended by the addition of the following clauses:</p> <p>Damage to the works</p> <p>a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>b) The contractor shall at all times proceed immediately to remove or dispose of any</p> <p>c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the</p>			
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<p style="text-align: center;">Brought Forward</p> <p>costs of such reinstatement shall be measured and valued in terms of 32.0</p> <p>10.7 Injury to Persons or loss of or damage to Properties</p> <p>a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable</p> <p>b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable</p> <p>c) The contractor shall upon receiving a contract instruction from the principal agent cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor.</p> <p>d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion.</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor, shall and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed</p> <p>f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works</p> <p>HIGH RISK INSURANCE</p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions</p> <p>10.7.1 Damage to the works</p> <p>The contractor shall, from the commencement date of the works until the date of the certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs</p> <p>10.7.2 Injury to persons or loss of or damage to property</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing</p> <p>F:..... V:..... T:.....</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>	Item	R	

		Brought Forward		R
1/1/11	Liability insurances Clause 11.0 F:..... V:..... T:.....		Item	
1/1/12	Effecting insurances Clause 12.0 F:..... V:..... T:.....		Item	
1/1/13	Security Clause 14.0 Clauses 14.1 - 14.8 are amended by replacing them with the following 14.1 In respect of contracts with a contract sum up to R1 million, the security to be submitted by the contractor to the employer will be as a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer 14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum			
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<p style="text-align: center;">Brought Forward</p> <p>14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor</p> <p>14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor</p> <p>14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor</p> <p>14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor</p> <p>14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.4.2 The variable construction guarantee shall</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>reduce and expire in terms of the Variable Construction guarantee form included in the invitation to tender</p> <p>14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee</p> <p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the</p> <p>14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion</p> <p>14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.5.4 The payment reduction of the value certified in a payment certificate shall be in</p> <p>14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both</p> <p>14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>(5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor</p> <p>14.6.3 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)</p> <p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(B)</p> <p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2 the employer, in his sole discretion, and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT),</p>		R	
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	<p>whereafter 14.7 shall be applicable</p> <p>F:..... V:..... T:.....</p> <p>EXECUTION</p>	Item	
1/1/14	<p>Preparation for and execution of the Works</p> <p>Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty one (21) calender days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the contractor possession of site within ten (10) working days of the contractor complying with the terms of 15.1.4</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/15	<p>Access to the Works</p> <p style="text-align: right;">Clause 16.0</p> <p>F:..... V:..... T:.....</p>	Item	
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Brought Forward			R
1/1/16	Contract instructions <p style="text-align: right;">Clause 17.0</p> Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors " F:..... V:..... T:.....	Item	
1/1/17	Setting out of the works. <p style="text-align: right;">Clause 18.0</p> F:..... V:..... T:.....	Item	
1/1/18	Assignment <p style="text-align: right;">Clause 19.0</p> F:..... V:..... T:.....	Item	
1/1/19	Nominated Subcontractors <p style="text-align: right;">Clause 20.0</p> Clause 20.1.3 is amended by replacing it with: No Clause F:..... V:..... T:.....	Item	
1/1/20	Selected Subcontractors <p style="text-align: right;">Clause 21.0</p> Clause 21 is amended by replacing it with: No Clause F:..... V:..... T:.....	Item	
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1/1/21	Employer's Direct Contractors	Clause 22.0		
	F:..... V:..... T:.....		Item	
1/1/22	Contractor's Domestic Subcontractors	Clause 23.0		
	F:..... V:..... T:.....		Item	
		<u>COMPLETION</u>		
1/1/23	Practical completion	Clause 24.0		
	F:..... V:..... T:.....		Item	
1/1/24	Works completion	Clause 25.0		
	F:..... V:..... T:.....		Item	
1/1/25	Final completion			
	Clause 26.0			
	Clause 26.1.2 s amended by inserting "#" next 26.1.2			
	F:..... V:..... T:.....		Item	
1/1/26	Latent defects liability period	Clause 27.0		
	F:..... V:..... T:.....		Item	
1/1/27	Sectional completion	Clause 28.0		
	F:..... V:..... T:.....		Item	
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1/1/28	<p>Revision of date for practical completion</p> <p style="text-align: right;">Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No Clause</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/29	<p>Penalty for non-completion</p> <p style="text-align: right;">Clause 30.0</p> <p>F:..... V:..... T:.....</p>	Item	
<u>PAYMENT</u>			
1/1/30	<p>Interim payment to the contractor</p> <p style="text-align: right;">Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses;</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and of the materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8.(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine per cent (99%) of such</p>		
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<p style="text-align: center;">Brought Forward</p> <p>value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in</p> <p>Alternative B</p> <p>31.8(B) Where security is a payment reduction in term of 14.7 has been selected the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except were the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Clause 31.12 is amended by deleting the following:</p> <p>“Payment shall be subject to the employer giving the contractor a tax invoice for the amount due.”</p> <p>F:..... V:..... T:.....</p>	Item	R	
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1/1/31	<p style="text-align: center;">Brought Forward</p> <p>Adjustment to the contract value</p> <p style="text-align: right;">Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"...due to no fault of the contractor"</p> <p>F:..... V:..... T:.....</p>	Item	R	
1/1/32	<p style="text-align: right;">Clause 33.0</p> <p>Recovery of expense and loss</p> <p>Clause 33 is amended by the addition of the following clauses 33.2.9 to 33.2.13:</p> <p>33.2.9 the contractor's failure or neglect to commence with the works on the dates prescribed in the contract</p> <p>33.2.10 the contractor's failure or neglect to proceed with the works in terms of the contract</p> <p>33.2.11 the contractor's failure or neglect for any reason to complete the works in accordance with the contract</p> <p>33.2.12 the contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract</p> <p>33.2.13 the contractor's estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>F:..... V:..... T:.....</p>	Item	R	
	<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

Brought Forward			R
1/1/33	Final account and final payment Clause 34.0 Clause 34.1 is amended by removing "#" next to 34.1 Clause 34.2 is amended by inserting "#" next to 34.2 Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7 1" Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty one (21) calendar days" and delete the words: "subject to the employer giving the contractor a tax invoice for the amount due" F:..... V:..... T:.....	Item	
1/1/34	Payment to other parties Clause 35.0 F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Preliminaries Bill No. 1 Preliminaries			

1/1/35	<p>Brought Forward</p> <p><u>CANCELLATION</u></p> <p>Cancellation by Employer - Contractor's default Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with or any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the and contractor; or for any reason and whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever"</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>	<p>R</p>	
	<p>Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		<p>R</p>	

1/1/36	<p>Brought Forward</p> <p>Cancellation by Employer - loss and damage Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason and whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever"</p> <p>F:..... V:..... T:.....</p>	<p>Item</p>	<p>R</p>	
	<p>Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

Brought Forward			R
1/1/37	<p>Cancellation by Contractor - Employer's default Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "“ ninety (90)“ with "one hundred and twenty (120)“</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the and contractor; or for any reason and whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever"</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/38	<p>Cancellation - cessation of the Works Clause 39.0</p> <p>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"</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

		Brought Forward		R
1/1/39	<p><u>DISPUTE</u></p> <p>Dispute settlement</p> <p style="text-align: right;">Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to :</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "" (10)" to "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs.</p> <p>F:..... V:..... T:.....</p>		Item	
1/1/40	<p><u>SUBSTITUTE PROVISIONS</u></p> <p>State clauses</p> <p style="text-align: right;">Clause 41.0</p>		Item	
1/1/41	<p><u>CONTRACT VARIABLES</u></p> <p><u>THE SCHEDULE (C1.2 CONTRACT DATA)</u></p> <p>42.0 Pre-tender information</p> <p>Tenderers are referred to the document C1.2 Contract Data DPW04(EC) for variables pertaining to this contract</p> <p>F:..... V:..... T:.....</p>		Item	
		Carried Forward		R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>				

<p style="text-align: center;">Brought Forward</p> <p>42.1 CONTRACTING AND OTHER PARTIES</p> <p>42.1.1 Client: Eastern Cape Department of Transport</p> <p>Address: 31 Cowan Close Stellenbosch Park Schornville King Williams Town 5601</p> <p>42.1.2 Principal Agent : Department of Public Works & Infrastructure</p> <p>(5.1) Physical address: Qhasana Building, Independence Avenue, Bisho 4700</p> <p>Tel (040) 602 4538 Cell (071) 671 5716 Email Akhulule.Ndonyana@ecdpw.gov.za</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>42.1.3 Agents service:Architect</p> <p>Agent (1)</p> <p>MDA Architects</p> <p>Physical address:</p> <p>11 Park Road Central Mthatha</p> <p>Code 5099</p> <p>Tel (047) 532 5141</p> <p>Fax (047) 532 5131</p> <p>E-mail buntu@mdaarchitects.co.za</p> <p>42.1.4 Agents service: Quantity Surveyor</p> <p>Agent (2)</p> <p>Lenhle Quantity Surveyors</p> <p>Postal address:</p> <p>PO Box 4308 King Williams Town</p> <p>Code 2008</p> <p>Fax (086) 570 3144</p> <p>E-mail viwe@lenhleqs.co.za</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>41.1.5 Agents service:Structural Engineer</p> <p>Agent (3)</p> <p>Element Consulting Engineers</p> <p>Postal address: 52 Stewart Drive Baysville East London</p> <p>Code 5241</p> <p>Tel (011) 656 3938</p> <p>E-mail isaunders@eceng.co.za</p> <p>41.1.6 Agents service:Civil Engineer</p> <p>Agent (4)</p> <p>Element Consulting Engineers</p> <p>Postal address: PostNet Suite 39 Private Bag x32 Highveld Park</p> <p>Code 0169</p> <p>Tel (011) 656 3938</p> <p>E-mail isaunders@eceng.co.za</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>41.1.7 Agents service: Electrical Engineer</p> <p>Agent (5)</p> <p>MBSA Consulting</p> <p>Physical address:</p> <p>MBSA House 8 Pine Park Vincent East London</p> <p>Code 5217</p> <p>Tel (043) 726 6513</p> <p>E-mail ntumeko@mbsaconsultants.com</p> <p>41.1.8 Agents service: Mechanical Engineer</p> <p>Agent (6)</p> <p>MBSA Consulting</p> <p>Physical address:</p> <p>MBSA House 8 Pine Park Street Vincent East London</p> <p>Code 5217</p> <p>Tel (043) 726 6513</p> <p>E-mail ncedo@mbsaconsultants.com</p> <p><u>SECTION B: PRELIMINARIES</u></p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

Brought Forward			R
	<p><u>1.0 DEFINITIONS AND INTERPRETATION</u></p>		
1/1/42	<p>Definitions and interpretation</p> <p>Clause 1.0</p> <p>See also A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section</p> <p>F:..... V:..... T:.....</p>	Item	
	<p><u>2.0 DOCUMENTS</u></p>		
1/1/43	<p>Checking of documents.</p> <p>The 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 as recommended and published by the Association of South African Quantity Surveyors, 1999 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained.</p> <p style="text-align: right;">Clause 2.1</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/44	<p>Provisional bills of quantities.</p> <p>These bills of quantities shall <u>not</u> be used for ordering purposes.</p> <p style="text-align: right;">Clause 2.2</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/45	<p>Availability of construction documentation.</p> <p style="text-align: right;">Clause 2.3</p> <p>F:..... V:..... T:.....</p>	Item	
	<p>Carried Forward</p>		R
	<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		

Brought Forward			R
1/1/46	Interests of agents. Clause 2.4 F:..... V:..... T:.....	Item	
1/1/47	Priced documents. Clause 2.5 F:..... V:..... T:.....	Item	
1/1/48	Tender submission Clause 2.6 Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)" F:..... V:..... T:.....	Item	
<u>3.0 THE SITE</u>			
1/1/49	Defined works area 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 the site. Clause 3.1 F:..... V:..... T:.....	Item	
1/1/50	Geotechnical investigation Clause 3.2 F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Preliminaries Bill No. 1 Preliminaries			

Brought Forward			R
1/1/51	Inspection of the site Clause 3.3 Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission F:..... V:..... T:.....	Item	
1/1/52	Existing premises occupied Clause 3.4 F:..... V:..... T:.....	Item	
1/1/53	Previous work - dimensional accuracy Clause 3.5 F:..... V:..... T:.....	Item	
1/1/54	Previous work - defects Clause 3.6 F:..... V:..... T:.....	Item	
1/1/55	Services - known Clause 3.7 F:..... V:..... T:.....	Item	
1/1/56	Services - unknown Clause 3.8 F:..... V:..... T:.....	Item	
1/1/57	Protection of trees Clause 3.9 F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Preliminaries Bill No. 1 Preliminaries			

	Brought Forward		R	
1/1/58	Articles of value Clause 3.10 F:..... V:..... T:.....	Item		
1/1/59	Inspection of adjoining properties Clause 3.11 F:..... V:..... T:.....	Item		
	<u>4.0 MANAGEMENT OF CONTRACT</u>			
1/1/60	Management of the Works Clause 4.1 is hereby amended by the addition of the following: The Contractor shall, to the satisfaction of the Principal Agent, provide the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall, inter-alia be responsible for all activities of the Contractor and all Subcontractors and in particular: a) Programming b) Scheduling c) Reporting d) Expediting and co-ordinating e) Procurement f) Liaison and co-ordinating of construction g) Commissioning, instruction, handover and follow-up h) Monitoring and reporting on building activities taking place on site i) Quality Control procedures	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries			

Brought Forward			R
	<p>The names and CV's of the Contractor's site management team shall be submitted to the Principal Agent at time of tender. No changes shall be made nor shall any member of the said team be removed from the site while remaining in the employ of the Contractor without the Principal Agent's express written approval.</p> <p style="text-align: right;">Clause 4.1</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/61	<p>Programming for the Works</p> <p style="text-align: right;">Clause 4.2</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/62	<p>Progress meetings</p> <p style="text-align: right;">Clause 4.3</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/63	<p>Technical meetings</p> <p style="text-align: right;">Clause 4.4</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/64	<p>Labour and plant records</p> <p style="text-align: right;">Clause 4.5</p> <p>F:..... V:..... T:.....</p>	Item	
<u>5.0 SAMPLES AND SHOP DRAWINGS</u>			
1/1/65	<p>Samples of materials</p> <p style="text-align: right;">Clause 5.1</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/66	<p>Workmanship samples</p> <p style="text-align: right;">Clause 5.2</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

		Brought Forward		R
1/1/67	Shop drawings F:..... V:..... T:.....	Clause 5.3	Item	
1/1/68	Compliance with manufacturers' instructions F:..... V:..... T:.....	Clause 5.4	Item	
<u>6.0 TEMPORARY WORKS AND PLANT</u>				
1/1/69	Deposits and fees F:..... V:..... T:.....	Clause 6.1	Item	
1/1/70	Enclosure of the works F:..... V:..... T:.....	Clause 6.2	Item	
1/1/71	Advertising F:..... V:..... T:.....	Clause 6.3	Item	
1/1/72	Plant, equipment, sheds and offices F:..... V:..... T:.....	Clause 6.4	Item	
1/1/73	Main noticeboard F:..... V:..... T:.....	Clause 6.5	Item	
		Carried Forward		R
Section No. 1 Preliminaries Bill No. 1 Preliminaries				

		Brought Forward		R
1/1/74	Subcontractors notice board F:..... V:..... T:.....	Clause 6.6	Item	
<u>7.0 TEMPORARY SERVICES</u>				
1/1/75	Location F:..... V:..... T:.....	Clause 7.1	Item	
1/1/76	Water F:..... V:..... T:.....	Clause 7.2	Item	
1/1/77	Electricity F:..... V:..... T:.....	Clause 7.3	Item	
1/1/78	Telecommunication equipment F:..... V:..... T:.....	Clause 7.4	Item	
1/1/79	Ablution facilities F:..... V:..... T:.....	Clause 7.5	Item	
		Carried Forward		R
Section No. 1 Preliminaries Bill No. 1 Preliminaries				

Brought Forward			R
<u>8.0 PRIME COST AMOUNTS</u>			
1/1/80	Responsibility for prime cost amounts Clause 8.1 F:..... V:..... T:.....	Item	
<u>9.0 ATTENDANCE ON NOMINATED/SELECTED SUBCONTRACTORS</u>			
1/1/81	General attendance Clause 9.1 F:..... V:..... T:.....	Item	
1/1/82	Special attendance The last three words contained within Clause 9.2, <i>ie.</i> "..... in the schedule", shall be deleted and replaced by "..... within the relevant item incorporated in these bills of quantities". Clause 9.2 F:..... V:..... T:.....	Item	
1/1/83	Commissioning - Fuel, water and power Clause 9.3 F:..... V:..... T:.....	Item	
<u>10.0 FINANCIAL ASPECTS</u>			
1/1/84	Statutory taxes, duties and levies Clause 10.1 F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Preliminaries Bill No. 1 Preliminaries			

		Brought Forward		R
1/1/85	Payment of preliminaries	Clause 10.2		
	F:..... V:..... T:.....		Item	
1/1/86	Adjustment of preliminaries	Clause 10.3		
	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 bill of quantities/lump sum document "			
	F:..... V:..... T:.....		Item	
1/1/87	Payment certificate cash flow	Clause 10.4		
	F:..... V:..... T:.....		Item	
	<u>11.0 GENERAL</u>			
1/1/88	Protection of the Works	Clause 11.1		
	F:..... V:..... T:.....		Item	
1/1/89	Protection/isolation of existing/sectionally occupied Works	Clause 11.2		
	F:..... V:..... T:.....		Item	
1/1/90	Site security	Clause 11.3		
	F:..... V:..... T:.....		Item	
		Carried Forward		R
	Section No. 1 Preliminaries Bill No. 1 Preliminaries			

Brought Forward			R
1/1/91	Notice before covering work F:..... V:..... T:.....	Clause 11.4	Item
1/1/92	Disturbance F:..... V:..... T:.....	Clause 11.5	Item
1/1/93	Environmental disturbance F:..... V:..... T:.....	Clause 11.6	Item
1/1/94	Works cleaning and clearing F:..... V:..... T:.....	Clause 11.7	Item
1/1/95	Vermin F:..... V:..... T:.....	Clause 11.8	Item
1/1/96	Overhand work F:..... V:..... T:.....	Clause 11.9	Item
1/1/97	Instruction manuals and guarantees F:..... V:..... T:.....	Clause 11.10	Item
Carried Forward			R
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	Brought Forward		R
1/1/98	As built information Clause 11.11 F:..... V:..... T:.....	Item	
1/1/99	Tenant installations Clause 11.12 F:..... V:..... T:.....	Item	
	<u>12.0 SCHEDULE OF VARIABLES</u>		
	12.1 PRE-TENDER INFORMATION		
1/1/100	Pre-tender information is given hereunder: Clause (and reference)	Item	
	12.1.1 Provisional bills of quantities (2.2) The quantities are provisional. <p style="text-align: right;">Yes</p>		
	12.1.2 Availability of construction documentation. (2.3) <p style="text-align: right;">Yes</p>		
	12.1.3 Interests of agents (2.4) <p style="text-align: right;">N/A</p>		
	12.1.4 Defined Works area (3.1) his the The contractor will not be allowed to extend operations beyond the area indicated on drawings or defined by the Principal Agent		
	Carried Forward		R
	Section No. 1 Preliminaries Bill No. 1 Preliminaries		

<p style="text-align: center;">Brought Forward</p> <p>12.1.5 Geotechnical investigation (3.2)</p> <p style="text-align: center;">N/A</p> <p>12.1.6 Existing premises occupied (3.4) Yes. The adjacent premises will be in use and occupied during the course of this contract. The contractor shall execute the works in such a manner as will least interfere with the general routine of the occupants of the premises and shall minimise any nuisance from dust, noise or other causes.</p> <p>12.1.7 Previous work - dimensional accuracy</p> <p style="text-align: center;">N/A</p> <p>12.1.8 Previous work - defects. (3.6)</p> <p style="text-align: center;">N/A</p> <p>12.1.9 Services - known. (3.7) Should the contractor encounter any existing services such as underground cables, pipes or sewer during the execution of the works he shall notify the principal agent immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the principal agent.</p> <p>12.1.10 Protection of trees. (3.9) All the trees on the site outside of the position of the proposed structure must be protected</p> <p>12.1.11 Inspection of adjoining properties (3.11) Specific requirements: The contractor must inspect adjoining properties and immediately bring to the notice of the Principal Agent of any consequences that may arise from the building works.</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>12.1.12 Enclosure of the Works. (6.2) The contractor shall erect, maintain and remove at completion, hoarding as necessary for the enclosure of the works, all as per Architect's specific requirement, and in line with the Occupational Health and Safety Act.</p> <p>12.1.13 Offices (6.4.3) The contractor shall provide, maintain and remove on completion a suitable meeting room on site at least 6 x 12 x 3m high. The meeting room shall be suitably insulated and ventilated, provided with electric lighting and fitted with a boarded floor, table, chairs, drawing stool, drawing board and lock-up drawers for drawings.</p> <p>The accommodation shall be serviced by the contractor and kept clean and fit for use at all times.</p> <p>12.1.14 Main notice board. (6.5) Specific requirements</p> <p>The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3000 x 3420mmm constructed of suitable boarding with flat smooth surface and with edging bead 40mm thick all round.</p> <p>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 EPWP "orange" with 40mm wide white dividing lines. All wording shall be inscribed in black painted sans serif lettering.</p> <p>Sub-contractor's individual boards will be allowed on the site subject to the written approval of the Representative/Agent.</p> <p>12.1.15 Subcontractors notice board. (6.6)</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		R	

No

Brought Forward		R
12.1.16 Water (7.2) Option A (by contractor)	Yes	
12.1.17 Electricity Option A (by contractor)	Yes	
12.1.18 Telecommunications		
Telephone	Yes	
Facsimile	No	
E-mail	Yes	
12.1.19 Ablution facilities Option A (by contractor)	Yes	
12.1.20 Protection of existing/sectionally occupied works. (11.2)	Yes	
12.1.21 Special attendance (9.2) Details of special attendances required shall be as detailed within the items relevant to each particular sub-contract as incorporated hereinafter in these bills of quantities.		
12.1.22 Protection of the Works (11.1) The contractor to keep unauthorised persons off the site at all times.		
Carried Forward		R
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1/1/101	<p style="text-align: center;">Brought Forward</p> <p>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</p> <p>12.1.24 Environmental disturbance (11.6)</p> <p style="text-align: center;">N/A</p> <p>12.2 POST-TENDER INFORMATION</p> <p>12.2.1 Payment of preliminaries [10.2] Option A (prorated) (NO) Option B (calculates) (YES)</p> <p>12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) (YES) Option B (detailed breakdown) (YES)</p> <p>12.2.3 Additional agreed preliminaries items Details: EPWP requirements as per form C3.5 of the tender documentation.</p> <p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p>	Item	R	
	<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			R

Brought Forward			R
<u>SUPPLEMENTARY DOCUMENTATION</u>			
1/1/102	<p><u>CONTRACT DRAWINGS</u></p> <p>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</p> <p>Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
1/1/103	<p><u>General Preambles</u></p> <p>The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines") and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of works to be done and materials used.</p>	Item	
1/1/104	<p><u>Site Instructions</u></p> <p>Contract instructions issued on site are to be recorded in triplicate in an instruction book which is to be maintained on site by the contractor.</p>	Item	
Carried Forward			R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

Brought Forward			R
1/1/105	<p><u>Trade Names</u></p> <p>Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders.</p> <p>If prior written approval is not obtained, the product described shall be deemed to have been tendered for.</p>	Item	
1/1/106	<p>Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.</p> <p>Where possible the Contractor is encouraged to make use of local labour throughout the project.</p> <p>The labour rate shall be a minimum of R 180,00 per day.</p>	Item	
1/1/107	<p><u>Plant record</u></p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>	Item	
<u>MATERIALS AND WORKMANSHIP</u>			
<u>Proprietary branded products</u>			
1/1/108	<p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturers authorised representative.</p>	Item	
Carried Forward			R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

Brought Forward			R
1/1/109	<p><u>Imported Materials and Equipment</u></p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment (DPW23EC) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
1/1/110	<p><u>Testing of windows to ensure watertightness</u></p> <p>As the windows are fixed they shall be glazed and prepared so that each window can be tested for watertightness with water sprayed on by means of a 20mm hosepipe using adequate pressure. If the pressure proves to be inadequate, in the opinion of the Principal Agent, then the pressure in the hosepipe shall be boosted by means of compressed air or other approved means. Each window section shall be tested under the supervision of the Principal Agent and approved before final acceptance of the fenestration.</p>	Item	
1/1/111	<p><u>Testing of flat roof waterproofing to ensure watertightness</u></p> <p>As waterproofing is completed, areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the Principal Agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing concerned before any further construction work is carried out above the waterproofing.</p>	Item	
Carried Forward			R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

Brought Forward			R
	<p><u>Guarantees</u></p> <p>The Contractor shall obtain written guarantees where called for, addressed to the Employer, from the firms supplying the materials or doing the work and deliver such guarantees to the Principal Agent.</p>		
	<p><u>TEMPORARY SERVICES</u></p> <p><u>Site parking</u></p>		
1/1/112	<p>Wherever and whenever practicable (10) ten parking bays on site shall be made available and reserved for the sole use of the Employer and the professional consultants.</p>	Item	
	<p><u>FINANCIAL ASPECTS</u></p> <p><u>Overtime</u></p>		
1/1/113	<p>The additional costs of overtime work shall not be for the Employer's account except when prior written agreement thereto is given by the Principal Agent.</p>	Item	
	<p><u>Prices for variations</u></p>		
1/1/114	<p>Where prices or quotations for variations are submitted by the Contractor during the currency of the contract, it shall be clearly understood that these are for the purpose of consideration only and that there is not assumption of acceptance.</p>	Item	
	<p><u>ACCESS TO SITE - SECURITY AREA</u></p> <p><u>VIEWING THE SITE IN SECURITY AREAS</u></p>		
1/1/115	<p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		

Brought Forward			R
1/1/116	<p><u>COMMENCEMENT OF WORKS IN SECURITY AREAS</u></p> <p>As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
1/1/117	<p><u>ENTRANCE PERMITS TO SECURITY AREAS</u></p> <p>As the works falls within a security 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 Defence Force, Police or chief security officer</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
1/1/118	<p><u>SECURITY CHECK OF PERSONNEL</u></p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
Carried Forward			R
Section No. 1 Preliminaries Bill No. 1 Preliminaries			

Brought Forward			R
1/1/119	<p><u>PROHIBITION ON TAKING OF PHOTOGRAPHS</u></p> <p>In terms of article 119 of the defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>HIV / AIDS AWARENESS</u></p>	Item	
1/1/120	<p>It is required of the Contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department, that must be read together with and is deemed to be incorporated under this section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items C6 to C11 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.</p> <p>The Contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event partial or total non-compliance, the Principal Agent, notwithstanding the provisions of clause 31 of "Section A" of Preliminaries, or any other clauses to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p>	Item	
Carried Forward			R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

Brought Forward			R
	<u>AWARENESS CHAMPION</u>		
1/1/121	Selection, appointment, briefing and making available of an Awareness Champion, including provision of all relevant services, all in accordance with the HIV/AIDS Specification.	Item	
	<u>AWARENESS WORKSHOPS</u>		
1/1/122	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 multimedia techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification.	Item	
	<u>POSTERS, BOOKLETS, VIDEOS, ETC.</u>		
1/1/123	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification.	Item	
	<u>ACCESS TO CONDOMS</u>		
1/1/124	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification.	Item	
	<u>MONITORING</u>		
1/1/125	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.	Item	
	Carried Forward		R
	Section No. 1 Preliminaries Bill No. 1 Preliminaries		

Brought Forward			R
1/1/126	<p><u>LABOUR-INTENSIVE WORKS</u></p> <p>Those parts of the contract to be constructed using labour-intensive methods have been marked in the bill of quantities with the letters LI in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour intensive specification in the Scope of Works.</p> <p>Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
	<p><u>GENERAL</u></p> <p><u>Copyright</u></p> <p>The ownership of the copyright in and to: all drawings, specifications, models and documents of any nature delivered to the Contractor or produced by or on behalf of the Contractor in connection with the works; and, the artistic character and/or artistic design of the works, shall remain vested in and/or is hereby assigned to the Employer by the Contractor.</p>	Item	
Carried to Final Summary			R
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO. 1</u>			
	<u>FOUNDATIONS (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<u>EARTHWORKS</u>			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2/1/1	Reduced levels under floors	m3	387	
2/1/2	Trenches and holes	m3	620	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
2/1/3	Soft rock	m3	61	
2/1/4	Hard rock	m3	32	
	<u>Extra over all excavations for carting away</u>			
2/1/5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	814	
	Carried Forward			R
	Section No. 2 Building Works Bill No. 1 Earthworks			

Brought Forward			R
<u>Risk of collapse of excavations</u>			
2/1/6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1,652
<u>Keeping excavations free of water</u>			
2/1/7	Keeping excavations free of all water other than subterranean water		Item
<u>Imported filling (G7 material) in layers of 150mm supplied by the contractor compacted to 93% Mod AASHTO density</u>			
2/1/8	Under floors, steps, pavings, etc	m3	194
<u>G5 filling obtained from excavations compacted to 95% Mod AASHTO density</u>			
2/1/9	Under floors, steps, pavings, etc	m3	195
2/1/10	Backfilling to trenches, holes, etc	m3	351
<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density</u>			
2/1/11	Under floors, steps, pavings, etc	m3	129
<u>Coarse river sand filling supplied by the contractor</u>			
2/1/12	Under floors etc	m3	65
<u>Compaction of surfaces</u>			
2/1/13	Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod. AASHTO density	m2	1,301
<u>Prescribed density tests on filling</u>			
2/1/14	"Modified AASHTO Density" test	No	6
Carried Forward			R
Section No. 2 Building Works Bill No. 1 Earthworks			

Brought Forward				R
<u>SOIL POISONING</u>				
NOTE : A written guarantee for ten years for the effectiveness of the treatment must be submitted and handed over to the Architect				
<u>Soil insecticide</u>				
2/1/15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1,301	
2/1/16	To bottoms and sides of trenches	m2	2,762	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Building Works Bill No. 1 Earthworks				

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 110 for CPAP formula purposes</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Building Works Bill No. 2 Concrete, Formwork and Reinforcement</p>			R

Brought Forward			R
<p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>			
<u>CONCRETE</u>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15MPa/19mm concrete</u>			
2/2/1	Surface blinding under footings and bases	m3	23
<u>REINFORCED CONCRETE</u>			
<u>25MPa/19mm concrete</u>			
2/2/2	Strip footings	m3	64
2/2/3	Bases	m3	67
2/2/4	Surface beds on waterproofing.	m3	118
2/2/5	Foundation beams	m3	16
2/2/6	Stairs including landings, beams and inverted beams	m3	3
2/2/7	Slabs including beams and inverted beams	m3	249
2/2/8	Isolated beams	m3	3
2/2/9	Concrete columns	m3	29
<u>CONCRETE SUNDRIES</u>			
Carried Forward			R
<p>Section No. 2 Building Works Bill No. 2 Concrete, Formwork and Reinforcement</p>			

Brought Forward			R
	<u>Finishing top surfaces of concrete smooth with a power float</u>		
2/2/10	Surface beds, slabs, etc. to falls	m2	498
	<u>Finishing top surface of concrete smooth with a wood float.</u>		
2/2/11	Surface beds, slabs, etc.	m2	504
Carried Forward			R
Section No. 2 Building Works Bill No. 2 Concrete, Formwork and Reinforcement			

Brought Forward			R
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Smooth formwork to soffits</u>			
2/2/12	Slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	451
2/2/13	Slabs propped up exceeding 5m and not exceeding 6.5m high	m2	513
2/2/14	Slabs with sloping soffits propped up exceeding 1.5m high and not exceeding 3.5m high	m2	13
2/2/15	Slabs with sloping soffits propped up exceeding 5m high and not exceeding 6,5m high	m2	6
2/2/16	Slabs with sloping soffits propped up exceeding 8m high and not exceeding 9,5m high	m2	6
<u>Smooth formwork to sides</u>			
2/2/17	Beams	m2	63
2/2/18	Columns	m2	45
2/2/19	Beams	m2	703
2/2/20	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1
<u>Smooth formwork to sides of columns</u>			
2/2/21	Rectangular columns with total height not exceeding 3.5m above bearing level	m2	12
2/2/22	Rectangular columns with total height not exceeding 6.5m above bearing level	m2	371
<u>Smooth formwork to circular columns</u>			
2/2/23	400mm Diameter column not exceeding 6.5m high	No	9
<u>Boxing in smooth formwork to form</u>			
2/2/24	20 x 20mm Vertical chamfers at corners	m	1,228
Carried Forward			R
Section No. 2 Building Works Bill No. 2 Concrete, Formwork and Reinforcement			

Brought Forward			R
2/2/25	20 x 20mm Vertical chamfers at corners	m	168
<u>REINFORCEMENT</u>			
<u>(CPAP FORMULA WORK GROUP NO. 114)</u>			
<u>Mild steel reinforcement to structural concrete work</u>			
2/2/26	10mm Diameter bars	t	4.063
<u>High tensile steel reinforcement to structural concrete work</u>			
2/2/27	12mm Diameter bars.	t	21.647
2/2/28	16mm Diameter bars.	t	5.820
<u>Fabric reinforcement</u>			
2/2/29	Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m2	544
2/2/30	Type 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	746
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with Bitumen impregnated softboard between vertical concrete and brick surfaces</u>			
2/2/31	10mm Joints not exceeding 300mm high	m	441
2/2/32	15mm Joints not exceeding 300mm high	m	925
<u>Saw cut joints</u>			
2/2/33	10 x 10mm Saw cut joints in top of concrete	m	252
<u>TEST BLOCKS</u>			
2/2/34	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	24
Carried Forward to Summary of Section No. 2			R
Section No. 2 Building Works Bill No. 2 Concrete, Formwork and Reinforcement			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	NOTE : Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 120 for CPAP formula purposes			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of Type B 375 micron embossed damp-proof course</u>			
2/4/1	In walls	m2	44	
2/4/2	In walls	m2	81	
	<u>DAMPPROOFING UNDER SURFACE BEDS</u>			
	<u>One layer of 250 micron "Plastall Gunplas USB Green" waterproof sheeting Type C, sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2/4/3	Under surface beds.	m2	1,301	
	<u>DAMPPROOFING TO ROOF</u>			
2/4/4	Prime cleaned concrete surface and apply ABE Index Testudo 20/4 fully bonded by torch-on application	m2	483	
	<u>JOINT SEALANTS</u>			
	<u>Silicone sealant or other equal approved sealant applied with a hand pressure caulking gun and leave perfectly watertight:</u>			
2/4/5	Around windows and door frames.	m	910	
	Carried Forward			R
	Section No. 2 Building Works Bill No. 4 Waterproofing			

Brought Forward				R
	<u>"Abe Durakol 256" polysulphide sealant or other equal approved sealant applied with a hand pressure caulking gun and leave perfectly watertight:</u>			
2/4/6	10 x 10mm Deep in joints on vertical surfaces of brickwork or concrete including raking out expansion joint filler	m	925	
2/4/7	10 x 10mm Deep in joints on vertical surfaces of brickwork or concrete including raking out expansion joint filler	m	441	
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
2/4/8	6 x 10mm In saw cut joints in floors	m	252	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Building Works Bill No. 4 Waterproofing				

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS ETC</u></p> <p><u>NOTE:</u> Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>NOTE:</u> Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders.</p> <p>If prior written approval is not obtained, the product described shall be deemed to have been tendered for.</p> <p><u>PREAMBLES</u></p> <p><u>Supplementary Preambles:</u></p> <p>Notes :</p> <p>The following roof sheeting systems are to be manufactured and/or supplied by Messrs Brownbuilt Metal Sections and installed in strict accordance with the Manufacturer's and/or Supplier's specifications.</p> <p>Fixing of all roof sheeting is to be in accordance with the Manufacturer's approved Instruction Book.</p> <p>The Manufacturer shall comply with ISO9002 Quality Management System.</p> <p>A written and approved five year guarantee of site-workmanship and watertightness shall be issued after final inspection of concealed-fix roofing by the Manufacturer 'Brownbuilt Metal Sections.'</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Building Works Bill No. 5 Roof Covering</p>			<p style="text-align: right;">R</p>

Brought Forward			R
<u>RIBBED METAL SHEETING AND ACCESSORIES</u>			
<u>Safintra (or similar approved) 0.53mm gauge AZ 150 Saflok 700 conceal fix profile system with colour plus thunderstorm galvanized coating, all in accordance with the manufacturer's detail and specifications.</u>			
2/5/1	Roof covering with pitch not exceeding 10 degrees (measured on flat)	m2	626
2/5/2	Roof covering with 12 degrees pitch (measured on flat)	m2	301
2/5/3	Side cladding	m2	342
2/5/4	Bullnose cladding	m	111
2/5/5	Bullnose flashing	m	111
2/5/6	Gable flashing	m	50
2/5/7	Vertical flashing	m	86
2/5/8	0.8mm Zincalume flashing by specialist	m	111
2/5/9	0.53mm roof flashing profile system with colour plus thunderstorm galvanized coating, including rubberized silicone sealant	m	4
2/5/10	Apex flashing	m	25
2/5/11	Gable or barge trim	m	25
2/5/12	Moulded narrow and broad rib polyethelene filler blocks	m	51
<u>0.53mm Thick IBR profile roof sheeting with colour plus thunderstorm galvanized coating; fixed with self-tapping screws , all in accordance with the manufacturer's detail and specifications.</u>			
2/5/13	Roof covering with pitch not exceeding 10 degrees (measured on flat)	m2	8
Carried Forward			R
Section No. 2 Building Works Bill No. 5 Roof Covering			

Brought Forward				R
	<u>0,8mm Polycarbonated opaque translucent sheeting including flashing by specialist</u>			
2/5/14	Side cladding	m2	122	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Insulation</u>			
2/5/15	40mm thick flexible faced polyisocyanurate insulation board, white washable coated fiberglass tissue faced as per specialist installation, laid taut over purlins complying with SANS 428, and fixed concurrently with roof covering; all in accordance to the manufacturer's recommendations.(measured on flat)	m2	301	
2/5/16	80mm Lambdaboard (or similar approved) laminated polyisocyanurate core board insulation to be fixed over the purlins and below roof sheeting in conjunction with roof cover	m2	626	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Building Works Bill No. 5 Roof Covering				

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Particle board</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p>			
	Carried Forward		R	
	<p>Section No. 2 Building Works Bill No. 6 Carpentry and Joinery</p>			

	Brought Forward			R	
	<p><u>Decorative laminate finish</u></p> <p>Decorative laminate finishes shall be glued under pressure</p> <p>All edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>Sealing of all abutments</u></p> <p>All cupboards, counter tops, shelves, etc. abutting walls, tiled surfaces, etc. to be sealed watertight with an approved silicon sealant along all joints</p> <p style="text-align: center;">-----</p> <p><u>ROOFS, ETC</u></p> <p><u>Sawn softwood</u></p>				
2/6/1	114 x 38mm Wall plates	m	65		
	Carried Forward			R	
	<p>Section No. 2 Building Works Bill No. 6 Carpentry and Joinery</p>				

<p style="text-align: center;">Brought Forward</p> <p><u>ROOF CONSTRUCTION</u></p> <p><u>DESIGN SUPPLY AND INSTALLATION OF TIMBER ROOF TRUSSES</u></p> <p>All timber roof trusses must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES. Roof sheeting, bearer plates, roof coverings, battens, fascias, flashings, rainwater goods, etc., are all elsewhere measured. Prices for roof trusses are to include for the design, supply and erection of the trusses complete including bolts, connectors, connections, all permanent, temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners, etc. where required.</p> <p>The truss fabricator or his design engineer will issue a certificate of compliance to the Principal Agent which confirms that:</p> <p>a) The design of trusses and permanent bracing must be carried out under the control of a registered professional Engineer. All calculations and drawings, including a key plan of each building showing the position of each type of bracing must be submitted timeously to the Consulting Structural Engineers for their approval before fabrication is commenced.</p> <p>b) The trusses have been manufactured and erected to specification</p> <p>The dimensions of the trusses given in the following descriptions are nominal and the actual measurements for the design and manufacture of the trusses must be taken from the actual working drawings.</p> <p>The truss spans given are measured horizontally between the outer faces of the wall plates and overhangs are measured from the external wall face.</p> <p><u>PRE-FABRICATED TIMBER ROOF TRUSSES</u></p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Building Works Bill No. 6 Carpentry and Joinery</p>		R	

Brought Forward				R
	<u>Plate nailed timber roof truss construction</u>			
2/6/2	Design, supply and install roof truss systems, as designed, complete in accordance with the Standard Building Regulations, with a pitch of not exceeding 10 degrees, including ring shank nails, temporary and permanent bracing, purlins, etc., to suit building including 900mm overhang on all sides measured on flat. Refer to drawing no. MDA380-108 for details (Garage)	m2	130.50	
2/6/3	Design, supply and install roof truss systems, as designed, complete in accordance with the Standard Building Regulations, with a pitch of not exceeding 10 degrees, including ring shank nails, temporary and permanent bracing, purlins, etc., to suit building measured on flat. Refer to drawing no. MDA380-107 for details (Guard house)	m2	8.75	
	<u>SKIRTINGS:</u>			
	<u>Wrought Meranti:</u>			
2/6/4	19 x 75mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor.	m	272	
	<u>DOORS, ETC</u>			
	<u>"Solid doors"</u>			
2/6/5	40mm Door 835 x 2125mm high solid core interior door, faced with 10mm tempered smooth faced hardboard placed horizontally for painting, with 200mm stainless steel protective push plates on both sides of door fixed with 20mm counter sunk s.s screws at max 200mm; and 300mm stainless steel protective kick plates on both sides of door fixed with 20mm counter sunk s.s screws at max 200mm; 300 x 300mm high powder coated aluminium fixed louvre both sides of door fixed with stainless steel self tapping screws; as per architectural door schedule and specification (D02)	No	1	
	Carried Forward			R
	Section No. 2 Building Works Bill No. 6 Carpentry and Joinery			

Brought Forward				R
2/6/6	40mm Door 900 x 2125mm high solid core interior door, faced with 10mm tempered smooth faced hardboard placed horizontally for painting, with 200mm stainless steel protective push plates on both sides of door fixed with 20mm counter sunk s.s screws at max 200mm; and 300mm stainless steel protective kick plates on both sides of door fixed with 20mm counter sunk s.s screws at max 200mm; 300 x 300mm high powder coated aluminium fixed louvre both sides of door fixed with stainless steel self tapping screws; as per architectural door schedule and specification (D03)	No	6	
2/6/7	40mm Door 900 x 2125mm high solid core interior door, faced with 10mm tempered smooth faced hardboard placed horizontally for painting, with two 500 x 500mm high powder coated aluminium fixed louvre both sides of door fixed with stainless steel self tapping screws; as per architectural door schedule and specification (D10)	No	1	
2/6/8	40mm Door 900 x 2125mm high solid core interior door, faced with 10mm tempered smooth faced hardboard placed horizontally for painting; as per architectural door schedule and specification (D05)	No	8	
2/6/9	44mm Double door 1575 x 2125mm high framed, ledged and braced, to receive painting; as per architectural door schedule and specification (D09)	No	1	
2/6/10	40mm Door 900 x 2125mm high solid core interior door, faced with 10mm tempered smooth faced hardboard placed horizontally for painting; as per architectural door schedule and specification (D08)	No	2	
Carried Forward				R
Section No. 2 Building Works Bill No. 6 Carpentry and Joinery				

Brought Forward				R
2/6/11	40mm Door 1000 x 2125mm high solid core interior door, faced with 10mm tempered smooth faced hardboard placed horizontally for painting, with 200mm stainless steel protective push plates on both sides of door fixed with 20mm counter sunk s.s screws at max 200mm; and 300mm stainless steel protective kick plates on both sides of door fixed with 20mm counter sunk s.s screws at max 200mm; 300 x 300mm high powder coated aluminium fixed louvre both sides of door fixed with stainless steel self tapping screws; as per architectural door schedule and specification (D04)	No	1	
2/6/12	44mm Door 813 x 2032mm high semi-solid door, edged and faced with tempered veneered hardboard; finish suitable to paint. as per architectural door schedule and specification (D06)	No	7	
<u>FRAMED FRAMES ETC</u>				
<u>Wrought meranti</u>				
2/6/13	75 x 100mm Hardwood frame with 16mm hardwood quadrant trim both sides of door frame with galv lugs at every 5th brick course for building into either 220 or 110 plastered and paint brick walls, with 100x10mm diameter mild steel dowels to door frame styles	m	140	
<u>JOINERY - CUPBOARDS, FITTINGS ETC</u>				
Notes :				
Pricing for the following section is deemed to include all the tops, drawers, shelving, brackets, legs, handles, kick plates and all sundry items included in the manufacturing and installation				
2/6/14	Shift controller cupboards 5590mm long x 600mm wide x 2385mm high; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-119.	No	1	
Carried Forward				R
Section No. 2 Building Works Bill No. 6 Carpentry and Joinery				

Brought Forward			R
2/6/15	Uniforms & stationary combination cupboards and shelves 5545mm long x 600mm wide x 2385mm high; 1745mm long x 600mm wide x 1198mm high shelves; 6255mm long x 600mm wide x 2385mm high; 1315mm long x 600mm wide x 2385mm high; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-120.	No	1
2/6/16	Laundry combination of cupboards and shelves 3922mm long x 600mm wide x 2385mm high cupboard; 1248mm long x 600mm wide x 1198mm high countertop; 3116mm long x 600mm wide x 1198mm high countertop; 5170mm long x 600mm wide x 2385mm high cupboard; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-119.	No	1
2/6/17	Shift Controller countertop 4150mm long x 600mm wide x 750mm high fixed to wall, all as plans, elevations and cross sections on drawing MDA380-117.	No	1
2/6/18	Kitchen L-shaped joinery unit consisting of sink countertop 1940mm long x 600mm wide x 902mm high; bottom cupboards 4086mm long x 600mm wide x 902mm high; top cupboards 4086mm long x 600mm wide x 885mm high fixed to wall, all as plans, elevations and cross sections on drawing MDA380-118	No	1
2/6/19	U-shaped work station including two 2000mm long x 600mm wide sides and 3097mm long x 600mm wide, 750mm high unit, joined at corners, fixed to the wall, all as plans, elevations and cross sections on drawing MDA380-117 (Watch room).	No	1
2/6/20	U-shaped work station including two 2000mm long x 600mm wide sides and 3097mm long x 600mm wide, 750mm high unit, joined at corners, fixed to the wall, all as plans, elevations and cross sections on drawing MDA380-117 (Fire Chief room).	No	1
2/6/21	Bathroom vanity 1728mm long x 490mm wide x 222mm high including holes for wash hand basin plumbing; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-115	No	2
Carried Forward			R
Section No. 2 Building Works Bill No. 6 Carpentry and Joinery			

Brought Forward				R
2/6/22	Bathroom vanity 1112mm long x 490mm wide x 222mm high including holes for wash hand basin plumbing; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-116	No	2	
2/6/23	Bathroom vanity 560mm long x 490mm wide x 222mm high including holes for wash hand basin plumbing; fixed to wall	No	2	
2/6/24	Lockable key cabinet for 50 key capacity size x 250mm long x 50mm wide x 540mm high complete with key holders, key tags and index, screwed and plugged to wall	No	1	
<u>Shelves</u>				
2/6/25	DCP Store/Chemical store room shelves 5160m long x 500mm wide x 2030mm high; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-113.	No	1	
2/6/26	DCP Store/Chemical store room shelves 1930m long x 500mm wide x 2030mm high; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-113.	No	1	
2/6/27	DCP Store/Chemical store room shelves 2631m long x 500mm wide x 2030mm high; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-113.	No	1	
2/6/28	DCP Store/Chemical store room shelves 1200m long x 500mm wide x 2030mm high; fixed to wall, all as plans, elevations and cross sections on drawing MDA380-113.	No	1	
2/6/29	DCP Store/Chemical store room shelves 2320m long x 500mm wide x 2030mm high; fixed to floor and ceiling, all as plans, elevations and cross sections on drawing MDA380-113.	No	2	
2/6/30	Foam room shelves 5540mm long x 500mm wide x 2030mm high fixed to wall, all as plans, elevations and cross sections on drawing MDA380-113.	No	1	
Carried Forward				R
Section No. 2 Building Works Bill No. 6 Carpentry and Joinery				

Brought Forward			R
2/6/31	Foam room shelves 3460mm long x 500mm wide x 2030mm high; fixed to floor and ceiling; all as plans, elevations and cross sections on drawing MDA380-113.	No	1
2/6/32	Foam room shelves 4600mm long x 500mm wide x 2030mm high fixed to wall; all as plans, elevations and cross sections on drawing MDA380-113.	No	1
2/6/33	BA room shelves 6765mm long x 500mm wide x 2040mm high fixed to wall, including the 37x22x3mm galvanised mild steel gallows bracket bolted to steel column ; and black powder coated 6mmØ steel round rod as BA shelving; all as plans, elevations and cross sections on drawing MDA380-112.	No	1
2/6/34	BA room shelves 2320mm long x 500mm wide x 2040mm high fixed to wall, including the 37x22x3mm galvanised mild steel gallows bracket bolted to steel column ; and black powder coated 6mmØ steel round rod as BA shelving; all as plans, elevations and cross sections on drawing MDA380-112.	No	4
2/6/35	Hose room shelves 23200mm long x 500mm wide x 2030mm high fixed to wall, including 37x22x3mm galvanised mild steel gallows bracket bolted to steel column; and 1mm thick stainless steel sheet, with 5mm thick steel wire as side panels. mild steel fire hose frame to be powder coated, colour: black; all as plans, elevations and cross sections on drawing MDA380-114.	No	4
2/6/36	Hose room shelves 5540mm long x 500mm wide x 2030mm high fixed to wall, including 37x22x3mm galvanised mild steel gallows bracket bolted to steel column; and 1mm thick stainless steel sheet, with 5mm thick steel wire as side panels. mild steel fire hose frame to be powder coated, colour: black; all as plans, elevations and cross sections on drawing MDA380-114.	No	1
Carried Forward			R
Section No. 2 Building Works Bill No. 6 Carpentry and Joinery			

Brought Forward			R
2/6/37	Hose room shelves 3420mm long x 500mm wide x 2030mm high fixed to wall, including 37x22x3mm galvanised mild steel gallows bracket bolted to steel column; and 1mm thick stainless steel sheet, with 5mm thick steel wire as side panels. mild steel fire hose frame to be powder coated, colour: black; all as plans, elevations and cross sections on drawing MDA380-114.	No	1
2/6/38	Pigeon shelves 2692mm long x 600mm wide x 1832mm high on one end and 865mm high on the other end fixed to wall; all as plans, elevations and cross sections on drawing MDA380-113 (foyer).	No	1
<u>Benches, Coat Hooks etc</u>			
2/6/39	Fireman changing storage bench 4150mm long x 350mm wide x 300mm high consisting of 50x19mm saligna hardwood slats across the length of the bench, plugged and screwed to 37x22x3mm galvanised mild steel gallows bracket, with 3 coats Woodoc 20 polyurethane clear gloss varnish, all bolted to steel column using 8mm heavy duty bolts.; including 75x100x5mm mild steel base angle plate with pre-drilled 10mm hole, welded to column. To be powder coated, colour: black, using rawl bolt fixing to slab; including 75x100x5mm mild steel columns fixed to wall and bench at an average of 1000mm centres; to be powder coated, colour: black; all as plans, elevations and cross sections on drawing MDA380-112.	No	3
2/6/40	L-shaped bench 762mm long x 350mm wide x 300mm high and 1281mm long x 350mm wide x 300mm high consisting of 50x25mm secret fix + plugged SA Pine slats, 3 coats clear matt varnish across the length of the bench, plugged and screwed to 37x22x4mm galv. gallow brackets bolted to wall at max 424mm centres, using rawl bolt fixing to wall; all as plans, elevations and cross sections on drawing MDA380-112 & MDA380-116.	No	2
Carried Forward			R
Section No. 2 Building Works Bill No. 6 Carpentry and Joinery			

Brought Forward			R
2/6/41	38x228mm S.A pine timber fixed to either side of steel column pre-cut openings finished with 3 coats Woodoc 20 polyurethane clear gloss varnish; fixed using 50x22x3mm galvanised mild steel bracket welded to steel column	m	24
2/6/42	75mm x 38mm thick Meranti backing board plugged and screwed to brickwork.	m	4
2/6/43	Dorma (or similar approved) wall mounted stainless steel coat hook (code: DHC-SS-030-A) plugged and screwed to wall	No	56
<u>Lockers</u>			
2/6/44	Lockers 4450mm long x 500mm wide x 2000mm high fixed to wall; all as plans, elevations and cross sections on drawing MDA380-112.	No	1
2/6/45	Lockers 3556mm long x 500mm wide x 2000mm high fixed to wall; all as plans, elevations and cross sections on drawing MDA380-112.	No	1
2/6/46	Lockers 1281mm long x 500mm wide x 500mm high and 762mm long x 500mm wide x 500mm high; fixed to wall; all as plans, elevations and cross sections on drawing MDA380-116.	No	2
Carried Forward to Summary of Section No. 2			R
Section No. 2 Building Works Bill No. 6 Carpentry and Joinery			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILINGS</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted", these bolts have been given elsewhere</p> <p><u>Ceilings</u></p> <p>Unless otherwise described, ceilings shall be deemed to be horizontal</p> <p><u>Fire barriers above ceilings</u></p>			
	Carried Forward			R
	<p>Section No. 2 Building Works Bill No. 7 Ceilings, Partitions & Access Flooring</p>			

Brought Forward			R
<p>Fire barriers above ceilings shall be with one hour fire rating formed of one layer of 12.5mm taper-edged "Taper-edge Rhino Firestop Board" fixed with 25mm drywall staker screws to each side of timber roof trusses with 80kg/m³ "Rhino Flam" wire meshed mineral fibre blanket inserted in cavity, all in accordance with the materials supplied and methods employed by the Manufacturer (Provisional)</p> <p>All top and bottom edges, abutments, openings, etc. are to be sealed to maintain the specified fire rating</p> <p style="text-align: center;">-----</p> <p><u>SUSPENDED CEILINGS</u></p> <p><u>Proprietary suspended ceilings</u></p> <p><u>Note:</u></p> <p>Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>User note:</u></p> <p>a) The above note to be included in the bills of quantities after confirmation of the basic design of the ceilings, lighting, air conditioning, etc</p> <p><u>600mm x 600mm nutec everite vinyl clad ceiling board on Donn-T system to be fixed to underside of concrete slab</u></p>			
2/7/1	Ceilings suspended not exceeding 1m below concrete soffits	m2	938
2/7/2	Shadowline cornices	m	282
Carried Forward			R
<p>Section No. 2 Building Works Bill No. 7 Ceilings, Partitions & Access Flooring</p>			

Brought Forward		R
2/7/3	<p><u>18mm "Nutec" fibre-cement boards with H-profile cover strips over joints</u></p> <p>Ceilings including 38 x 38mm sawn softwood branderling as per architect's specification</p> <p style="text-align: right;">m2</p>	8
2/7/4	<p><u>Gyproc 6,5mm Gypson "Rhino Ceil" (or similar approved) flush plastered ceiling with square edged rhino board fixed print side up to timber or aluminium sub frame</u></p> <p>Soffit and side of horizontal bulkheads, size 300 x 600mm deep, suspended not exceeding 1m below concrete soffits</p> <p style="text-align: right;">m</p>	148
2/7/5	<p>Soffit and side of horizontal bulkheads, size 790 x 300mm deep, suspended not exceeding 1m below concrete soffits</p> <p style="text-align: right;">m</p>	11
2/7/6	<p>Soffit and side of horizontal bulkheads, size 790 x 156mm deep, suspended not exceeding 1m below concrete soffits</p> <p style="text-align: right;">m</p>	7
2/7/7	<p>Soffit and side of horizontal bulkheads, size 490 x 600mm deep, suspended not exceeding 1m below concrete soffits</p> <p style="text-align: right;">m</p>	9
<p>Carried Forward to Summary of Section No. 2</p>		R
<p>Section No. 2 Building Works Bill No. 7 Ceilings, Partitions & Access Flooring</p>		

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 8</u></p> <p><u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Floor coverings and wall linings</u></p> <p>All floor coverings and linings are to be supplied, laid and sealed complete on a cement screed (screed elsewhere) under guarantee by an approved firm of Specialists</p> <p><u>Sealing of joints</u></p> <p>All joints between floor coverings and wall linings to be butted and heat welded ensuring the welding agent bonds to more than 70% of the respective sheet thickness</p> <p>All abutments between floor coverings, wall linings, etc. and other members, ie. fittings, skirtings, corner protectors, etc. are to properly sealed with an approved silicon of an approved colour</p> <p>-----</p> <p><u>FLOOR COVERINGS</u></p>			
	Carried Forward		R	
	<p>Section No. 2 Building Works Bill No. 8 Floor coverings, Plastic linings, etc</p>			

Brought Forward			R
2/8/1	<p><u>Belgotex (or similar approved) Grid carpet tiles manufactured from Stainproof SDX (Solution Dyed Nylon-6). Belgotex Grid can be installed in the following directions: Tessellated, Ashlar, Brick, Monolithic & Random. Belgotex Grid carpet tiles must be tessellated at installation. Use carpet protector mats where castor wheels are used. Product is to be laid in accordance with SANS 10186 fitting code of practice. Colour: Sunset</u></p> <p>On floors</p>	m2	108
2/8/2	<p><u>Belgotex (or similar approved) Skew Lines 50cm x 50cm NexBac tiles manufactured from Stainproof SDX Eco (Solution Dyed Nylon). Belgotex Skew Lines can be installed in the following directions: tessellated, random, monolithic, brick and ashlar. Belgotex Skew lines carpet tiles must be tessellated at installation. Use carpet protector mats where castor wheels are used. Product is to be laid in accordance with SANS 10186 fitting code of practice. Colour: Live Wire</u></p> <p>On floors</p>	m2	131
2/8/3	<p><u>Belgotex (or similar approved) BERBER POINT 920 3.66m ResinBac Broadloom. Mix colours "Charcoal"(50%) with "Boron" (25%) and "Jasper" (25%) pattern as per Architects detail. Product is to be laid in accordance with SANS 10186 fitting code of practice. Belgotex or similar approved BERBER POINT 920 ResinBac and NexBac tiles must be tessellated at installation</u></p> <p>On floors</p>	m2	75
Carried Forward			R
<p>Section No. 2 Building Works Bill No. 8 Floor coverings, Plastic linings, etc</p>			

		Brought Forward		R	
2/8/4	On floors	<u>500x500x5mm square exposed joint matlock pvc interlocking floor rubber tiles Color: Black</u>	m2	41	
		Carried Forward to Summary of Section No. 2			R
		Section No. 2 Building Works Bill No. 8 Floor coverings, Plastic linings, etc			

<p style="text-align: center;">Brought Forward</p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <p><u>Finishes to ironmongery</u></p> <p>BS - Satin bronze lacquered CH - Chromium plated SC - Satin chromium plated SE - Silver enamelled GE - Grey enamelled AS - Anodised silver AB - Anodised bronze AG - Anodised gold ABL - Anodised black PB - Polished brass PL - Polished and lacquered PT - Epoxy coated SD - Sanded</p> <p>-----</p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Building Works Bill No. 9 Ironmongery</p>		R	

Brought Forward			R

<u>HINGES, BOLTS, ETC</u>			
2/9/1	200mm Alufab (or similar approved) Aluminium Sinkless Hinges, with centre pin, with anodised finish (Code 2040)	No	51
2/9/2	1 Pair Dormakaba (or similar approved) 102x75x3mm Two Ball Bearing Butt Hinge, with Stainless Steel finish (code DBB-SS-009)	No	31
2/9/3	Alufab (or similar approved) 150mm Anodised Aluminium Flush Bolts (codeM1519AS)	No	8
2/9/4	Dormakaba (or similar approved) 66mm five pin Euro-profile Knob Cylinder, with a satin nickel finish, Master Keyed	No	20
2/9/5	Dormakaba (or similar approved) rebate conversion kit for Euro Profile locks D036S,D037D, with nickel plated finish, (code D038R NP)	No	1
2/9/6	Dormakaba (or similar approved) 153mm manual flush bolt with heel, with satin chrome finish, (code DFB-SC-180)	No	2
<u>CATCHES, CABIN HOOKS, ETC</u>			
2/9/7	Dormakaba (or similar approved) Dust Proof Strike, with a stainless steel finish (codeDPS-SS-032)	No	4
2/9/8	Dormakaba (or similar approved) Hat and Coat Hook with rubber buffer, with a stainless steel finish (code DHC-SS-031B)	No	2
2/9/9	Halstead (or similar approved) 200 mm SC on Brass Cabin Hook and Eye With 100x100x75mm Chamfered Wrot Meranti Block	No	2
<u>LOCKS, ETC</u>			
The following locks are to be suitable for master key operation			
Carried Forward			R
Section No. 2 Building Works Bill No. 9 Ironmongery			

Brought Forward			R
2/9/10	Dormakaba (or similar approved) Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm. Centres 61mm, with stainless steel finish (code D036S SS)	No	20
2/9/11	Dormakaba (or similar approved) Bathroom Sash Lock. Case dimensions (mm) 102H x 78D. Forend dimensions (mm) 155H x 22W. Backset 57mm. Centres 57mm., with stainless steel finish (code D035S SS)	No	2
2/9/12	1 Set Dormakaba (or similar approved) Bathroom WC indicator (Red and White) and turn knob., with stainless steel finish (code DWC-005)	No	7
2/9/13	Dormakaba (or similar approved) 43mm five pin Euro-profile Single Cylinder, with satin nickel finish (code DSC104301 MK 43mm)	No	1
2/9/14	Dormakaba (or similar approved) 50mm Padlock with a satin nickel finish (code DPL1000 MK)	No	11
2/9/15	Dormakaba (or similar approved) Cylinder Deadlock. Case dimensions (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm, with a stainless steel finish. (code D037D SS)	No	5
2/9/16	Dormakaba (or similar approved) 66mm five pin Euro-profile Double Cylinder, Master Keyed, with satin nickel finish (code DDC106601 MK)	No	4
2/9/17	1 Pair Dormakaba (or similar approved) Round Cylinder escutcheon, with stainless steel finish (code DCE-002SS)	No	5
2/9/18	1 Set Dormakaba (or similar approved) BTS75 Adjustable size EN 1-4 NON HOLD OPEN, Certified to EN1154, with SINGLE ACTION accessories, for 120kg door leaf weight, Adjustable closing and latching speeds, Backcheck. [NOT FIRE RATED] [FOR ALUMINIUM DOORS] [NO COVER CAPS] Components - (Mech/Spindle/7510SS/7456/1/7411K/56E), stainless steel cover finish (code BTS75 SAA-NHO)	No	2
Carried Forward			R
Section No. 2 Building Works Bill No. 9 Ironmongery			

Brought Forward			R
2/9/19	1 Set Dormakaba (or similar approved) Two point locking panic bar - Single door - Door leaf 1000mm wide x 2270mm high (2201. 2104. PHX02. PHX04) (code PHA2 S SD)	No	2
2/9/20	1 Set Dormakaba (or similar approved) EN 3-6 Parallel Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Parallel Arm Bracket Included) EN3 850-950, EN4 950-1100, EN5 1100-1250, EN6 1250-1400. Door Closer tested to EN 1154. Approved to AS1905 Part 1 Fire Resistant Doors. Certified manufacturer to ISO 9001, silver finish (code TS83PA with Parallel Arm Bracket)	No	2
<u>HANDLES</u>			
2/9/21	1 Pair Dormakaba (or similar approved) Lever handle on rose - Latch with a stainless steel finish (code CR001 Latch SS)	No	3
2/9/22	1 Pair Dormakaba (or similar approved) Lever handle on rose with cylinder escutcheons, with a stainless steel finish (code CR001 Cyl SS)	No	24
2/9/23	1 Pair dormakaba (or similar approved) 300x30mm Straight Tubular Pull Handle BTB (BTB Fixing Sets included) (code DPH210 BTB)	No	4
2/9/24	1 Pair Dormakaba (or similar approved) 382x32mm D Shaped Offset Tubular Pull Handle BTB (BTB Fixing Sets included), with a stainless steel finish (code DPH215 BTB)	No	8
2/9/25	Dormakaba (or similar approved) mechanical hold open cam action slide channel door closer. Max door width 1100mm. Closing Force EN 2-4V. Adjustable strength. Hydraulic speed control. Pull-side door leaf fixing (Standard), Push-side transom fixing. Door closer compliant with EN 1154. Door closer is CERTI FIRE approved (Certificate No. CF 119) for door types ITT 120, MM/IMM 240. Certified manufacturer to ISO 9001, with a silver finish (code TS92B HO-SL)	No	3
Carried Forward			R
Section No. 2 Building Works Bill No. 9 Ironmongery			

Brought Forward			R
2/9/26	Dormakaba (or similar approved) Non Hold Open Cam action slide channel door closer. Max door width 950mm. Closing Force EN 3. Hydraulic speed control. Pull-side door leaf fixing (Standard), Push-side transom fixing. Door closer compliant with EN 1154. Door closer is CERTI FIRE approved (Certificate No. CF 119) for door types ITT 120, MM/IMM 240. Certified manufacturer to ISO 9001 with silver finish (code TS91B-SL)	No	4
<u>PUSH PLATES AND KICKING PLATES</u>			
2/9/27	Dormakaba (or similar approved) 300x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 12 countersunk holes for screw fixing (code DKP-430-SF300)	No	14
<u>LETTERS, NAMEPLATES, ETC</u>			
2/9/28	Dormakaba (or similar approved) stainless steel 150x150mm FEMALE sign (code DSS-131 F)	No	3
2/9/29	Dormakaba (or similar approved) stainless steel 150x150mm MALE sign (code DSS-130 M)	No	3
<u>SUNDRIES</u>			
2/9/30	Dormakaba (or similar approved) Floor Mounted Door Stop, plugged and screwed to floor (code DPS-SS-032)	No	5
2/9/31	Dormakaba (or similar approved) Floor Mounted Door Stop, plugged and screwed to floor (code DDS-SS-017)	No	25
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS ETC</u>			
Carried Forward			R
Section No. 2 Building Works Bill No. 9 Ironmongery			

Brought Forward			R
<u>"Vitrex" or other equal and approved vitreous enamelled writing boards, etc to SABS CSK-36-1980</u>			
2/9/32	Vitrex System 1000 standard vitreous enamel steel, wall mounted school chalk board, consisting of two (2) standard boards size 1140 mm high x 2400 mm long, reference (1009), complete with Aluminium Chalk Rail (ACR), fixing components and secured in position to brickwork.	No	2
2/9/33	Vitrex standard vitreous enamel steel, wall mounted educational range white board, overall size 1200 mm high x 4800 mm wide, consisting of two (2) standard boards size 1200 mm high x 2400 mm wide, reference (2209), complete with integral anodised aluminium pen rail, fixing components and secured in position to brickwork.	No	11
2/9/34	2400mm Wide x 1200mm high pinning board, as per detail, mounted to wall with 6 x 57mm Hilti HPS-1 6/30 plastic anchors at maximum 400mm centres. Top of frame to be in line with underside of window soffits. Anchor heads to be countersunk and filled with a suitable wood filler. Paint to frames:Surface to be dry, sound and clean. Wash knots and resinous areas with lacquer thinners and coat with Plascon Woodcare Knot Seal and apply one coat of Plascon Woodcare Pretreatment. Prime with one coat of Wood Primer and finish with two coats of Velvagio Satin of selected colour, sanding lightly between coats	No	4
<u>BATHROOM FITTINGS</u>			
2/9/35	Franke RODAN (or similar approved) stainless steel toilet roll holder for wall mounting Code:ROD X672	No	11
2/9/36	Franke RODAN (or similar approved) stainless steel waste bin for wall mounting Code:ROD X605	No	5
2/9/37	Franke RODAN (or similar approved) stainless steel paper towel dispenser for wall mounting Code:ROD X600	No	5
Carried Forward			R
Section No. 2 Building Works Bill No. 9 Ironmongery			

Brought Forward			R
2/9/38	Franke RODAN (or similar approved) touch free electronic warm air hand dryer for wall mounting, stainless steel, surface satin finished, material thickness 1.2 mm, infrared sensor activity for non-touch operation. Code: RODX310	No	5
2/9/39	Franke (or similar approved) grade 304 stainless steel elbow operated Model HSD hand sanitizer dispenser with 500ml refillable pump action plastic bottle. Code: 2120125	No	7
2/9/40	19mm diameter stainless steel towel double rail 650mm long including end brackets plugged	No	6
2/9/41	Franke (or similar approved) stainless steel recessed soap dispenser wall mounted liquid (Code/SKU: ROD X619E)	No	1
2/9/42	Franke (or similar approved) 200 x 85 x 140mm push-button stainless steel soap dispenser wall mounted liquid (Code/SKU: ROD X619)	No	9
2/9/43	Stainless steel toilet brush and holder plugged including accessories (Code: 8238POL5)	No	11
2/9/44	Stainless steel condom dispenser plugged including accessories	No	6
2/9/45	Franke (or similar approved) CNTX (code: 359874) 750 32mm diameter Grade 304 18/10 stainless steel grab rails, size 750mm x 95mm deep with Franke Fine Grip surface, plugged and screwed to the wall with stainless steel screws. Franke CNTX PAR (code: 359885) Grade 304 18/10 stainless steel paraplegic grab rails , size 640 x 640 x 96mm deep with Franke Fine Grip surface, plugged and screwed to the wall with stainless steel screws.	No	1
2/9/46	Franke (or similar approved) CNTX 300 32mm diameter Grade 304 18/10 stainless steel grab rails (code: 359869), size 300mm x 95mm deep with Franke Fine Grip surface, screwed to the door with stainless steel screws	No	1
Carried Forward			R
Section No. 2 Building Works Bill No. 9 Ironmongery			

Brought Forward			R
2/9/47	Rubbermaid (or similar approved) (Code: SBP 0500) 12 litre, 435mm(w) x 465mm(h) x 115mm(d) White plastic sanitary bin with heavy duty pedal	No	6
2/9/48	Hafele (or similar approved) Fix Mop holders code 520.10.009, size - 51mm (w) x 40mm (d) x 50mm (h) - finish spring steel, bright galvanized with rollers of rubber. Screw mounted to 32mm thick x 200mm high par meranti backing plate.	No	1
Carried Forward to Summary of Section No. 2			R
Section No. 2 Building Works Bill No. 9 Ironmongery			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centers</p> <p><u>Primer</u></p> <p>All surfaces of steelwork to be painted with one coat approved factory etch primer before leaving the workshop of the Manufacturer and all scratches, chips or blemishes to be made good on site after erection. All rates tendered must make provision for this as no claim will afterwards be entertained.</p>			
	Carried Forward		R	
	<p>Section No. 2 Building Works Bill No. 10 Metalwork</p>			

Brought Forward			R
	<p><u>Door frames</u></p> <p>Unless otherwise described, the following shall be applicable on all door frames:</p> <ul style="list-style-type: none"> - Frames shall be double rebated suitable for 40mm thick doors - One jamb of all frames for single doors shall be factory prepared for striking plate of mortice lock <p style="text-align: center;">-----</p> <p><u>STEEL WINDOWS, DOORS, ETC</u></p> <p>NOTE : Where so described windows shall be fitted with burglar bars consisting of 20 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame</p> <p><u>Purpose made door suitable for one brick walls</u></p>		
2/10/1	<p>Purpose made duct door 900 x 2100mm high made of nutec planks 100 x 12mm medium density fixed to steel frame with 50 x 5.5mm s.s self tapping screw; including 50mm X 50mm X 4mm galvanized mild steel rectangular hollow section welded to form frame, 75mm x 75mm Galvanized mild steel square section, place diagonally in main frame placed at 100mm centers.</p>	No	1
	<p><u>STEEL ROLLER SHUTTERS ETC</u></p> <p><u>Roller shutters fixed to brickwork or concrete</u></p>		
2/10/2	<p>5000mm x 6215mm high Fire rated Serranda (or equal approved) electric operated 380V motor consisting of aluminium framed panels with 5mm tempered glass vision windows, powder coated grey or red; including manual chain override in case of power failure; galvanised housing and side rails bolted to RC concrete beams, as per manufacturer's specification (RSD01)</p>	No	8
Carried Forward			R
<p>Section No. 2 Building Works Bill No. 10 Metalwork</p>			

Brought Forward			R
2/10/3	<p>3500mm x 2125mm high Fire rated Serranda (or equal approved) crank operated galv. heavy duty metal slatted roller shutter, with 76mm interlocking slats, galvanized; slide bolts, fitted for padlock; galvanised housing and side rails bolted to RC concrete beams, as per manufacturer's specification (RSD02)</p> <p style="text-align: right;">No</p>	3	
<p><u>GALVANIZED STEEL HANDRAILS, BALUSTRADES, ETC</u></p> <p><u>Welded handrails to concrete</u></p>			
2/10/4	<p>50mm x 30mm thick purpose made meranti hardwood balustrade handrail, to be painted with Plascon Woodcare Clear varnish with rounded top edges fixed to 80mm x 100mm x 5mm thick purpose made galvanized mild steel plate to be welded between balustrade profiles at interval as per detail drawings, finished with dark grey paint (Plascon Velvagio:Bovine-47) to specialist specification fixed to 50mmØ x 1255Lmm purpose made galvanized mild steel balustrade posts. Welded between balustrade profiles at interval as per detail drawings. finished with dark grey paint (Plascon Velvagio: Bovine-47) to specialist specification; as per architect's drawing MDA380-106; 1200mm high</p> <p style="text-align: right;">m</p>	26	
<p><u>ALUMINIUM WINDOWS, DOORS, ETC</u></p> <p>A detail specification is to be inserted as necessary</p> <p>Note: Tenderers are to read the descriptions in the BOQ in conjunction with the architect's drawings and schedules</p> <p>All ironmongery is deemed to be included</p> <p>All opening sections to be factory fitted with 18x 12x 1.2mm rectangular aluminium burglar bars. Colour to be matte black. Fixed with pop rivet screws and closed off on either end with PVC end caps.</p>			
Carried Forward			R
<p>Section No. 2 Building Works Bill No. 10 Metalwork</p>			

Brought Forward			R
<p><u>Powder coated black aluminium window frame with minimum 50mm wide extrusions, glazed with 6.38mm laminated HPR clear glass and plugged to brickwork or concrete, including all ironmongery, buffers, burglar bars (as detailed in the preamble) internally to all window openings fixed to reveal of openings, etc</u></p>			
2/10/5	Window size 2000 x 520mm high, with one fixed panel 925 x 520mm high and an opening glazed panel 925 x 520mm high (W01)	No	9
2/10/6	Window size 1000 x 520mm high with one opening glazed panel (W02)	No	3
<p><u>Powder coated black aluminium window frame with minimum 50mm wide extrusions, glazed with 6.38mm laminated HPR clear glass and plugged to brickwork or concrete, including all ironmongery, buffers, burglar bars (as detailed in the preamble) internally to all window openings fixed to reveal of openings, etc</u></p>			
2/10/7	Window size 500 x 520mm high, top hung opening panel (W03)	No	17
2/10/8	Window size 900 x 1540mm high, with the bottom 900 x 840mm fixed glazed panel and top 900 x 550mm opening glazed panel (W04)	No	26
2/10/9	Window size 2920 x 1115mm high, with two 910 x 1115 fixed glazed panels and one 910 x 1115mm sliding panel (W05)	No	1
2/10/10	Window size 4755 x 1720mm high, with two 2305 x 1670 fixed glazed panels (W06)	No	1
2/10/11	Window size 1905 x 990mm height on one end and 585mm height on the other end, with three fixed glazed panels (W08)	No	1
2/10/12	Window size 5350 x 4270mm height on one end and 3610mm height on the other end, with six fixed glazed panels (W09)	No	2
Carried Forward			R
Section No. 2 Building Works Bill No. 10 Metalwork			

Brought Forward			R
2/10/13	Window size 5300 x 2925mm height on one end and 2275mm height on the other end, with three fixed glazed panels (W10)	No	2
2/10/14	Window size 4540 x 1155mm high, with four fixed glazed panels and two sliding glazed panels (W07)	No	1
2/10/15	Window size 3500 x 500mm high, with one fixed glazed panels and two opening glazed panels (W11)	No	3
2/10/16	Window size 4135 x 1860mm high, with four fixed glazed panels (W12)	No	1
2/10/17	Window size 5105 x 1860mm high, with four fixed glazed panels (W13)	No	1
2/10/18	Window size 4575 x 1860mm high, with four fixed glazed panels (W14)	No	1
2/10/19	Window size 3885 x 1860mm high, with four fixed glazed panels (W15)	No	1
2/10/20	Window size 3725 x 1860mm high, with four fixed glazed panels (W16)	No	1
	<u>Powder coated black aluminium shopfronts framed with minimum 50mm wide extrusions, glazed with 6.38mm laminated HPR clear glass and plugged to brickwork or concrete, including all ironmongery, buffers, burglar bars (as detailed in the preamble) internally to all window openings fixed to reveal of openings, etc</u>		
2/10/21	Shopfront size 3940 x 6215mm high, with twelve fixed glazed panels, door elsewhere measured (SF01)	No	1
2/10/22	Shopfront size 3625 x 2125mm high, with three fixed glazed panels (SF02)	No	1
2/10/23	Shopfront size 4810 x 1985mm high, with six fixed glazed panels (SF03)	No	2
2/10/24	Shopfront size 4010 x 3925mm high, with eight fixed glazed panels (SF04)	No	4
Carried Forward			R
Section No. 2 Building Works Bill No. 10 Metalwork			

Brought Forward			R
2/10/25	Shopfront size 3625 x 1975mm high, with three fixed glazed panels (SF05)	No	1
2/10/26	Shopfront size 5750 x 1125mm high, with five fixed glazed panels (SF06)	No	1
2/10/27	Shopfront size 480 x 1975mm high, with one fixed glazed panel (SF07)	No	1
2/10/28	Shopfront size 1490 x 1975mm high, with two fixed glazed panel (SF08)	No	1
<p><u>Powder coated black aluminium doors, sidelights and fanlights glazed with 6.38mm laminated HPR clear glass, framed with minimum 50mm wide extrusions with rebated lips and rubberised buffers at rebates and plugged to brickwork or concrete</u></p>			
2/10/29	Purpose made glazed door 900 x 2125mm high, with two glazed panels, and bottom panel glazed with translucent vinyl, interlayer color to be confirmed by architect (D07)	No	11
2/10/30	Purpose made glazed double swing door 1800 x 2125mm (D01)	No	1
2/10/31	Purpose made glazed double swing door 1800 x 2125mm high, with four glazed panels and the bottom two panels glazed with translucent vinyl, interlayer color to be confirmed by architect (D06)	No	3
<p><u>SHOWER CUBICLE DOORS</u></p>			
<p><u>Natural anodised aluminium 5mm toughened obscure safety glass plugged to tiled walls</u></p>			
2/10/32	915mm x 2125mm high joined to the adjacent glass door and plugged to tiled wall on the other end	No	4
2/10/33	Pivot door 900 x 1850mm high	No	6
<p><u>GALVANIZED ANODISED ALUMINIUM LOUVRE PANELS</u></p>			
Carried Forward			R
<p>Section No. 2 Building Works Bill No. 10 Metalwork</p>			

Brought Forward			R
<p><u>"Trolox Weather-Resistance" (or similar approved) type AWL Aluminium adjustable louvre units with 50mm flange screwed into roof sheeting and/or steel members as per architects detail</u></p>			
2/10/34	2150 x 905mm high with manufacturer's insect screen and wire mesh screen in stainless steel	No	10
2/10/35	2150 x 3600mm high with manufacturer's insect screen and wire mesh screen in stainless steel	No	10
<p><u>SUNDRIES</u></p>			
2/10/36	1000mm wide U-shaped sunscreen 8757mm in length, including 60.3 diameter Galv mild steel tube section welded to 3.0mm connector plates, 180mmx90mmx12mm thick half round galv. mild steel connection welded onto 120mmx60mmx3mm base plate. Base plate bolted galv mild steel frame, 60mmx130mmx3mm thick galv mild steel square section frame, all connections to be pre welded before galvanising, 90x90x3mm thick galv mild steel square section louvre, all connections to be pre welded before galvanising, 70x70x6mm Galv mild steel angle connection bolted to RC beam & welded to RHS; all bolted to concrete with and including expansion bolts as per architects detail on drawing MDA380-111	No	2
2/10/37	Welded cat-ladder 1265mm wide and 8010mm high, formed of 65 x 10mm flat section stringers and 20mm diameter galvanised mild steel bar rungs 1265mm long at approximately 230mm centres including flat and angle section connections, anchors etc as per architect drawing number MDA380-107	No	2
<p><u>"Windovert" or similar approved aluminium venetian blinds</u></p>			
2/10/38	50mm aluminium blinds with a matt finish with a traditional ladder string	m2	68
<p><u>Fireman's post</u></p>			
2/10/39	100mm diameter hollow stainless steel pipe	m	40
Carried Forward			R
<p>Section No. 2 Building Works Bill No. 10 Metalwork</p>			

Brought Forward				R
2/10/40	502 x 502mm base plate with 12mm pre-drilled inserts, fixed to concrete slab using 10mm heavy duty anchor bolts.	No	6	
2/10/41	200mm x 400mm base plate with 12mm pre-drilled inserts, fixed to concrete slab using 10mm heavy duty anchor bolts	No	6	
2/10/42	1000mm x 1000mm x 300mm high density foam gym mat.	No	6	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Building Works Bill No. 10 Metalwork				

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>STRUCTURAL STEEL</u></p> <p><u>NOTE:</u> Wherever a trade name for any product has been described in the bills of quantities, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders.</p> <p>If prior written approval is not obtained, the product described shall be deemed to have been tendered for.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions of bolts, anchors, etc</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p>			
	Carried Forward		R	
	<p>Section No. 2 Building Works Bill No. 11 Structural Steel</p>			

Brought Forward			R
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p><u>STEEL COLUMNS AND BEAMS</u></p> <p><u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted</u></p>			
2/11/1	254 x 146mm x 37kg/m I-section columns	t	0.59
<p><u>STEEL ROOF</u></p>			
2/11/2	Steel roof fitted including all necessary trusses, bracing, purlins, nuts, bolts etc, painted (main building, garage, wash bay)	t	42.04
2/11/3	Steel canopy fitted including all necessary beams, bracing, purlins, nuts, bolts etc, painted (Entrance canopy & watch room canopy)	t	1.45
Carried Forward to Summary of Section No. 2			R
<p>Section No. 2 Building Works Bill No. 11 Structural Steel</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Textured finishes</u></p> <p>All textured finishes are to be applied to the satisfaction of the Principal Agent and executed by an approved firm of Specialists, all strictly in accordance with the materials supplied and methods employed by the Manufacturer</p> <p><u>Preparatory work for textured finishes</u></p> <p>Textured finishes to be applied to surfaces as described. Rates tendered are to include for all necessary priming, preparatory work, etc</p> <p>All surfaces are to be inspected and approved by the Principal Agent prior any work is commenced with</p> <p>-----</p> <p><u>SCREEDS</u></p> <p><u>Screeds on concrete</u></p>			
2/12/1	30mm Thick on floors	m2	1,474	
2/12/2	30mm Thick self levelling on floors	m2	106	
	Carried Forward			R
	Section No. 2 Building Works Bill No. 12 Plastering			

Brought Forward			R
2/12/3	Prepare and apply a.b.e. Korocron (or similar approved), solvent free epoxy flooring system and comprising a resin hardener system, pre-packed aggregates and pigment including all necessary primers, sealing etc, all in accordance with the manufacturer's instructions	m2	106
2/12/4	Prepare and apply flowcrete (or similar approved) flowfresh SR ultra 4mm non-slip self-leveling and comprising a resin decorative floor finish, including sealing etc; Dusty grey color; all in accordance with the manufacturer's instructions	m2	948
2/12/5	Flowcrete S1 (or similar approved) 75x75mm quarter rounded coved skirting. Epoxy resin cove skirting to be as per floor finish and extend up wall for 150mm. Plaster surface to be sanded/ grounded smooth before application. Minimum thickness of top of cove skirting to be 12mm at point of intersection with wall finish/ tile	m	372
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
2/12/6	On walls	m2	152
2/12/7	On narrow widths	m2	16
2/12/8	On sides and front edge of surrounds 120mm girth (around door and window openings)	m	55
<u>2.5mm Cemcote smooth trowel</u>			
2/12/9	On external walls and concrete	m2	799
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
2/12/10	On walls	m2	2,022
2/12/11	On narrow widths	m2	72
Carried Forward			R
Section No. 2 Building Works Bill No. 12 Plastering			

Brought Forward			R
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
2/12/12	3 x 25mm Flat section brass weather bar between different floor finishes	m	50
2/12/13	Kirk (or similar approved) marketing trim, new straight edge trim 10mm height. 3mm sightline. Matt black anodised finish	m	60
Carried Forward to Summary of Section No. 2			R
Section No. 2 Building Works Bill No. 12 Plastering			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 13</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p><u>Prices</u></p> <p>Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete. Any additional area caused by the thickness of tiling and screed are to be allowed for in prices</p> <p><u>Unglazed split tiles</u></p> <p>All tiles to be true and even in shape and free from cracks, chips, blemishes and other defects and to be factory sealed with approved sealer. All tiles to be dipped in water for 24 hours immediately before fixing and are to be bedded in and including cement mortar, unless otherwise described, to true and even surfaces and grouted with 6mm wide continuous joints in both directions, all strictly in accordance with the Manufacture's instructions</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Building Works Bill No. 13 Tiling</p>			R

Brought Forward			R
<u>WALL TILING</u>			
<u>300 x 300 crystal grey subway tile fixed with adhesive to plaster</u>			
2/13/1	On walls	m2	207
2/13/2	On narrow widths	m2	42
<u>600 x 600 concrete conere inkjet porcelain tile fixed with adhesive to plaster</u>			
2/13/3	On walls	m2	60
2/13/4	On narrow widths	m2	6
<u>Douglas Jones (or similar approved) 75 x 150mm verdi vic ceramic subway tile laid in heringbone pattern, fixed with adhesive to plaster</u>			
2/13/5	On walls	m2	36
<u>FLOOR TILING</u>			
<u>600 x 600 x 12mm full bodied porcelain tiles</u>			
2/13/6	On floors and landings	m2	165
2/13/7	On Skirting	m	103
<u>266 x 305 x 12mm thick Douglas Jones (or similar approved) black gloss cube mosaic ceramic tiles (Code 872)</u>			
2/13/8	On sloping floors (showers)	m2	6
Carried Forward to Summary of Section No. 2			R
Section No. 2 Building Works Bill No. 13 Tiling			

Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p> <p><u>BILL NO. 14</u></p> <p><u>PLUMBING AND DRAINAGE - SMME</u></p>			
<p>Carried Forward to Summary of Section No. 2</p>			R
<p>Section No. 2 Building Works Bill No. 14 Plumbing and Drainage</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 15</u></p> <p><u>PAINTWORK</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Description</u></p> <p>Descriptions of paintwork shall be deemed to include for all cutting in</p> <p><u>Paint Specifications</u></p> <p>All painting shall be done in accordance with "Plascon-Evans" specifications</p> <p><u>Paint</u></p> <p>All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed</p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p>-----</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Building Works Bill No. 15 Paintwork</p>			R

Brought Forward			R
<u>PAINTWORK, ETC TO NEW WORK ON</u>			
<u>FLOATED PLASTER SURFACES WITH</u>			
<u>Prepare, stop and apply universal undercoat and two coats of approved acrylic pva suitable for washing. Plaster surface should be smooth, clean and dry prior to application</u>			
2/15/1	Internal walls	m2	1,980
2/15/2	On narrow widths	m2	73
2/15/3	On ceilings	m2	303
<u>Prepare, stop and prime with one coat of primer and finish with two coats of approved eggshell enamel paint of selected colour.</u>			
2/15/4	Internal walls	m2	44
2/15/5	On narrow widths	m2	12
<u>ON FIBRE-CEMENT</u>			
<u>Prepare and apply one coat undercoat and two coats enamel</u>			
2/15/6	Fibre cement cills not exceeding 300 mm girth	m	120
2/15/7	Nutec duct door consisting of individual 100 x 12mm nutec planks, painted on all sides	m2	4
<u>ON PLASTER BOARD</u>			
<u>One coat bonding liquid, universal undercoat and two coats washable acrylic PVA emulsion paint</u>			
2/15/8	On ceilings and beams	m2	259
<u>ON METAL</u>			
<u>Degrease, apply one coat galvagrip primer and two coat high gloss enamel paint on steel</u>			
2/15/9	On door frames	m2	0.5
Carried Forward			R
Section No. 2 Building Works Bill No. 15 Paintwork			

Brought Forward			R
<u>WOOD SURFACES WITH</u>			
<u>One coat wood primer, universal undercoat and two coats Plascon velvaglo (or similar approved)</u>			
2/15/10	On door frames etc	m2	28
2/15/11	Doors	m2	57
<u>One coat wood primer and two coats polyurethane clear varnish</u>			
2/15/12	Skirtings, cornices, rails, etc not exceeding 300mm girth	m	272
Carried Forward to Summary of Section No. 2			R
Section No. 2 Building Works Bill No. 15 Paintwork			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 16</u></p> <p><u>GLAZING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill.</p> <p>Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved".</p> <p>Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 150 for CPAP formula purposes.</p> <p>-----</p> <p><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></p> <p><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></p>			
2/16/1	Mirror 420 x 962mm high with four screws	No	15	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Building Works Bill No. 16 Glazing			

Bill No	<u>SECTION SUMMARY - Building Works</u>	Page No	Amount
	Section No. 2		
	Building Works		
	<u>SECTION SUMMARY - Building Works</u>		
2/1	Earthworks	54	
2/2	Concrete, Formwork and Reinforcement	59	
2/3	Masonry	60	
2/4	Waterproofing	62	
2/5	Roof Covering	65	
2/6	Carpentry and Joinery	76	
2/7	Ceilings, Partitions & Access Flooring	79	
2/8	Floor coverings, Plastic linings, etc	82	
2/9	Ironmongery	91	
2/10	Metalwork	99	
2/11	Structural Steel	101	
2/12	Plastering	104	
2/13	Tiling	106	
2/14	Plumbing and Drainage	107	
2/15	Paintwork	110	
2/16	Glazing	111	
	Carried to Final Summary		R
	Section No. 2		
	Building Works		

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 1</u>			
	<u>EXTERNAL WORK</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	NOTE: 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 is not obtained, the product described shall be deemed to have been tendered for.			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	7,114	
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Open face excavation in earth over sloping site</u>			
3/1/2	Open face excavation (cut to spoil)	m3	2,528	
3/1/3	Open face excavation (cut to fill)	m3	864	
	<u>Extra over bulk excavation in earth for excavation in</u>			
3/1/4	Soft rock	m3	339	
3/1/5	Hard rock	m3	170	
	Carried Forward			R
	Section No. 3 External Works Bill No. 1 External Works			

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
3/1/6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	3,392
<u>Keeping excavations free of water</u>			
3/1/7	Keeping excavations free of all water other than subterranean water		Item
<u>Imported filling (G7 material) in layers of 150mm supplied by the contractor compacted to 93% Mod AASHTO density</u>			
3/1/8	Over site	m3	87
<u>Imported filling (G5 material) in layers of 100mm supplied by the contractor compacted to 95% Mod AASHTO density</u>			
3/1/9	Over site	m3	87
<u>Prescribed density tests on filling</u>			
3/1/10	"Modified AASHTO Density" test	No	10
<u>PAVING AND APRONS</u>			
<u>Excavations</u>			
3/1/11	Excavation to reduce levels under parking areas etc and depositing excavated material over site	m3	1,025
<u>Extra over bulk excavation in earth for excavation in</u>			
3/1/12	Soft rock	m3	0.3
3/1/13	Hard rock	m3	0.1
<u>Extra over all excavations for carting away</u>			
3/1/14	Surplus material from stock piles on site to a dumping site to be located by the contractor	m3	1,025
Carried Forward			R
Section No. 3 External Works Bill No. 1 External Works			

Brought Forward			R
	<u>Keeping excavations free of water</u>		
3/1/15	Keeping excavations free of all water other than subterranean water	Item	
	<u>Earth filling supplied by the contractor under pavings etc</u>		
3/1/16	Over site of G5 material in accordance with SABS 1200 DM compacted to 95% AASHTO density	m3	214
3/1/17	Over site of G6 material in accordance with SABS 1200 DM compacted to 95% AASHTO density	m3	470
3/1/18	Over site of G7 material in accordance with SABS 1200 DM compacted to 93% Mod AASHTO density	m3	801
	<u>Coarse river sand filling supplied by the contractor</u>		
3/1/19	25mm Thick bedding layer fill under paving, etc well compacted	m2	1,073
	<u>Filling supplied by the contractor under pavings etc</u>		
3/1/20	Over site of C3 cemented natural gravel base in accordance with SABS 1200 DM compacted to 97% AASHTO density under paving	m3	498
	<u>Compaction of surfaces</u>		
3/1/21	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 90% Mod AASHTO density	m2	3,418
	<u>Prescribed density tests on filling</u>		
3/1/22	Modified AASHTO density tests	No	6
	<u>Soil insecticide</u>		
3/1/23	To bottoms and sides of trenches etc	m2	3,409
Carried Forward			R
Section No. 3 External Works Bill No. 1 External Works			

Brought Forward			R
<u>25MPa/19mm Unreinforced concrete</u>			
3/1/24	Aprons, walkways, etc in panels including construction joints finished off with a nosing tool	m3	9
3/1/25	Ramps	m3	1
<u>25MPa/19mm Reinforced concrete</u>			
3/1/26	Surface beds on waterproofing	m3	352
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
3/1/27	Surface beds, slabs, aprons, ramps etc to falls	m2	2,453
<u>Rough formwork to sides</u>			
3/1/28	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	4
3/1/29	Edges exceeding 300mm high or wide	m2	1
<u>Fabric reinforcement</u>			
3/1/30	Type 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	2,453
<u>Precast concrete channels</u>			
3/1/31	800mm Wide x 125mm Thick channels with 50mm deep V-drain in top, including excavation, compaction etc	m	50
<u>Brickwork of NFP clay bricks in class II mortar</u>			
<u>One layer of 250 micron "Plastall Gunplas USB Green" waterproof sheeting Type C, sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
3/1/32	Under surface beds.	m2	2,453
<u>Screeds on concrete</u>			
3/1/33	30mm Thick on floors and landings	m2	9
Carried Forward			R
Section No. 3 External Works Bill No. 1 External Works			

Brought Forward			R
3/1/34	<p><u>Welded handrails to concrete</u></p> <p>12 x 45mm Painted Galvanised Mild Steel flat bar handrail with rounded top edges fixed to 10 x 40mm Galv.M.S Post with 10 x 35mm Galvanised Mild Steel Top Rail spanning between Posts; 10 x 40mm Galvanised Mild Steel Post fixed to 100 x 40mm Galv.M.S base plate chemical anchored to concrete as per struc. engineer's specification; 10 x 35mm Galvanised Mild Steel Baluster at max 90mm centres spanning vertically between top and base rail.;10 x 35mm Galvanised Mild Steel Bottom Rail spanning between Posts; 100 x 40mm Galvanised Mild Steel base plate chemical anchored to concrete as per structural engineer's specification; 900mm high; as per drawing number TSA014-HD/2-A-5002 Rev C</p>	m	4
<u>METALWORK</u>			
	<u>Welded screens, gates, etc</u>		
3/1/35	<p>Clearview fencing 3000mm highwith Galvanised and PVC coated tubular "H" profile post, 3400mm high with predrilled holes. Posts to be fixed to 200 x 200 x 10mm thick galvanized mild steel base plate with gussets as per manufacturers specifications;Mesh panels shall consist of horizontal and vertical wires with apertures size of 76.2mm x 12.7mm centers fixed to posts with mini spider fixators bolted through the post using M8 anti-vandal cupsquare bolts, shear-off nuts & flat washers, or equally approved. All fasteners & fixing screws to be stainless steel. Mesh panels to be manufactured with Zincalu wire, or equally approved. Electrical wiring elsewhere measured Colour : Coating colour to be Charcoal Grey; including clearing site, strip footings etc</p>	m	147
3/1/36	<p>Sliding gate 6000 x 2700mm high galvanized mild steel gate with clear view wire mesh "H" profile. Gate finish to match fencing; as per manufacturers specifications and to be approved by Architect.</p>	No	1
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>SOIL DRAINAGE</u>			
Carried Forward			R
<p>Section No. 3 External Works Bill No. 1 External Works</p>			

Brought Forward			R
<u>Class 34 uPVC pipes</u>			
3/1/37	110mm pipes vertically or ramped to cleaning eyes, etc	m	5
3/1/38	160mm pipes vertically or ramped to cleaning eyes, etc	m	8
3/1/39	100mm pipes including cutting, jointing, excavation, backfill, laying in trenches etc where necessary	m	40
3/1/40	110mm pipes including cutting, jointing, excavation, backfill, laying in trenches etc where necessary	m	106
3/1/41	160mm pipes including cutting, jointing, excavation, backfill, laying in trenches etc where necessary	m	60
<u>Extra over uPVC pipes for fittings</u>			
3/1/42	110mm End cap	No	1
3/1/43	110mm Bend	No	8
3/1/44	160mm Bend	No	1
3/1/45	160mm Reducing junction	No	2
3/1/46	Rodding eye with cast iron cover and 400 x 400 x 300mm concrete collar	No	4
<u>Sewer manhole including excavation, backfill, risk of collapse, laying in trenches, concrete base, brickwork, frame and cover, piping etc where necessary</u>			
3/1/47	Manhole 1000mm diameter and approximately 1800mm deep FC ring type manhole, all as per engineer specification on drawing 1904501/C/S001	No	5
<u>PVC Gulleys</u>			
3/1/48	230 x 230mm Gulley not exceeding 1000mm deep including precast concrete surround	No	3
Carried Forward			R
Section No. 3 External Works Bill No. 1 External Works			

Brought Forward				R
<u>Gratings, covers, etc</u>				
3/1/49	230 x 230mm Cast iron dished grating and frame	No	3	
3/1/50	460 x 460mm Heavy duty cast iron manhole cover and frame, each with 20mm diameter holes for ventilation	No	3	
3/1/51	Type 2A manhole cover and frame	No	5	
<u>Sundries</u>				
3/1/52	Testing soil drainage system.		Item	
3/1/53	Connecting to existing soil drainage system		Item	
<u>STORMWATER DRAINAGE</u>				
<u>Class 12 uPVC pipes including cutting, jointing, excavation, backfill, laying in trenches etc where necessary</u>				
3/1/54	110mm Pipes laid in trenches	m	5	
3/1/55	160mm Pipes laid in trenches	m	2	
<u>Class 100D concrete pipes</u>				
3/1/56	450mm Pipes laid in trenches	m	34	
3/1/57	600mm Pipes laid in trenches	m	40	
<u>Stormwater manhole including excavation, backfill, risk of collapse, laying in trenches, 25MPa reinforced concrete base, brickwork, plaster, stormwater grating and frame, 160mm diameter stormwater piping, 125mm class 25MPa/19mm reinforced concrete cover slab, 150 x 150mm cast iron square dish grating</u>				
3/1/58	Manhole 1540 x 1540mm and less than 2000mm depth, as per engineer detail on Drawing 1904501/C/SW002	No	3	
3/1/59	Type 2B manhole cover and frame	No	3	
Carried Forward				R
Section No. 3 External Works Bill No. 1 External Works				

Brought Forward			R
<u>Sundries</u>			
3/1/60	Stormwater double catchpits/kerb inlet including excavations, backfill, concrete, gratings and covers etc as per engineer drawing 1904501/C/SW002	No	4
3/1/61	Stormwater field inlet including excavations, backfill, concrete, gratings and covers etc, as per engineer drawing 1904501/C/SW002	No	1
3/1/62	Stormwater outlet including excavations, backfill, concrete, including 150 x 150 x 150mm concrete blocks set into insitu concrete invert slab, 900mm wide stormwater v-channels, gratings and covers etc	No	1
3/1/63	Testing stormwater drainage system.		Item
3/1/64	Allow to close off existing inlet		Item
3/1/65	Connecting to existing stormwater system		Item
<u>Precast concrete channels</u>			
3/1/66	1500 x 500mm Deep channels with sides at a 1:1 gradient, with 1423 x 500mm deep berm constructed with excavated and compacted material from channel, including the necessary excavation, cart away, backfill etc	m	158
<u>Gabions</u>			
3/1/67	2500mm wide stormwater channel constructed of a gabion structure U-shaped with a slope gradient 1:1, comprising 3000 x 1000 x 500mm gabions, including the necessary excavation, cart away, geotextile, baskets, etc	m	13
3/1/68	Gabion mattress 4500 x 3010mm and approximately 300mm deep, including all the necessary excavations, cart away, geotextile, etc, all as per engineer drawing 1904501/C/SW002	No	1
3/1/69	Gabion cage 3000 x 1000mm and approximately 1000mm deep, including all the necessary excavations, cart away, geotextile, baskets, etc, all as per engineer drawing 1904501/C/SW002	No	2
Carried Forward			R
Section No. 3 External Works Bill No. 1 External Works			

Brought Forward			R
<u>WATER SUPPLIES (DOMESTIC WATER PIPE)</u>			
<u>Class 9 uPVC pipes including cutting, jointing, excavation, backfill, laying in trenches etc where necessary</u>			
3/1/70	50mm Pipes	m	179
<u>Extra over class 9 uPVC pipes for fittings</u>			
3/1/71	50 x 50 x 40mm Reducing tee	No	2
3/1/72	50mm End cap	No	1
3/1/73	50mm Bend	No	1
3/1/74	50mm Junction	No	1
3/1/75	50mm resilient seal valve	No	1
<u>Galvanised steel pipes</u>			
3/1/76	50mm Pipes	m	40
<u>Sundries</u>			
3/1/77	Testing water pipe system.		Item
3/1/78	Connecting to existing water supply		Item
<u>Tanks etc</u>			
3/1/79	5000 Litre PVC water tank complete with lid and tap on tank stand (elsewhere measured), including fixing on and securing, as per engineer's detail	No	2
<u>WATER SUPPLIES (FIRE LINE)</u>			
<u>Class 12 uPVC pipes including cutting, jointing, excavation, backfill, laying in trenches etc where necessary (fire line)</u>			
3/1/80	110mm Pipes	m	95
<u>Extra over class 12 uPVC pipes for fittings</u>			
3/1/81	110mm End cap	No	1
Carried Forward			R
Section No. 3 External Works Bill No. 1 External Works			

Brought Forward				R
3/1/82	110mm Bend	No	1	
3/1/83	110mm Junction	No	3	
3/1/84	110 x 110 x 90mm Reducing tee	No	2	
3/1/85	110mm inlet Pipes	m	15	
<u>Sundries</u>				
3/1/86	Testing water pipe system.		Item	
3/1/87	Connecting to existing water supply		Item	
<u>FIRE APPLIANCES, ETC.</u>				
3/1/88	AVK (or similar approved) external single outlet fire hydrant	No	1	
<u>Fire hydrant pedestals</u>				
3/1/89	Unreinforced concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavation, formwork and two coats of paint to exposed surfaces, to be painted golden yellow	No	1	
<u>RETAINING WALL & WATER TANK BASE</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
3/1/90	Trenches	m3	28	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
3/1/91	Soft rock	m3	1	
3/1/92	Hard rock	m3	3	
<u>Extra over all excavations for carting away</u>				
3/1/93	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	23	
Carried Forward				R
Section No. 3 External Works Bill No. 1 External Works				

Brought Forward			R
	<u>Risk of collapse of excavations</u>		
3/1/94	Sides of trench and hole excavations not exceeding 1,5m deep	m2	64
	<u>Keeping excavations free of water</u>		
3/1/95	Keeping excavations free of all 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>		
3/1/96	Backfilling to trenches, holes, etc.	m3	6
	<u>G5 material to a depth of 150mm compacted to 95% Mod AASHTO density</u>		
3/1/97	Under floors, steps, paving, etc	m3	13
	<u>10MPa/19mm unreinforced concrete cast against excavated surfaces</u>		
3/1/98	Surface blinding under footings and bases	m3	3
	<u>25MPa/30mm reinforced concrete</u>		
3/1/99	Bases	m3	16
3/1/100	Retaining walls	m3	28
3/1/101	Strip footings	m3	3
3/1/102	Surface beds on waterproofing	m3	3
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
3/1/103	Surface beds, slabs, etc	m2	13
	<u>Smooth formwork to sides and soffits (degree of accuracy II)</u>		
3/1/104	Retaining walls	m2	225
	Carried Forward		R
Section No. 3 External Works Bill No. 1 External Works			

Brought Forward			R
<u>Mild and High tensile steel reinforcement to structural concrete work</u>			
3/1/105	Various Diameter bars from 8mm to 16mm	t	8.00
<u>Fabric reinforcement</u>			
3/1/106	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	13
<u>Brickwork of NFP clay bricks in class II mortar</u>			
3/1/107	One brick walls	m2	26
<u>Brickwork reinforcement</u>			
3/1/108	150mm Wide reinforcement built in horizontally	m	118
<u>Corobrik FBX Face Bricks pointed With ruled-in horizontal and vertical joints or similar approved</u>			
3/1/109	Extra over ordinary brickwork for face brickwork in pointed with recessed horizontal and vertical joints.	m2	15
<u>Sundries</u>			
3/1/110	50mm diameter weepholes 375mm long including building through concrete walls	No	12
3/1/111	50mm perforated uPVC slotted core drain laid in stone filling	m	40
3/1/112	19mm Stone aggregate size 300 x 300mm in filling around sub-soil drain	m	40
3/1/113	Continuous filament non-woven polyester geotextile filter fabric conforming to SANS 10221 wrapped around 19mm clean crushed granite/stone filling	m2	10
Carried to Final Summary			R
Section No. 3 External Works Bill No. 1 External Works			

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 1</u>			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>BUDGETARY ALLOWANCES</u>			
4/1/1	Provide the sum of R 65, 000. 00 (Sixty Five Thousand Rands) for the Employment of a Community Liason Officer at R 5 000.00 per month (R5, 000.00 for the duration of the project)	Item		65,000.00
4/1/2	Provide the sum of R 480, 000. 00 (Four Hundred and Eighty Thousand Rands) for the Employment of a Clerk of Works for the duration of the project	Item		480,000.00
4/1/3	Provide the sum of R 112, 500. 00 (One Hundred and Twelve Thousand, Five Hundred Rands) for the Employment of a Health and Safety Agent	Item		112,500.00
4/1/4	Provide the sum of R 130, 000. 00 (One Hundred and Thirty Thousand Rands) for In-Service Training of Two Students within the Built Environment at R 5 000.00 per month (2 students x R 5,000.00 for the duration of the project)	Item		130,000.00
4/1/5	Provide the sum of R 299, 000. 00 (Two Hundred and Ninety Nine Thousand Rands) for Placing of Two Unemployed Graduates within the Built Environment at R 11, 500.00 per month (2 students x R 11,500.00 for the duration of the project)	Item		299,000.00
4/1/6	Provide the sum of R 150, 000. 00 (One Hundred and Fifty Thousand Rand) for the training, transport, accommodation and the payment of wages of EPWP beneficiaries while on training as if they are on site.	Item		150,000.00
4/1/7	Provide the sum of R 15, 600. 00 (Fifteen Thousand, Six Hundred Rands) for the attendance of PSC meetings of community members (3 members x R 400.00 per meeting x 1 meeting per month for the duration of the project)	Item		15,600.00
	Carried Forward		R	
	Section No. 4 Budgetary Allowances Bill No. 1 Budgetary Allowances			

Brought Forward			R
4/1/8	Allow 5% Attendance for Budgetary Allowances for R 62 605.00 (Sixty Two Thousand, Six Hundred and Five Rands) for the Contractor	Item	62,605.00
Carried to Final Summary			R
Section No. 4 Budgetary Allowances Bill No. 1 Budgetary Allowances			

Item No	Quantity	Rate	Amount
<p><u>SECTION 5</u></p>			
<p><u>BILL NO 1</u></p>			
<p><u>PROVISIONAL AMOUNTS ETC</u></p>			
<p>For preambles see "Model Preambles for Trades"</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>General</u></p>			
<p>All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned</p>			
<p>Sub contractors will be treated as domestic sub contractors for the purpose of this contract. They shall be selected sub contractors and the main contractor will be afforded the opportunity to reject such sub contractors prior to appointment provided reasonable justification is given</p>			
<p><u>Cash discount</u></p>			
<p>No cash discount. All provisional sums are "NET"</p>			
<p><u>Fuel, power and water for commissioning plant</u></p>			
<p>The cost of water, power and fuel for the commissioning of plant shall be borne by the Selected or Nominated Sub-contractor appointed for the relevant selected or nominated sub-contract works in terms of the conditions under which they have/are contracted for the specialist work involved</p>			
<p><u>Profit</u></p>			
<p>Where stated, the contractor may allow for profit if required</p>			
<p>Carried Forward</p>			
<p>Section No. 5 Provisional Amounts Bill No. 1 Provisional Amounts etc</p>			
		R	

<p style="text-align: center;">Brought Forward</p> <p><u>General attendance upon selected sub-contractors</u></p> <p>The item "Attendance" which follows each provisional sum for selected sub-contractors work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the selected sub-contractors, the following:</p> <ol style="list-style-type: none"> 1. The services as in clause B7 of the Preliminaries 2. Making good in all trades and cleaning down and removal of rubbish on completion <p><u>Contingency sums</u></p> <p>Work for which contingency sums are allowed will be measured and valued in accordance with clause A18 of the Conditions of Contract (NPW1) and deducted in whole or in part if not required</p> <p><u>Preliminaries</u></p> <p>The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Amounts"</p> <p><u>Selected and nominated sub-contracts</u></p> <p>These scheduled allowances are for work to be executed under separate selected and/or nominated sub-contracts by firms of Specialists to be nominated by the Employer</p> <p>All provisional sums cover the supply and installation of material, equipment, plant, etc., including the commissioning thereof, where applicable</p> <p style="text-align: center;">-----</p> <p><u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u></p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 5 Provisional Amounts Bill No. 1 Provisional Amounts etc</p>		R	

Brought Forward			R
<u>HVAC Installation</u>			
5/1/1	Provide the sum of R990 000 (Nine Hundred and Ninety Thousand Rand) for air-conditioning to be installed by a specialist firm	Item	990,000.00
5/1/2	Profit	Item	
5/1/3	Attendance	Item	
<u>Fire rational, equipment, OHS, etc</u>			
5/1/4	Provide the sum of R1 595 000.00 (One Million Five Hundred and Ninety Five Thousand Rand) for fire fighting equipment, etc to be used as directed by the PA and deducted in whole or in part if not required	Item	1,595,000.00
5/1/5	Profit	Item	
5/1/6	Attendance	Item	
<u>Signage</u>			
5/1/7	Provide the sum of R30 000.00 (Thirty Thousand Rand) for signage	Item	30,000.00
5/1/8	Profit	Item	
5/1/9	Attendance	Item	
Carried to Final Summary			R
Section No. 5 Provisional Amounts Bill No. 1 Provisional Amounts etc			

Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 1</u>			
	<u>SMME</u>			
	<u>EMPLOYMENT OF SMME SUB-CONTRACTORS</u>			
	<u>SMME Accredited Training and Development</u>			
6/1/1	Provide the sum of R 100 000.00 (One Hundred Thousand Rand) for Accredited Training for the development of SMME's.	Item		100,000.00
6/1/2	Allow for profit	Item		
6/1/3	Allow for attendance	Item		
	<u>The Following Monetary Provisions For Works To Be Carried Out By SMME Subcontractors</u>			
6/1/4	Provide the sum of R 140,000.00 (One Hundred and Forty Thousand Rand) for alteration work.	Item		140,000.00
6/1/5	Allow for profit	Item		
6/1/6	Allow for attendance	Item		
6/1/7	Provide the sum of R 2 010,000.00 (Two Million Ten Thousand Rand) for the supply and installation of masonry.	Item		2,010,000.00
6/1/8	Allow for profit	Item		
6/1/9	Allow for attendance	Item		
6/1/10	Provide the sum of R 465,000.00 (Four Hundred and Sixty Five Thousand Rand) for the supply and installation of paving and kerbs.	Item		465,000.00
6/1/11	Allow for profit	Item		
6/1/12	Allow for attendance	Item		
	Carried Forward		R	
	Section No. 6 SMME Bill No. 1 SMME			

Brought Forward			R
6/1/13	Provide the sum of R 235,000.00 (Two Hundred and Thirty Five Thousand Rand) for the supply and installation of Plumbing and Drainage.	Item	235,000.00
6/1/14	Allow for profit	Item	
6/1/15	Allow for attendance	Item	
6/1/16	Provide the sum of R 300,000.00 (Three Hundred Thousand Rand) for the supply and installation of Landscaping.	Item	300,000.00
6/1/17	Allow for profit	Item	
6/1/18	Allow for attendance	Item	
6/1/19	Provide the sum of R 5 014,000.00 (Five Million Fourteen Thousand Rand) for the supply and installation of Electrical Work.	Item	5,014,000.00
6/1/20	Allow for profit	Item	
6/1/21	Allow for attendance	Item	
Carried to Final Summary			R
Section No. 6			
SMME			
Bill No. 1			
SMME			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 7</u></p> <p><u>BILL NO 1</u></p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p> <p><u>Occupational Health & Safety</u></p>			
7/1/1	Allow for Occupational Health and Safety	Item		
	Carried to Final Summary			R
	<p>Section No. 7 Occupational Health And Safety Bill No. 1 Health and Safety</p>			

CONSTRUCTION OF NEW FIRE STATION AT MTHATHA AIRPORT
HEALTH AND SAFETY BILL OF QUANTITIES
PART 1

C.01	Preparation of the Contractor's site specific Health and Safety File	item	1		
C.02	Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	item	1		
C.03	Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	item	1		
C.04	Provision of Personal Protective Equipment (PPE)				
	(a) Reflective vests	item	1		
	(b) Hard hats	item	1		
	(c) Protective foot wear	item	1		
	(d) Earplugs	item	1		
	(e) Dust masks	item	1		
	(f) Gloves	item	1		
	g) High visibility overalls to SARTSM Chapter 13 Level 3	item	1		
	(h) Ear Defenders SABS approved	item	1		
C.05	Provision of a full time Construction Health and Safety Officer	item	1		
C.06	Cost of medical certificates and medical surveillance				
	(a) Initial (baseline) medical examinations	item	1		
	(b) Periodic and exit examinations	item	1		
C.07	Induction training	item	1		
C.08	Noise monitoring per item of equipment or plant				
	(a) Establishment of noise zones (plant)	item	1		
	(b) Audiograms (personnel)	item	1		
C.09	Provision of Fire extinguisher	item	1		
	Provision of First Aid Boxes to GSR requirements	item	1		
C.10					
	SUB - TOTAL				

**CONSTRUCTION OF NEW FIRE STATION AT MTHATHA AIRPORT
HEALTH AND SAFETY BILL OF QUANTITIES - COVID 19
PART 2**

	Description	Unit	Qty		
1	Infra-red Hand-Held "No touch" Thermometer	No	1		
2	Covid-19 Awareness workshop by Accredited service provider (Once off)	No	1		
3	Standard Covid-19 Warning signage(s) - Outside Gate, within Site and Site Office	Item	1		
4	Disposal of Contaminated Material	Months	12		
5	Standard hand sanitizing spray bottle unit complete with and including foot operated stand	No	1		
6	5 Liter Alcohol (70%) hand Sanitizing chemical	No	7		
7	Standard hand Soap bottle unit complete with and including foot operated stand	No	1		
8	5 Liter Antibacterial liquid hand soap	No	10		
9	Standard washable Cloth Face Masks - minimum of 2 per employee	No	20		
10	Standard Face shield (only for person doing screening)	No	10		
11	Box (IOONo) of Latex gloves (only for person doing Screening)	No	4		
12	Preparation of Addendum Covid-19 Health and Safety Plan (Including Risk Assessment)	Item	1		
13	Standard Medical Waste Bin	No	1		
14	Pack of 20 Bin Bags for Medical waste	No	1		
	SUB - TOTAL				

Part 1 Sub-Total
Part 2 Sub-Total
TOTAL

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	Preliminaries	51		
2	Building Works	112		
3	External Works	124		
4	Budgetary Allowances	126		
5	Provisional Amounts	129		
6	SMME	131		
7	Occupational Health And Safety	132		
	Allow the sum of R 1 500 000.00 (One Million Five Hundred Thousand Rand) for Contingencies to be expended at the discretion of the Principal Agent	Item		1,500,000.00
	Allow the sum of R 1 500 000.00 (One Million Five Hundred Thousand Rand) for Escalation of prices	Item		1,500,000.00
	NET TOTAL, EXCLUSIVE OF VALUE ADDED TAX		R	
	ADD: Value Added Tax @ 15%		R	
	TOTAL		R	
	Carried to Form of Tender		R	