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<p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES AND GENERAL</u></p>		
<p>The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described.</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement.</p> <p><u>PRINCIPAL BUILDING AGREEMENT</u></p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the</p> <p>General Preambles</p> <p>The tenderer's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p> <p><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></p> <p>Section A : A recital of the headings of the individual clauses in the aforementioned JBCC Principal Building Agreement</p> <p>Section B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries</p> <p>Section C : Any special clauses to meet the particular circumstances of the project</p> <p><u>FULL INTENT AND MEANING OF CLAUSES</u></p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.</p>		
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	<p>Tenderers shall be deemed to have referred to the aforementioned documents for the full intent and meaning of each clause. These clauses are hereinafter referred to by the heading and clause number only. 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. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not applicable"</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>ADJUSTMENT OF PRELIMINARIES</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: An amount which shall not be varied</p>	
	<p>"V" - A value related amount: An Amount which shall be varied in proportion to the contract value with the contract sum</p>	
	<p>"T" - A time related amount: An amount which shall be varied in proportion to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment of contract value in terms of the agreement</p>	
	<p><u>SECTION A : JBCC PRINCIPAL BUILDING AGREEMENT</u></p>	
	<p><u>DEFINITIONS</u></p>	
	<p>Definitions and interpretation Clause 1.0</p>	
	<p>The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]</p>	
	<p>COMMENCEMENT DATE - means the date the site is handed over to the contractor.</p>	
	<p>CONSTRUCTION GUARANTEE - means a guarantee at call obtained by the contractor from an institution apporved by the employer in terms of the employer's construction guarantee form as selected in the schedule.n/a</p>	
	<p>CONSTRUCTION PERIOD - means the period commencing on the commencement date and ending on the date of practical completion.</p>	
	<p>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>	
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	<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 and 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>INTEREST - the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not will be in terms of the legislation of the Republic of South Africa and in particular:</p>	
	<p>(a) in respect of interest owed by the employer, the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply and;</p>	
	<p>(b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.</p>	
	<p>SECURITY - means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expenses or loss.</p>	
	<p><u>OBJECTIVE AND PREPARATION</u></p>	
	<p>Offer, acceptance and performance obligations - Clause 2.0</p>	
	<p>F:..... V:..... T:.....</p>	
	<p>Documents - Clause 3.0</p>	
	<p>3.2.1 A construction guarantee in terms of 14.0, where so elected in this tender.</p>	
	<p>3.7 Add at the end thereof:</p>	
	<p>The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access to at all times.</p>	
	<p>F:..... V:..... T:.....</p>	
	<p>Clause 3.1 is hereby deleted and no payment guarantee will thus be provided by the employer.</p>	
	<p>Clause 3.3 is hereby ammended by deleting the words "..... within seven (7) calendar days of having received a payment guarantee from the employer in terms of 3.1" in the first sentence and substituting with ".... within twenty-one (21) calendar days of written acceptance of the contractor's tender." The second sentence shall remain unchanged.</p>	
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4.3 No clause F:..... V:..... T:..... Design responsibility - Clause 4.0 Employer's agents - Clause 5.0 Delegated authority The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works is delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions:		
1 Contractors site representative - Clause 6.0 Add the following to clause 6.1 Prior to commencing work on site, the contractor shall furnish a comprehensive schedule of proposed personnel to be utilised, including CV's of all key personnel. F:..... V:..... T:.....	Item	
2 Compliance with laws and regulations - Clause 7.0 Occupational Health and Safety Without limiting the generality of the provisions of clause 7.0 of the agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993 in which it is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification. F:..... V:..... T:.....	Item	
3 Works risk - Clause 8.0 F:..... V:..... T:.....	Item	
4 Indemnities - Clause 9.0 F:..... V:..... T:.....	Item	
5 General insurance - Clause 10.0 10.6 Add the following as 10.6 Injury to persons or loss of or damage to properties.		
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<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 prpoerty 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 casue 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> <p>e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land 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, restore, replace and/or repair such property and to execute the works.</p> <p>10.7 Add the follwing as 10.7</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 consitions that might result in catastrophic ground movement evident by sinkhole or do line formation the follwing will apply:</p> <p>10.7.1 Damage to the works</p> <p>The contractor shall, from commencement date of the works until the date of 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>		
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	<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> <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 catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so.</p> <p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole.</p> <p>F:.....V:.....T:.....</p>	
6	Special insurances - Clause 11.0	
	F:..... V:..... T:.....	
7	Effecting insurance - Clause 12.0	
	F:..... V:..... T:.....	
8	Assignment - Clause 13.0	
	F:..... V:..... T:.....	
9	Security - Clause 14.0	
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	<p>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 (exclduing VAT).</p>	
	<p>14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A).</p>	
	<p>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.</p>	
	<p>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 contract data. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected.</p>	
	<p>14.3 Where the security as a cash deposit of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p>	
	<p>14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten percent (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 percent (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 percent (1%) of the contract value (excluding VAT), and refund the balance to the contractor.</p>	
	<p>14.3.4 On 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 percent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date.</p>	
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	<p>14.4.2 The variable construction guarantee shall reduce and expire in terms of the variable construction guarantee form included in the invitation to tender.</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 percent (5%) of the contract sum (excluding VAT) and a five percent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p>	
	<p>14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five percent (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 terms of 31.8A and 34.8B.</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 percent (5%) of the contract sum (excluding VAT) and a payment reduction of five percent (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 percent (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 31.8A.</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 percent (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 31.8B.</p>	
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	<p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor.</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement.</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2 the employer, in his sole discretion, and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten percent (10%) payment reduction of the value certified in the payment certificate (excluding VAT) where after 14.7 shall be applicable.</p> <p>F:..... V:..... T:.....</p> <p><u>EXECUTION</u></p>	
10	<p>Preparation for and execution of the work - Clause 15.0</p> <p>15.1.3 Add 15.1.3 as follows:</p> <p>An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) within twenty-one (21) calendar days of commencement date.</p> <p>15.2.1 Replace clause 15.2.1 with the following: "Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.2 and 15.1.3.</p> <p>F:..... V:..... T:.....</p>	Item
11	<p>Site and access - Clause 16.0</p> <p>F:..... V:..... T:.....</p>	Item
12	<p>Contract instructions - Clause 17.0</p> <p>The following new subclause is hereby added to the clause:</p> <p>17.1.21 "Acceleration"</p> <p>17.1.11 Delete the words " The appointment of nominated and selected subcontractors"</p> <p>F:..... V:..... T:.....</p>	Item
13	<p>Setting out of the works - Clause 18.0</p> <p>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments.</p> <p>F:..... V:..... T:.....</p>	Item
14	<p>Temporary works and plant - Clause 19.0</p> <p>Clause 19.1.1 - Enclosure of the works</p>	
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	Clause 19.1.2 - Office accommodation Clause 19.2 - Advertising rights and notice boards F:..... V:..... T:.....	Item	
15	Nominated sub-contractors - Clause 20.0 Refer to the provisions on general attendance hereinafter 20.1.3 No clause F:..... V:..... T:.....	Item	
16	Selected sub-contractors - Clause 21.0 Employer's direct contractors - Clause 22.0 "22.6 The contractor shall not be entitled to any percentage profit or discount on the value of any work executed by direct contractors but shall nevertheless allow direct contractors and the employer's tenants and employees to have access to the works, allocate reasonable space in the building for the storage of their materials, tools and equipment, all to the satisfaction of the principal agent. The contractor shall also allow the direct contractors, etc to use, free of charge, the ablution facilities and water and power supply on the site and shall not in anyway hinder or prevent the execution of their work. Attendance may be priced againsts the relevant specified items in the bills of quantities." F:..... V:..... T:.....	Item	
17	Contractor's domestic sub-contractors - Clause 23.0 F:..... V:..... T:.....	Item	
	<u>COMPLETION</u>		
18	Practical completion - Clause 24.0 "24.11 Should the contractor, in the opinion of the principal agent not have achieved practical completion of any area of the works, the employer may, notwithstanding the contractor's ongoing responsibilities, take possession of any such area and such possession by the employer shall not be construed as the achievement of practical completion. Should such an instance arise, the principal agent will give notice to the contractor, in writing that the employer is taking immediate possession without practical completion having been achieved in order to mitigate his exposure to any expenses. The contractor's responsibilities and liabilities shall remain in full force and effect until in the principal agent's opinion, practical completion is achieved. Access by the contractor to any such area in possession of the employer, prior to the contractor's achievement of practical completion shall be at the employer's convenience which will not be unreasonably withheld." F:..... V:..... T:.....	Item	
19	Works completion - Clause 25.0 F:..... V:..... T:.....	Item	
20	Final completion - Clause 26.0		
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21	Latent defects liability period - Clause 27.0		
	F:..... V:..... T:.....	Item	
22	Sectional completion - Clause 28.0		
	F:..... V:..... T:.....	Item	
23	Revision of date for practical completion - Clause 29.0		
	Sub clause 29.1.1 is hereby deleted and substituted by the following: "Exceptionally inclement weather which shall only relate to weather with a degree of inclemency which is materially greater than or is materially beyond the average inclemency experienced in past years and/or recorded, in terms of available records or otherwise, at or for the area in which the site is situated, for the period(s) in question. Any revision of date for practical completion which may, in terms of this clause be allowed for exceptionally inclement weather, shall be related only to those periods of exceptionally inclement weather by which the average periods of time, during which exceptionally inclement weather, in terms of available records, or on the evidence of past years, is experienced and/or recorded in the area in which the site is situated, is exceeded. The contractor is therefore to make allowance for normal vagaries of the weather." The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3)		
	F:..... V:..... T:.....	Item	
24	Penalty for late or non completion - Clause 30.0		
	F:..... V:..... T:.....	Item	
	<u>PAYMENT</u>		
25	Interim payment - Clause 31.0		
	The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable Materials and goods stored off site shall not be included in the amount authorised for payment		
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26	Adjustment to the contract value - Clause 32.0		
	Sub clause 32.13 is hereby deleted and substituted by the following: All rates included in this Bill of Quantities shall remain fixed for the duration of the contract and will be free from contract price adjustment provisions.		
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27	Recovery of expense and loss - Clause 33.0 33.2 Add the following clauses 33.2.9 to 33.2.13. 33.2.9 the contractor's failure or neglect to commence with the works on the dates prescribed in the contract. 33.2.10 the contractor's failure or neglect to proceed with the works in terms of the contract. 33.2.11 the contractor's failure or neglect for any reason to complete the works in accordance with the contract. 33.2.12 the contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract. 33.2.13 the contractor's state being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa F:..... V:..... T:.....	Item	
28	Final account and final payment - Clause 34.0 Clause 34.0 is amended by the following: Clause 34.10: The reference in the second line to "seven (7) calendar days" shall be amended to "twenty-one (21) calendar days" Clause 34.11: The words "practical completion" in the third and fourth lines shall be amended to "final completion" Clause 34.13 Replace "seven (7) calendar days" with "thirty (30) calendar days" F:..... V:..... T:.....	Item	
29	Payment to other parties - Clause 35.0 F:..... V:..... T:.....	Item	
	<u>TERMINATION</u>		
30	Termination by Employer - Contractor's default - Clause 36.0 F:..... V:..... T:.....	Item	
31	Termination by Employer - loss or damage - Clause 37.0 37.3.5 Replace "ninety (90)" with "one-hundred and twenty (120)" F:..... V:..... T:.....	Item	
32	Termination by Contractor - Employer's default - Clause 38.0 F:..... V:..... T:.....	Item	
33	Termination - cessation of the works - Clause 39.0		
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	<p>39.3.5 Add the following words at the end thereof: "within one hundred and twenty (120) working days of completion of sub report"</p> <p>F:..... V:..... T:.....</p> <p><u>DISPUTE</u></p> <p>34 Settlement of disputes - Clause 40.0</p> <p>40.7 Add the following to the end thereof:</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> <p><u>CONTRACT AGREEMENT</u></p> <p>35 Post tender provisions - Clause 41.0</p> <p>F:..... V:..... T:.....</p> <p>36 Contractual agreement - Clause 42.0</p> <p>F:..... V:..... T:.....</p> <p><u>SECTION B : ASAQS PRELIMINARIES</u></p> <p>The ASAQS Preliminaries August 2007 edition for the use with the JBCC Principal Building Agreement / JBCC N/S Subcontract Agreement / Minor Works Agreement Code 2101, Edition 5.0 July 2007 is to be incorporated herein. The contractor is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where the standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause.</p> <p><u>B : PROJECT INFORMATION</u></p> <p><u>B 1.0 Works [1.1]</u></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained. Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the</p> <p>General Preambles</p> <p>The tenderer's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>
	Carried To Section Summary	R
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Item		Item	Amount
	F:..... V:..... T:.....	Item	
48	Encroachments - Clause 4.4		
	F:..... V:..... T:.....	Item	
49	Existing premises occupied - Clause 4.5		
	F:..... V:..... T:.....	Item	
50	Services - known - Clause 4.6		
	F:..... V:..... T:.....	Item	
	<u>5.0 MANAGEMENT OF CONTRACT</u>		
51	Management of the works - Clause 5.1		
	F:..... V:..... T:.....	Item	
52	Progress meetings - Clause 5.2		
	F:..... V:..... T:.....	Item	
53	Technical meetings - Clause 5.3		
	F:..... V:..... T:.....	Item	
	<u>6.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS INSTRUCTIONS</u>		
54	Samples of materials - Clause 6.1		
	Clause B4.1 is hereby amended by the addition of the following: The principal agent may reject any materials or colours not corresponding with the approved samples. the approved samples shall be kept on site until completion of the works. Should any materials or items specified prove to be either unavailable, in poor supply or likely to cause delay to the works, the contractor shall notify the principal agent in sufficient time for suitable alternatives to be considered. Any claims for delays resulting from the contractor not conforming with the terms of this clause will not be entertained or allowed.		
	F:..... V:..... T:.....	Item	
55	Workmanship samples - Clause 6.2		
	F:..... V:..... T:.....	Item	
56	Shop drawings - Clause 6.3		
	Clause B4.3 is hereby amended by the addition of the following: General responsibilities The contractor shall provide a person or persons who shall be available immediately upon commencement of the contract, whose responsibility will be:		
	Carried To Section Summary	R	
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Item		Amount
	<p>a) To familiarise himself with all drawings produced by the professional team. This will involve a clear understanding of services and element co-ordination performed by the principal agent, in order taht subcontractors can be properly briefed.</p>	
	<p>b) To provide the professional team with comprehensive lists of shop drawings to be prepared by relevant subcontractors.</p>	
	<p>c) To check all shop drawings for sufficiency prior to submission to the relevant consultant in the professional team. It is expected that such checking will include all co-ordination and pro-active resolution of any conflicting services and elements.</p>	
	<p>It is also noted that resolution of co-ordiantion problems will require attendance at services and element co-ordination meetings, called by the principal agent as and when necessary.</p>	
	<p>Procedures</p>	
	<p>The contractor shall, at his own expense, prepare and submit one reproducible print of shop drawings of all fabricated work, working or setting out drawings, shop details and schedules to the principal agent for approval by the relevant consulant/s and/or the employer as is appropriate and such work shall not be performed by the contractor until such approval has been given. The contractor shall take cognisance of and adhere to the Project Document Numbering System, if any, in use on this contract.</p>	
	<p>The contractor shall present a complete schedule showing the sequence of submission of shop drawings, including submission dates, for all trades and the scheduled dates for approval of all drawings. This schedule shall take into account that the relevant consultant/s and the employer reserve a two weeks check period from the date of the receipt of all shop drawings and/or catalogue data.</p>	
	<p>All submissions shall bear the contractor's dated satmp of approval as evidence that they have been so checked and corrected by the contractor. Any drawings, schedule or catalogue submitted without this stamp will not be considered by the principal agent and will be returned.</p>	
	<p>All submissions shall be on dates as indicated in the above schedule and sufficiently in advance to allow the contractor to meet the fabrication deadlines. No claim for extensions to the contract time will be granted to the contractor by reason of his failure in thsi respect.</p>	
	<p>The contractor shall submit four copies of catalogue and data for approval. The contractor shall check all submissions for conformity with the contract drawings and specifications and correct any errors, omisiions or deviations before their transmission to the principal agent.</p>	
	<p>When the principal agent advises the contractor that shop drawings have been approved, he shall immediately submit to the principal agent the original transparencies of such drawings so that the principal agents' stamp of approval may be appeneded thereto. Thereafter the cdontractor shall furnish to the principal agent four prints of the approved shop drawings, setting out drawings and schedules. The contractor shall also furnish to the works as many prints of the approved shop drawings and schedules as may be required. No work shall be performed from any shop drawings and/or catalogues not stamped with the princiapl agent's approval.</p>	
	<p>Carried To Section Summary</p>	<p>R</p>
	<p>Section No. 1</p>	
	<p>Price List No. 1</p>	
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Item		Amount
	<p>The contractor shall be responsible for ensuring tha all dimensions conform to the dimensions of built work The principal agent's approval of any document or drawing shall not in any way vary his contractual or delictual obligations and liabilities to the employer or any other party, nor does it vary the contractual or delictual obligations and liabilities of the party submitting such document or drawing for approval.</p> <p>If the submissions differ form the requirements of the contract, the contractor shall make specific mention of each difference in his letter of transmission with a request for substitution, together with his reaosns for same, in order that if acceptable, suitable action may be taken by the principal agent. Otherwise the contractor will not be relieved of the responsibility for executing the work in accordance with the requirements of the contract.</p> <p>Corrections of shop drawings by the principal agent shall not change the scope of work. Should any such correction be considered to constitute a change of the scope of work, the contractor shall notify the principal agent in writing within not more than seven calendar days of such change and shall not proceed with the fabrication until so authorised by the principal agent. Claims for change of scope made after performance of the work constituting the claimed change of scope will not be considered.</p> <p>Unless otherwise agreed with the principal agent, shop drawings shall be prepared to show all details of installation, including reticulation, fising, etc. of all components and assemblies, or if the contractor desires to deviate from the design and these drawings shall be in accordance with the above procedures and at the contractor's expense.</p> <p>F:..... V:..... T:.....</p>	
57	<p>Compliance with manufacturers' instructions - Clause 6.4</p> <p>F:..... V:..... T:.....</p>	Item
	<u>7.0 DEPOSITS AND FEES</u>	
58	<p>Deposits and fees - Clause 7.1</p> <p>F:..... V:..... T:.....</p>	Item
	<u>8.0 TEMPORARY SERVICES</u>	
59	<p>Water - Clause 8.1</p> <p>F:..... V:..... T:.....</p>	Item
60	<p>Electricity - Clause 8.2</p> <p>F:..... V:..... T:.....</p>	Item
61	<p>Communication facilities - Clause 8.3</p> <p>F:..... V:..... T:.....</p>	Item
62	<p>Ablution and welfare facilities - Clause 8.4</p> <p>F:..... V:..... T:.....</p>	Item
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Item			Amount
	<u>9.0 PRIME COST AMOUNTS</u>		
63	Responsibility for prime cost amounts - Clause 9.1 F:..... V:..... T:.....	Item	
	<u>10.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
64	General attendance - Clause 10.1 F:..... V:..... T:.....	Item	
65	Special attendance - Clause 10.2 F:..... V:..... T:.....	Item	
	<u>11.0 GENERAL</u>		
66	Protection of the works - Clause 11.1 F:..... V:..... T:.....	Item	
67	Protection/isolation of existing/sectionally occupied works - Clause 11.2 F:..... V:..... T:.....	Item	
68	Security of the works - Clause 11.3 F:..... V:..... T:.....	Item	
69	Notice before covering work - Clause 11.4 F:..... V:..... T:.....	Item	
70	Disturbance - Clause 11.5 F:..... V:..... T:.....	Item	
71	Environmental disturbance - Clause 11.6 F:..... V:..... T:.....	Item	
72	Works cleaning and clearing - Clause 11.7 F:..... V:..... T:.....	Item	
73	Vermin - Clause 11.8 F:..... V:..... T:.....	Item	
74	Overhand work - Clause 11.9 F:..... V:..... T:.....	Item	
75	Tenant installations - Clause 11.10 F:..... V:..... T:.....	Item	
76	Advertising - Clause 11.11		
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Item		Item	Amount
F:..... V:..... T:.....			
10.0 SCHEDULE OF VARIABLES			
Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract.			
Clause (and reference)			
10.1 Provisional bills of quantities (Clause 2.2)			
The quantities are provisional:			
	Yes		
10.2 Availability of construction documentation (Clause 2.3)			
Construction documentation is complete:			
	No		
10.3 Previous work - dimensional accuracy (Clause 3.1)			
	No specific		
requirements			
10.4 Previous work - defects (Clause 3.2)			
	No specific		
requirements			
10.5 Inspection of adjoining properties (Clause 3.3)			
The roads, kerbs and services (man holes, etc) need to be inspected before commencement of the works (refer clause 10.11 below) and need to be fully protected for the duration of the project.			
10.6 Water (Clause 6.1)			
Option A (By Contractor):			
	Yes		
Option B (By employer - free of charge):			
	No		
Option C (By employer - metered):			
	No		
10.7 Electricity (Clause 6.2)			
Option A (By Contractor)			
	Yes		
Option B (By employer - free of charge)			
	No		
Option C (By employer - metered)			
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Item		Amount
	<p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p><u>SUPPLEMENTARY DOCUMENTATION</u></p> <p><u>Site instructions</u></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained. Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.</p> <p>The tenderer's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.</p> <p><u>HIV/AIDS AWARENESS</u></p> <p>It is required of the Contractor to thoroughly study the HIV/AIDS Specification (C3.5) 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 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. The Contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the Principal Agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clauses to the contrary, reserve 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> <p><u>AWARENESS CHAMPION</u></p> <p>77 Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification.</p> <p>F:..... V:..... T:.....</p> <p><u>AWARENESS WORKSHOPS</u></p> <p>78 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.</p> <p>F:..... V:..... T:.....</p> <p>Carried To Section Summary</p> <p>Section No. 1 Price List No. 1 Preliminaries</p>	
	Item	
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Item		Amount
	<u>POSTERS, BOOKLETS, VIDEOS, ETC.</u>	
79	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item
	<u>ACCESS TO CONDOMS</u>	
80	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item
	<u>MONITORING</u>	
81	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item
	<u>LOCAL LABOUR</u>	
82	Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representatives. It is a prerequisite and condition that the successful contractor continuously employ a minimum of 50% of their on-site workforce (excluding specialis subcontractors e.g electrical installation workforce, etc) in respect of unskilled labour requirements, from local residents living in the immediate vicinity and/or the surrounding local communities for the respective building works at normal wage rates. The representative/Agent shall be empowered to inspect the books and records of the contractor from time to time to ensure that the requirements are met. Should it become apparent that these conditions are not being complied with the representative/Agent shall close down the works until the requirements are met. Any work stoppages so occasioned will be for the contractor's account. Any difficulty experienced by the contractor in the procurement of the required percentages of local labour is to be immediately referred to the representative /Agent	Item
	<u>LOCAL RECORD</u>	
83	Allow for the provision of weekly reports to in a schedule form of all tradesmen and labour employed on the site (contractor's own staff and subcontractor's staff)	Item
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SECTION NO. 1
PRELIMINARIES AND GENERAL
SECTION SUMMARY

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<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 1</u>																										
<u>ALTERATIONS</u>																										
<table><tr><td><u>Key:</u></td><td><u>Location Description:</u></td></tr><tr><td>MR</td><td>Mess Room</td></tr><tr><td>SB</td><td>Station Building</td></tr><tr><td>TO</td><td>Ticket Office</td></tr><tr><td>TV</td><td>Ticket Verification</td></tr><tr><td>T2</td><td>Toilet 2</td></tr><tr><td>WA3A</td><td>Waiting Area 3/ Ablu</td></tr><tr><td>RA</td><td>Refuse Area</td></tr><tr><td>WAPA</td><td>Waiting Area/ Proces</td></tr><tr><td>WR1</td><td>Waiting Room 1</td></tr><tr><td>I</td><td>Item Location</td></tr></table>					<u>Key:</u>	<u>Location Description:</u>	MR	Mess Room	SB	Station Building	TO	Ticket Office	TV	Ticket Verification	T2	Toilet 2	WA3A	Waiting Area 3/ Ablu	RA	Refuse Area	WAPA	Waiting Area/ Proces	WR1	Waiting Room 1	I	Item Location
<u>Key:</u>	<u>Location Description:</u>																									
MR	Mess Room																									
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RA	Refuse Area																									
WAPA	Waiting Area/ Proces																									
WR1	Waiting Room 1																									
I	Item Location																									
NOTE: Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.																										
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent.																										
<u>Demolishing and removing all existing structures including roofs, patios, balconies, access steps, superstructure (brickwork and concrete), brick constructed planter boxes next to the building, concrete & mass brickwork pergolas between buildings, foundations (grubbing up footings, etc), surface beds, all below ground drainage and water systems, etc complete including blocking off water supply, sewage, stormwater, etc, including disconnecting all electrical supply and making safe to leave the site completely level and clear to prevent soil washing away by stormwater, ready for the new building works</u>																										
1	Rectangular shaped single storey building approximate on-plan size of 15m² - Waiting Area 2	Item																								
I	1																									
2	Rectangular shaped single storey building approximate on-plan size of 15m² - Waiting Area 4	Item																								
I	1																									
3	Rectangular shaped single storey building approximate on-plan size of 50m² - Waiting Area 5	Item																								
I	1																									
Carried to Collection			R																							
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Item	Unit	Quantity	Rate	Amount
4 Rectangular shaped single storey building approximate on-plan size of 25m ² - Toilet 1 I 1 <u>REMOVAL OF ASBESTOS</u> <u>Asbestos removal and disposal</u> Asbestos removal and disposal must be done by an registered Asbestos Contractor with the Department of Labour The removal and disposal of asbestos must be done strictly in accordance with the Occupational Health and Safety Act No. 85 of 1993, Asbestos Abatement Regulations of 2020, Construction Regulations 2014. Erect a safety net to stop spillage from falling onto the ground when cleaning the roof sheets. Prices for taking out and removing asbestos shall include for safe removal of asbestos products contaminated debris and the safe transporting and dumping of asbestos material to an approved dumping site including any statutory charges therein.	Item			
5 Slate roof tiles and battens including accessories, e.g. ridges, hips, gables, apex flashing, headwall and sidewall flashings, corner trims etc MR 45 SB 43 TO 120 WAPA 43 <u>REMOVAL OF EXISTING WORK</u> <u>Breaking up and removing reinforced concrete, including cutting off and removing reinforcement:</u>	m ²	251		
6 Stairs and landings TO 4 <u>Breaking down and removing brickwork etc</u>	m ³	4		
7 Half brick walls MR 9 TO 11	m ²	20		
8 One brick walls MR 6 <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>	m ²	6		
9 Tongued and grooved, plasterboard or fibre cement ceilings, including insulation, timber bandering and cornices MR 148 SB 141 TO 99 TV 28 T2 26 WA3A 34 WAPA 143 WR1 58	m ²	677		
Carried to Collection				R
Section No. 2 Price List No. 1 Alterations				

Item	Unit	Quantity	Rate	Amount
<u>Taking out and removing doors, windows, etc from brickwork to be demolished</u>				
10	No	1		
Timber or steel single or double door or roller shutter door including frames not exceeding 2,5m ²				
TO 1				
<u>Taking out and removing doors, windows, etc. including thresholds, cills, etc:</u>				
11	No	39		
Timber single door and frame not exceeding 2,5m ²				
MR 12 SB 12 TO 5				
T2 2 WA3A 7 WAPA 1				
12	No	1		
Timber double door 2,5m ² and not exceeding 5m ²				
TV 1				
13	No	6		
Galvanised mild steel security gates size 1 500 x 2 100mm high				
WAPA 6				
<u>Taking out and removing doors, windows, etc. including thresholds, sills, etc from brickwork (building up openings and making good finishes elsewhere)</u>				
14	No	7		
Glazed timber, steel or aluminium window not exceeding 2,5m ²				
MR 5 SB 1 TO 1				
<u>Taking out doors, windows, etc. including thresholds, sills, etc. setting aside for re-use and later refixing in equal and new position (rate should include for refixing) (building up openings and making good finishes elsewhere)</u>				
15	No	2		
Timber or steel single or double door or roller shutter door including frames not exceeding 2,5m ²				
SB 2				
16	No	2		
Glazed timber, steel or aluminium window not exceeding 2,5m ² , including setting up and building in new or existing brickwork. (forming opening in existing brick wall, making good finishes, ironmongery, glazing and paintwork elsewhere measured)				
SB 2				
<u>Taking out and removing sundry joinery work, fittings, etc and make good cement plaster where necessary</u>				
17	m	4		
Granite counter 605 x 300mm thick				
MR 4				
Carried to Collection			R	
Section No. 2				
Price List No. 1				
Alterations				

Item		Unit	Quantity	Rate	Amount
	<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor coverings</u>				
18	Vinyl tile floor covering	m ²	19		
	MR 3 SB 16				
19	Carpet floor covering including felt underlay glued on	m ²	56		
	SB 40 TO 16				
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>				
20	Tiles and tile adhesive to floors and prepare for new	m ²	283		
	MR 92 SB 40 TO 33				
	T2 23 WA3A 21 WAPA 74				
	<u>Taking out/off and removing sundry metalwork</u>				
21	Ticket verification barriers including making good granolithic/ floor finish	No	8		
	SB 3 TO 3 TV 2				
	<u>SANITARY FITTINGS</u>				
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
22	Stainless steel preparation bowl, single or double bowl sinks or wash troughs including taps, waste and trap	No	1		
	MR 1				
23	Vitreous china wash hand basin, taps, waste and trap	No	9		
	MR 4 TO 1 T2 2				
	WA3A 2				
24	Vitreous china WC pan with cistern or flush valve and flush pipe	No	15		
	MR 6 TO 2 T2 4				
	WA3A 3				
25	Vitreous china wall hung urinal with flush valve or cistern, flush pipe, waste and trap	No	6		
	MR 2 T2 2 WA3A 2				
	<u>MAKING GOOD OF FINISHES, ETC. ALL TO MATCH EXISTING</u>				
26	Making good walls, floors, plaster, and ceilings where brick walls removed	m	106		
	MR 52 SB 17 TO 12				
	TV 9 WR1 16				
	Carried to Collection				
	Section No. 2			R	
	Price List No. 1				
	Alterations				

Item		Unit	Quantity	Rate	Amount
	<u>FLOOR COVERINGS, WALL LININGS, ETC</u>				
	Preparatory work to surfaces of existing floors all in accordance with the manufacturer's specifications				
	<u>Making good defect in existing screeded floor with "Floorworx Pavelite" or equal approved system after existing surface has been primed with "Floorworx Pavelite Bond" all as per the manufacturers instructions to receive new carpet or vinyl tiling or sheeting (carpets, vinyl tiles or sheeting elsewhere)</u>				
27	On floors (2,5mm) MR 15 WA3A 14 RA 7 WR1 51	m ²	87		
	<u>OPENINGS THROUGH EXISTING WALLS, ETC.</u>				
	<u>BUILDING UP OR ADJUSTING EXISTING OPENINGS OR FORMING NEW OPENINGS THROUGH EXISTING WALLS ETC</u>				
	<u>Breaking down and removing brickwork etc to form new opening or adjust exiting opening</u>				
28	Half brick walls SB 2	m ²	2		
29	One brick walls MR 4 SB 4 TO 11	m ²	19		
30	280mm Hollow walls of two half brick skins WR1 4	m ²	4		
	<u>BUILDING UP OPENINGS</u>				
	<u>Brickwork in NFP bricks in class II mortar in building up openings or adjusting opening size</u>				
31	Half brick walls SB 2	m ²	2		
32	One brick walls MR 6 SB 1 TV 5	m ²	12		
33	280mm Hollow walls of two half brick skins SB 4	m ²	4		
	<u>Sundries</u>				
34	Cutting toothing and bonding new brickwork to existing MR 4 SB 5	m ²	9		
	<u>2,5mm Galvanised brick reinforcement</u>				
35	150mm Wide reinforcement built in horizontally MR 17 SB 46	m	63		
	Carried to Collection			R	
	Section No. 2				
	Price List No. 1				
	Alterations				

Item		Unit	Quantity	Rate	Amount
	<u>Attend to, service, re-align and repair as necessary all steel cage including replacing any defective or missing parts</u>				
41	Cage size 1 500 x 1 200mm high overall WAPA 27	No	27		
	<u>REPAIRING PLASTERED WALLS</u>				
	<u>Cement plaster on cavity walls</u>				
42	Cracks (more than 10mm thick) by cleaning surface and removing defective filler, clean and rake out plaster crack, apply "Polycell Mendal 90" and leaving ready for wall finishes TO 30	m ²	30		
	<u>SERVICING AND REPAIRS TO EXISTING ROOFS</u>				
	<u>Service and make good existing roof covering and accessories, inspect, service, replace broken tiles or sheeting in isolated areas with matching new, fix all loose screws and replace all missing screws, etc. all to match existing, and leave roof watertight and in fully functional state (new tiles and sheeting elsewhere)</u>				
43	Natural slates in roof covering I 40	m ²	40		
Carried to Collection				R	
Section No. 2					
Price List No. 1					
Alterations					

PRICE LIST NO. 1
ALTERATIONS
COLLECTION

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Amount

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Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 3</u>																										
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>																										
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<u>UNREINFORCED CONCRETE</u>																										
<u>15MPa/19mm Concrete</u>																										
1	Surface blinding under bases	m ³	1																							
TO 1																										
<u>REINFORCED CONCRETE</u>																										
<u>25MPa/19mm concrete</u>																										
2	Ramps	m ³	17																							
TO 17																										
<u>CONCRETE SUNDRIES</u>																										
<u>Test blocks</u>																										
3	Making and testing 150 x 150 x 150mm concrete strength test cube	No	4																							
TO 4																										
<u>Finishing top surfaces of concrete ramp to an evenly ribbed non-slip surface</u>																										
4	Ramps	m ²	10																							
TO 10																										
Carried to Collection			R																							
Section No. 2																										
Price List No. 3																										
Concrete, Formwork And Reinforcement																										

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Item		Unit	Quantity	Rate	Amount
<u>FORMWORK</u>					
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>					
<u>Smooth formwork to sides:</u>					
5	Inner or outer face of raking ramp TO 16	m ²	16		
<u>Curing surfaces of concrete with an approved curing compound applied as per manufacturer's instructions:</u>					
6	Horizontal top surfaces TO 10	m ²	10		
<u>REINFORCEMENT (PROVISIONAL)</u>					
<u>High tensile & mild steel reinforcement to structural concrete work</u>					
7	Reinforcing bars in varying diameters TO 2550	Kg	2 550		
8	Type 395 fabric reinforcement in concrete walls	m ²			RATE ONLY
Carried to Collection				R	
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Price List No. 3					
Concrete, Formwork And Reinforcement					

PRICE LIST NO. 3
CONCRETE, FORMWORK AND REINFORCEMENT
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Section No. 2
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Concrete, Formwork And Reinforcement

Item	Unit	Quantity	Rate	Amount																						
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<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 4</u>																										
<u>MASONRY</u>																										
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<u>BRICKWORK</u>																										
<u>SUPERSTRUCTURE</u>																										
<u>Brickwork of NFP bricks in class II mortar</u>																										
1	110mm Brick walls	m²	78																							
	MR 34 TO 20 WAPA 16 WR1 8																									
2	230mm Brick walls	m²	22																							
	MR 16 TO 6																									
3	280mm Hollow walls of two half brick skins including wire ties	m²	6																							
	TO 6																									
<u>BRICKWORK SUNDRIES</u>																										
<u>Joint forming material in movement joints</u>																										
4	10mm Expanded polystyrene (density 33kg per m3) not exceeding 300mm wide with one tear-off strip, built in vertically through brick walls	m	18																							
	MR 3 SB 4 TO 4 TV 4 WR1 3																									
Carried to Collection			R																							
Section No. 2																										
Price List No. 4																										
Masonry																										

2-12

Item		Unit	Quantity	Rate	Amount
<u>1,2mm Galvanised brick reinforcement</u>					
5	30mm Wide steel strap built in horizontally	m	83		
	MR 14 SB 21 TO 18				
	TV 13 WR1 17				
<u>DECORATIVE BRICKWORK</u>					
Bricks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour					
6	280mm decorative brick walls	m ²	9.00		
	TO 9				
Carried to Collection				R	
Section No. 2					
Price List No. 4					
Masonry					

PRICE LIST NO. 4
MASONRY
COLLECTION

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Section No. 2
Price List No. 4
Masonry

Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 5</u>																										
<u>WATERPROOFING</u>																										
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<u>WATERSTOPS, SEALING STRIPS, JOINT SEALANTS, ETC</u>																										
<u>"Dow Corning 813C" silicone sealing compound or equally approved, including backing cord, bond breaker, primer, etc.</u>																										
1	10 x 10mm In expansion joints in walls etc including raking out expansion joint filler as necessary	m	24																							
	MR 5 SB 8 TO 3																									
	TV 2 WR1 6																									
Carried To Section Summary				R																						
Section No. 2																										
Price List No. 5																										
Waterproofing																										

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Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDERS WORK</u>				
<u>PRICE LIST NO. 6</u>				
<u>ROOF COVERINGS</u>				
<u>Key:</u>				
<u>Location Description:</u>				
MR	Mess Room			
SB	Station Building			
TO	Ticket Office			
TV	Ticket Verification			
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<u>FIBRE CEMENT SLATES</u>				
1	610 x 406mm "Nutech" or equal and approved roof slates laid in single thickness on lapped underlay and slates top nailed through underlay with copper nails to 38 x 50mm sawn softwood battens (measured elsewhere) all laid in accordance with manufacturer's instructions:	m²	251	
	MR 45 SB 43 TO 120 WAPA 43			
2	Ridge slates	m	19	
	TO 19			
3	Barge cappings	m	20	
	TO 20			
4	Ridge end cap	No	2	
	TO 2			
Carried To Section Summary			R	
Section No. 2				
Price List No. 6				
Roof Coverings				

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Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 7</u>																										
<u>CARPENTRY AND JOINERY</u>																										
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<u>NEW WORK</u>																										
<u>ROOFS CONSTRUCTION, ETC</u>																										
<u>Plate nailed timber roof truss construction</u>																										
1	Additional roof construction to the Ticket Office, area approximately 120m2 on plan to double pitched roof with pitch , with trusses to span approximately 8m between brick walls with overhang at overhang at ends, Including hips, jack rafters, necessary bracing, connections and built into brick walls																									
	No	1																								
	TO 1																									
	<u>Sawn softwood grade S5</u>																									
2	38 x 50mm Battens																									
	m	380																								
	TO 380																									
3	38 x 114mm Plate																									
	m	38																								
	TO 38																									
Carried to Collection			R																							
Section No. 2																										
Price List No. 7																										
Carpentry And Joinery																										
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Item		Unit	Quantity	Rate	Amount
	<u>DOORS, ETC</u>				
	<u>Solid core flush door panel with commercial veneer, hung to steel frames</u>				
4	40mm Door size 813 x 2,032mm high (SD-03), (SD-08) MR 12 SB 2 TO 2 T2 4 WA3A 3 RA 2 WAPA 1	No	26		
5	40mm Door size 1346 x 2148mm high (SD-05) TO 1	No	1		
	<u>Solid core flush door panel with 3,2mm plain hardboard concealed edges and veneer covering on both sides, hung to steel frames</u>				
6	40mm Door 813 x 2,032mm high (SD-02) SB 8 TO 4	No	12		
7	40mm Double door 1730 x 1997mm high (SD-07) TV 1	No	1		
	<u>"Custom made bottom" folding door including sliding gear, ironmongery, etc</u>				
8	5530 x 2600mm folding doors including frames, sliding gear, ironmongery (7 leaves) - Type FD-01 MR 1	No	1		
	<u>EXTERNAL ANTI-BANDIT DOOR</u>				
	<u>"Mutual Safes" or other equally approved Level G3 bullet resistant Anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm MS angle rebates, overall size 930 x 2100mm high in powder coating and or galvanised cladding with peep hole, supplied with a 6 pin tumbler key system, mortice dead lock with an additional heavy duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, heavy duty aluminium continuous hinge, aluminium slam bar with heavy duty door closer and D-style pull handles. Door to comply to SABS 1658-1996</u>				
9	930 x 2100mm high hung to steel frame (SD-01) MR 4 SB 4 TO 1 T2 2 WA3A 4 WAPA 1 WR1 1	No	17		
Carried to Collection					
Section No. 2					
Price List No. 7					
Carpentry And Joinery					
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Item		Unit	Quantity	Rate	Amount
	<u>JOINERY FITTINGS, ETC.</u>				
	The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The description, therefore, of such units shall be deemed to include for all components, assembling, housing, glueing, blocking, bolting, planting on and screwing with countersunk screws, edge strips, glass, ironmongery to be approved by Architect, metalwork, paint or varnish finishes, etc.				
	Prices are to include for all necessary filler pieces against walls etc				
	<u>COUNTERTOPS</u>				
	<u>Granite with all exposed edges large bevel edged, fixed to supports using dabs of 100% black silicone adhesive along all supports with all joints filled with matching polyester resin glue. Granite surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations</u>				
10	30mm thick Rustenburg granite tops, 385mm wide TO 6	m	6		
11	30mm thick Rustenburg granite tops, 520mm wide, fitted to cupboard with cut-out for sink MR 4 SB 4 TO 2	m	10		
12	30mm thick Rustenburg granite tops, 600mm wide TO 3	m	3		
13	Forming opening in 30mm granite top to receive drop in sink MR 4 SB 2 TO 1	No	7		
	<u>Pigeon hole shelving</u>				
14	Pigeon hole size 750 x 300 x 250mm high in three vertical divisions and two tiers high MR 2	No	2		
Carried to Collection				R	
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PRICE LIST NO. 7
CARPENTRY AND JOINERY
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Section No. 2
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Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 8</u>																										
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>																										
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<u>NAILED UP CEILING</u>																										
<u>SUPPLEMENTARY PREAMBLES</u>																										
<u>Openings</u>																										
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc																										
<u>9.5mm Gypsum plasterboard on "Donn QRC T37K" or equal and approved suspension grid including hangers etc, with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</u>																										
1	Ceilings suspended not exceeding 1m below timber purlins at 1200mm centres (trusses at 1500mm centres)	m²	677																							
<table><tr><td>MR</td><td>148</td><td>SB</td><td>141</td><td>TO</td><td>99</td></tr><tr><td>TV</td><td>28</td><td>T2</td><td>26</td><td>WA3A</td><td>34</td></tr><tr><td>WAPA</td><td>143</td><td>WR1</td><td>58</td><td></td><td></td></tr></table>					MR	148	SB	141	TO	99	TV	28	T2	26	WA3A	34	WAPA	143	WR1	58						
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Ceilings Partitions And Access Flooring																										
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Item		Unit	Quantity	Rate	Amount
2	Extra over ceiling for 610 x 610mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	11		
	MR 2 SB 2 TO 1				
	TV 1 T2 1 WA3A 1				
	WAPA 2 WR1 1				
	<u>Gypsum plasterboard cornices</u>				
3	70mm Coved cornices	m	780		
	MR 150 SB 192 TO 135				
	TV 32 T2 55 WA3A 66				
	WAPA 105 WR1 45				
Carried to Collection				R	
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Ceilings Partitions And Access Flooring					

PRICE LIST NO. 8
CEILINGS PARTITIONS AND ACCESS FLOORING
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Section No. 2
Price List No. 8
Ceilings Partitions And Access Flooring

Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 9</u>																										
<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>																										
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<u>FLOOR COVERINGS</u>																										
<u>NEEDLE PUNCH CARPET SHEETING AND TILES</u>																										
<u>500 x 500 x 8,5mm thick, Loose lay "Metro" or similar approved Belogotex structured needlepunch Nexbac Eco™ SABS Class 3 fire rating grade heavy Commercial carpet tiles with Nexbac from Nexus laid loose on screed using tessellated Installation with adhesive as per manufacturer's recommendation</u>																										
1	On floors	m²	61																							
	SB 40 TO 16 WAPA 5																									
Carried to Collection			R																							
Section No. 2																										
Price List No. 9																										
Floor Coverings, Wall Linings, Etc.																										

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Item		Unit	Quantity	Rate	Amount
	<u>VINYL FLOOR COVERINGS</u>				
	<u>300 x 300 x 2mm thick "FloorWorX Floorflex" or equally and approved semiflexible vinyl floor tiles, conforming to SANS 581.300 x 300 x 2,0mm thick semiflexible vinyl floor tiles, manufactured in accordance to SANS 581, laid in approved adhesive, spread with a trowel having 1.5 x 1.5 x 1.5mm triangular notches at 40mm centres fixed to screeded floor</u>				
2	On floors MR 15 SB 16 TO 4 WAPA 17	m ²	52		
3	On floors in patches to match the existing SB 24 TV 7	m ²	31		
	<u>POLISH, SEALERS, ETC.</u>				
	<u>Prepare and apply three coats of a water based floor dressing complying to SANS 1042</u>				
4	On vinyl flooring MR 15 SB 16 TO 4 WAPA 17	m ²	52		
	<u>FLOOR COVERINGS</u>				
	<u>600 x 600 x 16mm rubber mat</u>				
5	On floors SB 14 TO 21	m ²	35		
	<u>Matco Trio Scraper or similar approved Walk-off mat, overall size 4000mm or 3000mm x 12mm consisting of 100% polypropylene course fibre needle felt brushes alternated with soft strips to effectively scrape & dry with anti-slip latex backing (Code: 2402) glued in recess bedded into screed (by others), installed in accordance with the manufacturer's recommendations</u>				
6	On floors TO 2	m ²	2		
	Carried to Collection			R	
	Section No. 2				
	Price List No. 9				
	Floor Coverings, Wall Linings, Etc.				

PRICE LIST NO. 9
FLOOR COVERINGS, WALL LININGS, ETC.
COLLECTION

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Amount

Carried To Section Summary

R

Section No. 2
Price List No. 9
Floor Coverings, Wall Linings, Etc.

Item	Unit	Quantity	Rate	Amount	
<u>SECTION NO. 2</u>					
<u>BUILDERS WORK</u>					
<u>PRICE LIST NO. 10</u>					
<u>IRONMONGERY</u>					
<u>Key:</u>					
MR	Mess Room				
SB	Station Building				
TO	Ticket Office				
TV	Ticket Verification				
T2	Toilet 2				
WA3A	Waiting Area 3/ Ablu				
RA	Refuse Area				
WAPA	Waiting Area/ Proces				
WR1	Waiting Room 1				
I	Item Location				
NOTE:					
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NOTE:					
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<u>HINGES, BOLTS, ETC</u>					
<u>'Union' or equal and approved</u>					
1	No	80			
100 x 180mm "CISA DPS FH180X3B-TR" SS satin butt hinge					
MR	24	SB	20	TO	16
TV	4	T2	8	WA3A	6
WAPA	2				
<u>LOCKSETS, ETC</u>					
<u>Manufactured by "Dormakaba" or other approved</u>					
2	No	38			
Grade 304 Stainless steel Euro profile Mortice sash lock with reversible latch and deadbolt. Fore end to be stainless steel					
MR	12	SB	10	TO	7
TV	1	T2	4	WA3A	3
WAPA	1				
3	No	38			
60mm Grade 304 Stainless steel Euro profile Double Cylinder with 6 pin and Master keyed					
MR	12	SB	10	TO	7
TV	1	T2	4	WA3A	3
WAPA	1				
Carried to Collection				R	
Section No. 2					
Price List No. 10					
Ironmongery					

2-27

Item		Unit	Quantity	Rate	Amount
4	Grade 304 Stainless Steel indicator bolt (code: fixed to surface with matching stainless steel screws. MR 6 SB 2 TO 2 T2 4 WA3A 3	No	17		
	HANDLES				
5	Grade 304 Stainless steel round D lever handle on a long backplate with a Euro profile cylinder opening. Fixing to door to be stainless steel male and female screws MR 24 SB 20 TO 16 TV 4 T2 8 WA3A 6 WAPA 2	No	80		
	BATHROOM FITTINGS				
	"Serra" or other equally approved				
6	Vandal resistant stainless steel double toilet roll holder with central shaft system, plugged and screwed to the wall using stainless steel screws, with satin finished cover and cylinder lock including a standard key. MR 6 SB 2 TO 3 T2 4 WA3A 3	No	18		
7	Stainless steel soap dispenser with a 1 litre refillable container, plugged and screwed to the wall using stainless steel screws, with satin finished cover and cylinder lock including a standard key MR 2 SB 2 TO 3 T2 2 WA3A 2	No	11		
8	Stainless steel paper towel dispenser with a minimum capacity to accommodate 600 folded paper towels, plugged and screwed to the wall using stainless steel screws, with satin finished cover and cylinder lock including a standard key MR 2 SB 2 TO 2 T2 2 WA3A 2	No	10		
9	Stainless steel waste disposal bin with a capacity to accommodate 40 litres of waste including a frame inside the dispenser to hold a liner, plugged and screwed to the wall using stainless steel screws, with satin finished cover MR 3 SB 2 TO 2 T2 2 WA3A 2	No	11		
10	Stainless steel sanitary towel disposal bin with a capacity to accommodate 10 litres, plugged and screwed to the wall using stainless steel screws, with satin finished cover MR 3 SB 2 TO 3 T2 2 WA3A 2	No	12		
	Carried to Collection			R	
	Section No. 2				
	Price List No. 10				
	Ironmongery				

Item	Unit	Quantity	Rate	Amount
<u>BUDGETARY ALLOWANCES</u>				
<u>Works for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required</u>				
11				
Allow the Budgetary Allowance of R 80 000.00 (Eighty Thousand Rand) net for ironmongery, items to be expended at the discretion of the Project Leader	Item			80 000 00
I 1				
Carried to Collection			R	
Section No. 2				
Price List No. 10				
Ironmongery				

PRICE LIST NO. 10
IRONMONGERY
COLLECTION

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Amount

Carried To Section Summary

R

Section No. 2
Price List No. 10
Ironmongery

Item		Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>					
<u>BUILDERS WORK</u>					
<u>PRICE LIST NO. 11</u>					
<u>METALWORK</u>					
<u>Key:</u>		<u>Location Description:</u>			
MR		Mess Room			
SB		Station Building			
TO		Ticket Office			
TV		Ticket Verification			
T2		Toilet 2			
WA3A		Waiting Area 3/ Ablu			
RA		Refuse Area			
WAPA		Waiting Area/ Proces			
WR1		Waiting Room 1			
I		Item Location			
NOTE:					
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<u>HANDRAILS</u>					
<u>GALVANISED STEEL HANDRAILS</u>					
1	50 x 20 x 2,5mm Hollow section continuous rails	m	34		
	TO 34				
2	50 x 10mm Flat section rails	m	17		
	TO 17				
3	20mm Expansion bolt	No	56		
	TO 56				
Carried to Collection				R	
Section No. 2					
Price List No. 11					
Metalwork					

2-31

Item		Unit	Quantity	Rate	Amount
<u>Hot-dip galvanised steel welded handrails to walls</u>					
<u>BALUSTRADING</u>					
<u>Hot-dip galvanised steel welded balustrades</u>					
4	Horizontal balustrade 1100mm high, of 50mm external diameter AISI Type 316 stainless steel x 2.5mm thick continuous pipe top and bottom rails, 60mm diameter AISI Type 316 stainless steel x 2.5mm thick hollow section posts at approximately 1000mm centres with 100 x 100 x 6mm base plates bolted to concrete (bolts elsewhere) and 16mm diameter intermediate vertical balusters at 150mm centres between top and bottom rails	m	38		
	TO 25 TV 13				
5	20mm Expansion bolt	No	112		
	TO 24 TV 88				
<u>STEEL GATES, SCREENS, ETC</u>					
<u>Hot-dip galvanised steel framed and welded gates with mitred intersections, etc</u>					
6	Single gate with biometric access and electronic magnet lock formed of 40 x 40 x 3mm thick hollow section perimeter framing and one middle rail, the top and bottom panels each filled with 16mm diameter round vertical bars at 70mm centres with two 70 x 16mm bullet hinges with 200 x 150mm fixing plate four times holed welded on, size 914 x 2300mm high overall (biometric access and electronic magnet lock elsewhere measured) - G-01	No	1		
	RA 1				
7	Single gate with biometric access and electronic magnet lock formed of 40 x 40 x 3mm thick hollow section perimeter framing and one middle rail, the top and bottom panels each filled with 16mm diameter round vertical bars at 70mm centres with two 70 x 16mm bullet hinges with 200 x 150mm fixing plate four times holed welded on, size 948 x 2300mm high overall (biometric access and electronic magnet lock elsewhere measured) - RSD-05	No	2		
	RA 2				
Carried to Collection				R	
Section No. 2					
Price List No. 11					
Metalwork					

Item		Unit	Quantity	Rate	Amount
8	Single gate with biometric access and electronic magnet lock formed of 40 x 40 x 3mm thick hollow section perimeter framing and one middle rail, the top and bottom panels each filled with 16mm diameter round vertical bars at 70mm centres with two 70 x 16mm bullet hinges with 200 x 150mm fixing plate four times holed welded on, size 1096 x 2300mm high overall (biometric access and electronic magnet lock elsewhere measured) - RSD-04	No	2		
	RA 2				
9	Double gate with biometric access and electronic magnet lock formed of 40 x 40 x 3mm thick hollow section perimeter framing and one middle rail, the top and bottom panels each filled with 16mm diameter round vertical bars at 70mm centres with two 70 x 16mm bullet hinges with 200 x 150mm fixing plate four times holed welded on, size 1500 x 2000mm high overall (biometric access and electronic magnet lock elsewhere measured) - G-01	No	6		
	WAPA 6				
10	Double gate with biometric access and electronic magnet lock formed of 40 x 40 x 3mm thick hollow section perimeter framing and one middle rail, the top and bottom panels each filled with 16mm diameter round vertical bars at 70mm centres with two 70 x 16mm bullet hinges with 200 x 150mm fixing plate four times holed welded on, size 2372 x 2350mm high overall (biometric access and electronic magnet lock elsewhere measured) - G-04	No	1		
	WR1 1				
11	Double gate with biometric access and electronic magnet lock formed of 40 x 40 x 3mm thick hollow section perimeter framing and one middle rail, the top and bottom panels each filled with 16mm diameter round vertical bars at 70mm centres with two 70 x 16mm bullet hinges with 200 x 150mm fixing plate four times holed welded on, size 2380 x 2350mm high overall (biometric access and electronic magnet lock elsewhere measured) - G-03	No	6		
	WR1 6				
Carried to Collection				R	
Section No. 2					
Price List No. 11					
Metalwork					

Item		Unit	Quantity	Rate	Amount
<u>HOT DIPPED GALVANISED STEEL BURGLAR BARS</u>					
<u>50 x 50mm Hot dipped galvanised vertical bars with rounded ends and polished edges and fixed to wall with 10mm diameter counter sunk expansion bolts through 19mm diameter steel pipe spacers with bolt heads securely epoxy fixed to frame. 19mm Diameter hot dipped galvanised steel pipes equally spaced and welded to vertical falt bars</u>					
12	Burglar bar size 600 x 950mm high	No	13		
	MR 7 SB 6				
13	Burglar bar size 1050 x 1500mm high	No	13		
	MR 5 SB 6 TO 2				
14	Burglar bar size 2000 x 760mm high	No	2		
	MR 2				
15	Burglar bar size 760 x 680mm high	No	2		
	SB 2				
16	Burglar bar size 920 x 1830mm high	No	2		
	SB 2				
17	Burglar bar size 520 x 630mm high	No	3		
	TO 3				
18	Burglar bar size 690 x 1390mm high	No	2		
	TO 2				
19	Burglar bar size 2400 x 1000mm high	No	2		
	T2 2				
20	Burglar bar size 4120 x 1000mm high	No	2		
	WA3A 2				
21	Burglar bar size 1770 x 1000mm high	No	29		
	WAPA 29				
<u>GALVANISED STEEL MINOR WORK</u>					
<u>Hot-dip galvanised mild steel security ceiling mesh and frames, including all on and off -site welding, cutting, drilling, grinding smooth, touching up with cold galvanising, fixing in position between trusses</u>					
22	35 x 35 x 3mm Angle iron framing holed at 300mm centres and fixed to exisiting truss	Kg	1 051		
	MR 240 SB 307 TO 216				
	TV 51 T2 88 WA3A 106				
	WAPA 43				
23	25 x 50 x 3mm Flat expanded metal security mesh welded all round to frame	m ²	498		
	MR 148 SB 141 TO 125				
	TV 28 WA3A 34 WAPA 22				
Carried to Collection				R	
Section No. 2					
Price List No. 11					
Metalwork					

Item		Unit	Quantity	Rate	Amount
<u>GALVANISED STEEL BENCHES</u>					
<u>Galvanised and polyurethane painted platform bench, colour mid grey, set into concrete bed including saw cutting existing premix / concrete surfaces, excavations, concrete base, cart away excavated materials, etc. all in accordance to Prasa Specifications (Code: M 05)</u>					
24	Single seat 1620mm long with straight leg	No	17		
	MR 8 T2 2 WA3A 4 WAPA 3				
<u>GALVANISED PRESSED STEEL DOOR FRAMES</u>					
<u>1.5mm Thick double rebated frame for half brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc</u>					
25	Frame for door size 813 x 2032mm	No	12		
	SB 8 TO 4				
26	Frame for door size 1,800 x 2032mm	No	1		
	TV 1				
<u>1.6mm Thick single rebated frame for half/ one brick wall complete with butt hinges and including setting up, building in, filling back of frame with cement mortar, etc</u>					
27	Frame for door size 813 x 2 032mm high	No	28		
	MR 12 SB 2 TO 6 T2 4 WA3A 3 WAPA 1				
28	Frame for door size 1,450 x 2148mm high	No	1		
	TO 1				
<u>STEEL ROLLER SHUTTERS ETC</u>					
<u>Galvanised steel roller shutters with 76mm slats (18kg/m²), fixed to brickwork</u>					
29	Manual push-up slatted roller shutter for 2140 x 2020mm high opening, consisting of a horizontal steel tube that supports the door's weight. The curtain, which is made of cold-rolled galvanized slats, creates the real screen or barrier. Two vertical guiding rails border the cu	No	2		
	TV 2				
30	Manual push-up slatted roller shutter for 3000 x 2507mm high opening, consisting of a horizontal steel tube that supports the door's weight. The curtain, which is made of cold-rolled galvanized slats, creates the real screen or barrier. Two vertical guiding rails border the cu	No	4		
	TO 4				
Carried to Collection				R	
Section No. 2					
Price List No. 11					
Metalwork					

Item		Unit	Quantity	Rate	Amount
<u>ALUMINIUM WINDOWS AND DOORS</u>					
<u>Powder coated aluminium windows glazed with 6.38mm clear laminated safety glass and plugged to brickwork and sealed with silicone sealant and fixing to brickwork or concrete:</u>					
31	Window size 2000 x 600mm high overall with two sides hung opening casement approximate size 450 x 540mm high and fixed middle panel approximate size 980 x 540mm high, all glazing with 6.38mm Low-E glazing, WR1 3 <u>"Crealco" or other equally approved aluminium windows, shopfronts and doors complete with subframes, ironmongery, glass, sealing, etc. and fixing to brickwork or concrete complete with 'KoastGuard" or other equally approved Qualicoat class 2 powder coating, Interpon D2525, Jet Black code QN205P all in accordance with suppliers instruction</u>	No	3		
32	Purpose made Shopfront with 6.38mm clear toughened low-e safety glass SB 15	m ²	15		
33	Extra over shopfront for single door size 900 x 2100mm high SB 2	No	2		
34	Glazed screen overall size 1770 x 2110mm high, including glazed sliding double door 1620 x 2035mm high (GSD-02) SB 2 TO 6	No	8		
<u>BULLET PROOF PAY WINDOWS</u>					
<u>"Mutual Safes" or other equally approved Level G3 bullet resistant glazed & natural anodised aluminium transaction window with 30mm deep stainless steel dish tray and speech transfer posts (interior applications only), overall size to details, glazed in 53mm thick clear glass with 32mm post formed granite counter top</u>					
35	Bullet proof pay window size 610 x 960mm high SB 1	No	1		
Carried to Collection				R	
Section No. 2					
Price List No. 11					
Metalwork					

Item	Unit	Quantity	Rate	Amount
<u>STEEL LOCKERS</u>				
<u>Steel double compartment stacked lockers (Code: LO10), epoxy powder coated with flush fitting doors, for padlock. To comply with BS EN ISO 9001-2000 requirements. Colour, admiral grey</u>				
36	No	18		
300 x 450 x 1800mm high steel lockers				
MR 10 SB 5 WAPA 2				
WR1 1				
<u>BUDGETARY ALLOWANCES</u>				
Works for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required				
37	Item			236 000 00
Allow the Budgetary Allowance of R 236 000.00 (One Hundred and Thirty Six Thousand Rand) net for balustrading, handrails, etc. items to be expended at the discretion of the Project Leadert				
I 1				
Carried to Collection			R	
Section No. 2				
Price List No. 11				
Metalwork				

PRICE LIST NO. 11
METALWORK
COLLECTION

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Amount

Carried To Section Summary

R

Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 12</u>																										
<u>PLASTERING</u>																										
<table><tr><td><u>Key:</u></td><td><u>Location Description:</u></td></tr><tr><td>MR</td><td>Mess Room</td></tr><tr><td>SB</td><td>Station Building</td></tr><tr><td>TO</td><td>Ticket Office</td></tr><tr><td>TV</td><td>Ticket Verification</td></tr><tr><td>T2</td><td>Toilet 2</td></tr><tr><td>WA3A</td><td>Waiting Area 3/ Ablu</td></tr><tr><td>RA</td><td>Refuse Area</td></tr><tr><td>WAPA</td><td>Waiting Area/ Proces</td></tr><tr><td>WR1</td><td>Waiting Room 1</td></tr><tr><td>I</td><td>Item Location</td></tr></table>					<u>Key:</u>	<u>Location Description:</u>	MR	Mess Room	SB	Station Building	TO	Ticket Office	TV	Ticket Verification	T2	Toilet 2	WA3A	Waiting Area 3/ Ablu	RA	Refuse Area	WAPA	Waiting Area/ Proces	WR1	Waiting Room 1	I	Item Location
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<u>SUPPLEMENTARY PREAMBLES</u>																										
<u>The use of trade</u> The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent																										
<u>INTERNAL PLASTER</u>																										
<u>Cement plaster steel trowelled, on brickwork</u>																										
1	On walls	m²	199																							
	MR 85 SB 21 TO 51 TV 4 WAPA 28 WR1 10																									
<u>STRUCTURAL REPAIRS</u>																										
2	Allow the Budgetary Allowance of R45 000 (Forty Five Thousand Rand) net for repairing concrete structure, item to be expended at the discretion of the Project Leader	Item		45 000 00																						
I	1																									
Carried To Section Summary			R																							
Section No. 2																										
Price List No. 12																										
Plastering																										

2-39

Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 13</u>																										
<u>TILING</u>																										
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<u>FLOOR TILING</u>																										
<u>600 x 600mm x 10mm Full bodied porcelain tiles (PC sum of R300/m2 supply and delivered to site, excluding VAT), fixed to internal floor screed with TAL tile adhesive and flush pointed with TAL tile grout</u>																										
1	On floors	m ²	103																							
	MR 3 SB 44 TO 16																									
	T2 19 WA3A 21																									
2	Skirting 100mm high of cut tiles	m	147																							
	SB 21 TO 34 T2 52																									
	WA3A 40																									
3	On floors in patches	m ²	219																							
	MR 92 SB 40 TO 31																									
	T2 4 WAPA 52																									
Carried To Section Summary			R																							
Section No. 2																										
Price List No. 13																										
Tiling																										
2-40																										

Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDERS WORK</u>				
<u>PRICE LIST NO. 14</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>Key:</u>				
<u>Location Description:</u>				
MR	Mess Room			
SB	Station Building			
TO	Ticket Office			
TV	Ticket Verification			
T2	Toilet 2			
WA3A	Waiting Area 3/ Ablu			
RA	Refuse Area			
WAPA	Waiting Area/ Proces			
WR1	Waiting Room 1			
I	Item Location			
NOTE:				
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<u>SANITARY FITTINGS</u>				
Rates for sanitary fittings to include for silicone and sealing to walls, cupboards and floors as applicable				
<u>"Gypsy" or similar approved sanitaryware</u>				
1	Gypsy Standard Universal Vandal Resistant pan, 390mm (w) x 480mm (d) x 410mm (h). duct cistern (code 7109DP), complete with lid, fitments and duct flush pipe. Push button mechanism elsewhere specified. Can be used with any back inlet pan, Installation as per manufacturer's specification	No	3	
	WA3A 3			
2	Vandal resistant Urinal (029800) wall hung with back inlet, supplied with a 38 mm c.p. domical grating, a spreader (with a 20 mm diameter thread), and two hanger brackets.	No	2	
	WA3A 2			
Carried to Collection			R	
Section No. 2				
Price List No. 14				
Plumbing And Drainage				
2-41				

Item		Unit	Quantity	Rate	Amount
9	"Vaal Sanitaryware" 565 x 275 x 310mm Sweetpea white vitreous china wall mounted back inlet urinal (code: 705127) including 38mm chromium plated domical grating (code: 8787Z0) and chromium plated back inlet spreader (code: 7054Z2), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (code: 8127Z0)	No	4		
	MR 2 T2 2 "Betta" or other equally approved				
10	"Atlantis" vitreous china back to wall floor mounted closed rim pan complete with soft close seat, including pan fixations, etc. Installation as per manufacturers specification	No	6		
	MR 6				
11	"Coral" vitreous china top flush suite (code: XTH5T08N) with floor mounted open rim pan, Top flush Cistern, pan fixations, normal close seat and top flush mechanism, complete with lid, fitments, and seat (<i>DO NOT CEMENT PAN TO THE FLOOR USE THE PAN FIXATIONS, SABS and ISO certified.</i>)	No	9		
	SB 2 TO 3 T2 4 WASTE UNIONS ETC "Cobra" Watertech or equal and approved				
12	32mm "302-32" Slotted Basin waste	No	13		
	MR 4 SB 2 TO 3 T2 2 WA3A 2				
13	38mm "316" Sink waste union	No	5		
	MR 1 SB 2 TO 2 TRAPS ETC PVC				
14	40mm Basin plain P-trap	No	13		
	MR 4 SB 2 TO 3 T2 2 WA3A 2				
15	50mm Deep seal P-trap	No	4		
	SB 2 TO 2				
16	50 x 50 x 300mm Sink combination for double bowl sink	No	1		
	MR 1 "Cobra Watertech"				
17	32mm "345/50 CP" bottle trap	No	4		
	MR 2 T2 2 "Seaqual" or other approved floor drain				
18	110 x 110mm "Lolo" floor drain outlet (Code 111063)	No	1		
	RA 1				
Carried to Collection				R	
Section No. 2					
Price List No. 14					
Plumbing And Drainage					

Item		Unit	Quantity	Rate	Amount
<u>TAPS, VALVES, ETC</u>					
<u>"Grohe" or equal and approved</u>					
19	25mm diameter chrome flush valve for WC (code: 37 609) or equal approved for concealed installation with push button actuator, 1,2 - 5,0 bar flow pressure, flow rate adjustment, including 25mm supply pipe, stop valve, flush pipe and 300mm extension pipe to WC.	No	11		
	MR 6 WA3A 5				
<u>"ISCA" or equal and approved</u>					
20	Chrome plated electronic internal urinal flusher (code: 4420/CH) with infrared sensor and solenoid valve connected to 9V DC	No	6		
	MR 2 T2 2 WA3A 2				
<u>"Cobra Watertech" or equal and approved</u>					
21	"Noka" 15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges (Code: NA-970), manufactured in accordance with SANS 226:2004 Type 1 (BS 5412)	No	5		
	MR 1 SB 2 TO 2				
22	Self-closing push button metering spout, Pillar type with non-hold open feature for cold water only. Chrome finish. Flow time 6 -9 secs. SANS 1808 - 9	No	9		
	MR 4 SB 2 TO 1 WA3A 2				
23	15mm Chrome plated angle regulating valve with 350mm long flexible service connection (product code 832/350F)	No	35		
	MR 13 SB 6 TO 3 T2 6 WA3A 7				
24	15mm Chrome plated hi-waist medical elbow action pillar tap. SANS 226 TYPE 2.	No	2		
	TO 2				
<u>ELECTRIC WATER HEATERS</u>					
<u>Point of use electric water heaters, Kwikot or Franke Zip 5, 10, 15 or 30 litre over- & under basin or equal approved.</u>					
25	30 litre electric thermostat regulated overbasin water heater size 360 x 360 x 300mm with- or without stop cock and spout, fixed on mounting bracket plugged and screwed to wall. including all joints to copper pipes, fixing to wall and connecting up (Electrical connection required.)	No	4		
	SB 2 TO 2				
Carried to Collection				R	
Section No. 2					
Price List No. 14					
Plumbing And Drainage					

Item	Unit	Quantity	Rate	Amount				
<u>Kwikot or Franke ZIP Stainless steel water boiler</u>								
26	No	4						
5 litre Stainless steel water boiler, approximate size 275 x 165 x 365mm high with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, connected to 15mm cold water supply including isolating valve and 230 volt 1800 watt electrical power supply, plugged and screwed to wall and fitted under 1 year warranty								
SB 2 TO 2								
<u>BUDGETARY ALLOWANCES</u>								
Works for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required								
27	Item			128 000 00				
Allow the Budgetary Allowance of R 128 000.00 (One Hundred and Twenty Eight Thousand Rand) net for plumbing and drainage, items to be expended at the discretion of the Project Leadert jj								
I 1								
Carried to Collection				R				
Section No. 2								
Price List No. 14								
Plumbing And Drainage								
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PRICE LIST NO. 14
PLUMBING AND DRAINAGE
COLLECTION

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Section No. 2
Price List No. 14
Plumbing And Drainage

Item	Unit	Quantity	Rate	Amount																						
<u>SECTION NO. 2</u>																										
<u>BUILDERS WORK</u>																										
<u>PRICE LIST NO. 15</u>																										
<u>GLAZING</u>																										
<table><tr><td><u>Key:</u></td><td><u>Location Description:</u></td></tr><tr><td>MR</td><td>Mess Room</td></tr><tr><td>SB</td><td>Station Building</td></tr><tr><td>TO</td><td>Ticket Office</td></tr><tr><td>TV</td><td>Ticket Verification</td></tr><tr><td>T2</td><td>Toilet 2</td></tr><tr><td>WA3A</td><td>Waiting Area 3/ Ablu</td></tr><tr><td>RA</td><td>Refuse Area</td></tr><tr><td>WAPA</td><td>Waiting Area/ Proces</td></tr><tr><td>WR1</td><td>Waiting Room 1</td></tr><tr><td>I</td><td>Item Location</td></tr></table>					<u>Key:</u>	<u>Location Description:</u>	MR	Mess Room	SB	Station Building	TO	Ticket Office	TV	Ticket Verification	T2	Toilet 2	WA3A	Waiting Area 3/ Ablu	RA	Refuse Area	WAPA	Waiting Area/ Proces	WR1	Waiting Room 1	I	Item Location
<u>Key:</u>	<u>Location Description:</u>																									
MR	Mess Room																									
SB	Station Building																									
TO	Ticket Office																									
TV	Ticket Verification																									
T2	Toilet 2																									
WA3A	Waiting Area 3/ Ablu																									
RA	Refuse Area																									
WAPA	Waiting Area/ Proces																									
WR1	Waiting Room 1																									
I	Item Location																									
NOTE: Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill																										
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agen																										
<u>GLAZING TO ALUMINIUM FRAME</u>																										
<u>6.38mm clear laminated safety glass to comply with AAAMSA performance criteria A0 (600Pa) with clip on glazing beads & gasket seals fixed to container outer walls as per manufacturers specifications</u>																										
1	Panes exceeding 0,5m2 and not exceeding 2m2	m²	3																							
	SB 3																									
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>																										
<u>6mm Silvered float glass copper backed mirrors, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork</u>																										
2	Mirror 600 x 900mm high with 4 screws	No	8																							
	SB 2 TO 2 T2 2																									
	WA3A 2																									
3	Mirror 1750 x 900mm high with 4 screws	No	2																							
	MR 2																									
Carried To Section Summary			R																							
Section No. 2																										
Price List No. 15																										
Glazing																										

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Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>BUILDERS WORK</u>				
<u>PRICE LIST NO. 16</u>				
<u>PAINTWORK</u>				
<u>Key:</u>	<u>Location Description:</u>			
MR	Mess Room			
SB	Station Building			
TO	Ticket Office			
TV	Ticket Verification			
T2	Toilet 2			
WA3A	Waiting Area 3/ Ablu			
RA	Refuse Area			
WAPA	Waiting Area/ Proces			
WR1	Waiting Room 1			
I	Item Location			
NOTE:				
Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill				
NOTE:				
The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agen				
<u>SUPPLEMENTARY PREAMBLES</u>				
Note: The use of trade names simply serves to indicate a standard acceptable to the Chief Directorate Works. Any other brand may be used with the prior written approval of the Chief Directorate Works				
<u>PREPARATORY WORK TO EXISTING WORK</u>				
Previously painted plastered surfaces				
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, apply bonding liquid and one coat approved alkali resistant primer to opened cracks before filling with a suitable filler and finished smooth. Apply bonding liquid and one coat approved alkali resistant primer to all bare substrate and filled areas				
Previously painted metal surfaces				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
Previously painted wood surfaces				
Carried to Collection			R	
Section No. 2				
Price List No. 16				
Paintwork				

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Item	Unit	Quantity	Rate	Amount
<p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><u>COLOURS</u></p> <p>Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards</p> <p><u>PREPARATION OF EXISTING SURFACES</u></p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p>Note that minimum 7 year warranty is required to be provided for all new paint work</p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>One coat alkali resistant primer and two coats premium quality ultra matt, fully washable and stain resistant acrylic emulsion paint for interior use</u></p>				
1	m ²	199		
<p>On walls</p> <p>MR 85 SB 21 TO 51 TV 4 WAPA 28 WR1 10</p> <p><u>ON INTERNAL GYPSUM PLASTER SURFACES</u></p> <p><u>Prepare surfaces and remove all loose material, apply one coat primer and two coats acrylic PVA paint</u></p>				
2	m ²	677		
<p>On ceilings and cornices</p> <p>MR 148 SB 141 TO 99 TV 28 T2 26 WA3A 34 WAPA 143 WR1 58</p> <p><u>ON WOOD SURFACES</u></p> <p><u>Surface to be clean, dry and dust free. Prime surface with one coat Dulux Supergrip (Code: D35) with an overcoating time of 12 hours, undercoat with one coat Dulux Trade Universal Undercoat (Code: T1001) with an overcoating time of 18 hours and finish with two coats Dulux Trade Pearlgló (Code: T3003) with an overcoating time of 18 hours.</u></p>				
3	m ²	136		
<p>On internal doors</p> <p>MR 39 SB 33 TO 21 TV 14 T2 13 WA3A 10 WAPA 3 WR1 3</p>				
Carried to Collection			R	
<p>Section No. 2 Price List No. 16 Paintwork</p>				

Item		Unit	Quantity	Rate	Amount
	<u>Ensure surfaces are clean, dry and sound. Apply either Plascon Universal Undercoat (UC 1) or Professional Undercoat (PU 800) to bare and repaired areas. Allow 16 hours to dry; or apply Plascon Multisurface Primer (WUP 1) to bare and repaired areas. Allow 2 hours to dry. Finish with two coats of Plascon Professional Gloss Enamel (PSB 1000) with 16 hours drying time between coats</u>				
7	On windows	m ²	175		
	MR 30 SB 19 TO 10				
	T2 5 WA3A 8 WAPA 103				
8	On steel cages	m ²	97		
	WAPA 97				
Carried to Collection					R
Section No. 2					
Price List No. 16					
Paintwork					

PRICE LIST NO. 16
PAINTWORK
COLLECTION

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Section No. 2
Price List No. 16
Paintwork

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	<u>BUILDERS WORK</u>		
	<u>SECTION SUMMARY</u>		
1	ALTERATIONS	2-8	
3	CONCRETE, FORMWORK AND REINFORCEMENT	2-11	
4	MASONRY	2-14	
5	WATERPROOFING	2-15	
6	ROOF COVERINGS	2-16	
7	CARPENTRY AND JOINERY	2-20	
8	CEILINGS PARTITIONS AND ACCESS FLOORING	2-23	
9	FLOOR COVERINGS, WALL LININGS, ETC.	2-26	
10	IRONMONGERY	2-30	
11	METALWORK	2-38	
12	PLASTERING	2-39	
13	TILING	2-40	
14	PLUMBING AND DRAINAGE	2-46	
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16	PAINTWORK	2-52	
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Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>EXTERNAL WORKS</u> <u>PRICE LIST NO. 1</u> <u>EXTERNAL WORKS</u>				
<u>Key:</u> <u>Location Description:</u> I Item Location				
NOTE: Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill. NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent.				
<u>Fencing</u>				
1				RATE ONLY
I 307	m			
<u>Site preparation and removal of topsoil</u>				
2				RATE ONLY
I 163	m ³			
3				RATE ONLY
I 652	m ³			
<u>Removal of existing block paving</u>				
4				RATE ONLY
I 652	m ²			
<u>Excavation</u>				
<u>Cut to spoil</u>				
5				RATE ONLY
I 652	m ³			
<u>Cut to stockpile</u>				
6				RATE ONLY
I 163	m ³			
Carried to Collection			R	
Section No. 3				
Price List No. 1				
External Works				

Item		Unit	Quantity	Rate	Amount
	<u>Stockpile to fill: Platforms, Roads and/or parking areas</u>				
	<u>Excavate in all materials, select, load, cart, dump, spread, grade to falls and slopes, in layers not exceeding 250mm thick and compact at optimum moisture content to</u>				
7	95% ModAASHTO density for Bulk Fill I 652	m ³			RATE ONLY
8	95% ModAASHTO density for Lower Selected layer (150mm thick) I 652	m ³			RATE ONLY
9	95% ModAASHTO density for Upper Selected layer (150mm thick) I 652	m ³			RATE ONLY
	<u>Preparation for fill</u>				
	<u>Rip and re-compact in situ layerworks material</u>				
10	Rip and re-compact in-situ material to obtain a density of 93% Mod. AASHTO for roads, parking areas and platforms I 5435	m ²			RATE ONLY
	<u>Fill material from commercial sources</u>				
	<u>Selected material for filling from suitable commercial sources cost to include transport, spreading, mixing and compacting at optimum moisture content for</u>				
11	150mm thick G5 material to 93% Mod. AASHTO density for roads, platforms, and/or parking areas I 652	m ³			RATE ONLY
	<u>Topsoiling</u>				
12	Selected topsoil from site clearance stockpiles, including excavating selected material, loading, carting, dumping, spreading in layers and lightly compacting to finished thickness of not less than 75mm thick to required lines, grades and levels, including grading and preparing areas to receive topsoil I 408	m ²			RATE ONLY
	<u>Surface finishes</u>				
	<u>Grassing cover</u>				
13	Hydroseeding, at a rate of 0.75kg/m ² and strictly in accordance with the manufacturer's instructions, water, establish and maintain I 120	m ²			RATE ONLY
	Carried to Collection			R	
	Section No. 3				
	Price List No. 1				
	External Works				

Item		Unit	Quantity	Rate	Amount
	<u>Soil/Weeds Poisoning</u>				
14	Poisoning of soil/weeds on the platform with SABS approved product I 5435	m ²	5 435		
	<u>ANCILLARY ROADWORKS</u>				
	<u>Traffic Marks</u>				
	<u>Supply and apply retro-reflective paint</u>				
15	100mm white lines (unbroken) I 442	m	442		
16	100mm white lines (broken) I 442	m	442		
17	100mm yellow lines (unbroken) I 663	m	663		
	<u>Fencing</u>				
	<u>Powder coated galvanised security mesh fence with galvanised steel pipe posts, stays, etc including galvanised steel bolts, straining eye bolts, etc</u>				
18	Mesh panels size 2 400mm high, formed of 4mm diameter horizontal and 4mm diameter vertical high tensile line galvanised with paint primer and coloured finish coat wires with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 76,2 x 76,2 x 6mm square tube posts 3,305m high at 2,534m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep with 15MPa concrete sill size 200 x 200mm between bases and fence I 307	m			RATE ONLY
19	Extra over for sliding gate with intercom & motor - 6,000 x 2,400mm high I 4	No	4		
20	Single pedestrian gate - 1,100 x 2,400mm high I 2	No	2		
	<u>PLATFORMS</u>				
21	Supply, transport, and install 600mm x 960mm yellow blister pack tact-tiles complete with ancillary items I 1105	No	1 105		
22	Circular yellow markings on platform (broken) I 1326	No	1 326		
23	Supply and install signage boards I 6	No			RATE ONLY
	Carried to Collection			R	
	Section No. 3 Price List No. 1 External Works				

PRICE LIST NO. 1
EXTERNAL WORKS
COLLECTION

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External Works

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Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>ELECTRICAL INSTALLATION</u> <u>PRICE LIST NO. 1</u> <u>BULK SUPPLY & RETICULATION</u>				
<p><u>Key:</u> <u>Location Description:</u></p> <p>IL Item Location</p>				
<p>NOTE:</p> <p>Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.</p>				
<p>NOTE:</p> <p>The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent.</p>				
<p><u>BULK SUPPLY & RETICULATION</u></p> <p>The complete installation must comply SANS 0142 specifications and the quality specification in this document. Therefore tenders are advised to study the specification and drawings before the Bill is to be price</p>				
<p><u>BULK SUPPLY</u></p>				
1	Sum	1		
<p>Allow a Provisional Sum for Service Connection based on Tariff Plan and bulk Engineering Contributions to Local Energy Metropolitan Municipality including a 150kVA Supply connection.</p>				
IL 1				
2	No	1		
<p>Diagram. The metering panel to comply with the local municipality specifications and statutory requirements. The rate shall include meter and plinth.</p>				
IL 1				
3	No			RATE ONLY
<p>Supply and install main Outdoor weatherproof LV panel as per schemati diagram. The rate shall include plinth.</p>				
<p><u>CABLES, CONDUCTORS & SLEEVES</u></p>				
<p><u>Supply and install PVC insulated amoured copper cables</u></p>				
4	m	80		
<p>95mm² 4 x core PVC insulated copper cable (For incoming municipal supply, supply cable from the boundary kiosk to generator changeover panel)</p>				
IL 80				
5	m	95		
<p>70mm² 4 core PVC insulated copper cable (From DB-Generator to DB-M)</p>				
IL 95				
Carried to Collection			R	
Section No. 4				
Price List No. 1				
Bulk Supply & Reticulation				

Item		Unit	Quantity	Rate	Amount
6	10mm2 4 core PVC insulated copper cable IL 110	m	110		
7	10mm2 3 core PVC insulated copper cable IL 130	m	130		
	<u>Supply and install bare copper earth conductor</u>				
8	70mm2 bare copper earth cable IL 80	m	80		
9	50mm2 bare copper earth cable IL 95	m	95		
10	6mm2 bare copper earth cable IL 120	m	120		
	<u>Glands and Shrouds</u>				
11	95mm2 4 x core PVC insulated copper cable IL 4	No	4		
12	70mm2 4 core PVC insulated copper cable IL 2	No	2		
13	10mm2 4 core PVC insulated copper cable IL 2	No	2		
14	10mm2 3 core PVC insulated copper cable IL 2	No	2		
	<u>Glands and Shrouds (Earth bare)</u>				
15	70mm2 bare copper earth cable IL 4	m	4		
16	50mm2 bare copper earth cable IL 2	m	2		
17	6mm2 bare copper earth cable IL 2	m	2		
	<u>Cable Markers and Warning Tapes</u>				
18	Cable markers for cable routes indication IL 4	No	4		
19	Cable warning tape IL 150	m	150		
	<u>Supply and Install PVC Sleeves</u>				
20	110 diameter IL 40	m	40		
21	50 diameter IL 40	m	40		
Carried to Collection				R	
Section No. 4					
Price List No. 1					
Bulk Supply & Reticulation					

Item		Unit	Quantity	Rate	Amount
<u>TRENCHING AND EXCAVATIONS (600mm wide & 800mm deep). Rate to include bedding and backfilling</u>					
22	Pickable soil	m	40		
	IL 40				
23	Soft rock	m			RATE ONLY
24	Hard rock	m			RATE ONLY
25	Install 800x800x800mm electrical manhole	No	2		
	IL 2				
26	Install 600x600x800mm electronics manhole	No	2		
	IL 2				
Carried to Collection				R	
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Bulk Supply & Reticulation					

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Section No. 4
Price List No. 1
Bulk Supply & Reticulation

Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>ELECTRICAL INSTALLATION</u> <u>PRICE LIST NO. 2</u> <u>BLOCK A: SHARED SUPPORT AND PROMOTIVE</u>				
<u>Key:</u> <u>Location Description:</u> IL Item Location				
NOTE: Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.				
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent.				
<u>BLOCK A: SHARED SUPPORT AND PROMOTIVE & PREVENTATIVE CARE</u> The complete installation must comply to GDID electrical installation specifications. Therefore Tenders are advised to study the specifications and drawings before the Bill is to be price.				
<u>CONDUITS</u> <u>Supply and install pipes including short lengths jointing, sweeping bends, buses, locknuts, roundboxes etc.:</u>				
1				
20mm diameter PVC pipe cast into concrete, brick work or suspended in ceiling voids				
	m	200		
IL 200				
2				
20mm diameter copex conduit				
	m	100		
IL 100				
<u>Supply and install steel galvanised walls boxes complete with all accessories</u>				
3				
100mm x 50mm x 50mm deep				
	No	100		
IL 100				
4				
100mm x 100mm x 50mm deep				
	No	150		
IL 150				
5				
Supply and install 1,6mm diameter steel galvanised draw wires drawn into conduit/sleeves:				
	m	120		
IL 120				
6				
Supply and install 100mm x 100mm blank cover plates				
	No	20		
IL 20				
Carried to Collection			R	
Section No. 4				
Price List No. 2				
Block A: Shared Support And Promotive				

Item		Unit	Quantity	Rate	Amount
7	Supply and install 4 way PVC round boxes IL 250	No	250		
8	Supply and install 100mm X 50 blank plates IL 20	No	20		
<u>ELECTRICAL CABLE MANAGEMENT & TRUNKING</u>					
<u>Supply, Install, Test and Commission</u>					
Galvanised unistrut suspended from structure in the roof. Fixings not to exceed 4m including galvanized steel cover (Rates to include: Tees, Bends, 4 ways, ends and all other accessories)					
9	P9000 Unistrut IL 40	m	40		
10	P8000 Unistrut IL 40	m	40		
11	P2000 Unistrut IL 16	m	16		
<u>Power Skirting Aluminium:(To include All: elbows, corners sections, T-sections & end caps)</u>					
12	Cabstrut N8/P803, 2-way with 2 cover plates & divider IL 40	m	40		
<u>DISTRIBUTION BOARDS (Refer to schematic diagrams)</u>					
<u>Supply and install main distribution boards as per the schematic diagram. The distribution boards will be surface mounted in the electrical duct provided or flushed in wall. The distribution board doors must have a neat and professionally manufactured cut-out, with reinforced and properly finished edges, so that the main isolator of the distribution board can be switched without opening the door in case of emergency. Distribution boards must lockable and padlocks must be supplied with the distribution board</u>					
13	DB-M IL 1	No	1		
14	DB-PL IL 1	No	1		
15	DB-ABL IL 1	No	1		
Carried to Collection				R	
Section No. 4					
Price List No. 2					
Block A: Shared Support And Promotive					

Item		Unit	Quantity	Rate	Amount
<u>CONDUCTORS</u>					
<u>Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, etc. (Wiring for lighting circuits is to be carried out with 2,5mm² conductors and 2,5mm² earth conductors. For socket outlet circuits the wiring shall comprise of 4 mm² conductors with 2, 5mm² earth conductors)</u>					
16	1.5mm2	m	1 350		
	IL 1350				
17	2.5mm2	m	1 550		
	IL 1550				
18	4mm2	m	850		
	IL 850				
19	6mm2	m			RATE ONLY
<u>Earth Wire</u>					
20	1.5mm2	m	1 350		
	IL 1350				
21	2.5mm2	m	1 550		
	IL 1550				
22	4mm2	m	850		
	IL 850				
<u>SOCKETS OUTLETS</u>					
<u>Supply, install and connect socket outlets in flush wall mounted boxes, power skirting, trunking or surface if required complete with cover plates and all necessary accessories</u>					
23	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets	No	10		
	IL 10				
24	Supply and install 230V, 16A combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) with weatherproof (IP44) box flush mounted on the wall c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets	No	6		
	IL 6				
Carried to Collection				R	
Section No. 4					
Price List No. 2					
Block A: Shared Support And Promotive					

Item		Unit	Quantity	Rate	Amount
25	Supply and install 230V, with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket + 2 x USB Ports combined flush mounted on the power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 socket outlets	No	12		
	IL 12				
26	Supply and install 230V, 16A Essential supply combination switched socket outlets (with 1 x standard 16A round 3 pin socket + 1 x 3 pin ZA plug socket combined) flush mounted on the wall or power skirting c/w steel cover plate (white) suitable to accommodate SANS 164-1 & SANS 164-2 socket outlets	No	4		
	IL 4				
27	Supply and install cluster unit to accommodate: 1 x 16A standard round 3- pin switched socket outlet, 16A 3-pin ZA plug switched socket outlet + 1 x RJ11 telephone outlet and RJ45 data outlet complete with covers, blank plates and all necessary accessories (to be installed in 1 tier wall box). Rates to include blank covers for RJ11 and RJ45 only as these outlets are measured under ICT	No	3		
	IL 3				
28	Supply and install 5 Amp single un-switched Socket outlet (complete with 60mm pvc round box for light fittings). The socket to be mounted on the trunking or somewhere else in the ceiling void	No	42		
	IL 42				
	<u>SWITCHES</u>				
	<u>Supply, install and connect light switches in flush wall mounted boxes, complete with cover plates and all necessary accessories</u>				
29	Supply and install 16A one lever one way light switch flush mounted on the wall	No	6		
	IL 6				
30	Supply and install 16A two lever one way light switch flush mounted on the wall	No	2		
	IL 2				
31	Supply and install 16A one lever two way light switch flush mounted on the wall	No	4		
	IL 4				
32	Supply and install motion sensor	No	16		
	IL 16				
33	Supply and install Day light switch/photocell	No	4		
	IL 4				
Carried to Collection				R	
Section No. 4					
Price List No. 2					
Block A: Shared Support And Promotive					

Item		Unit	Quantity	Rate	Amount
<u>ISOLATORS</u>					
<u>Supply, install and connect isolators in flush wall mounted boxes or surface, complete with cover plates and all necessary accessories (Isolators to be mounted within one meter of the equipment to be controlled)</u>					
34	Supply and install 230V, 30A double pole isolator surface mounted in the ceiling void for geyser connection. Rates to include 4 inch x 4 inch extension box	No	1		
	IL 1				
35	Supply and install 230V, 30A double pole isolator flush mounted in the wall for Geyser Controller	No	1		
	IL 1				
36	Supply and install 230V, 20A double pole isolator flush mounted in the wall for Fire Detection Panel connection	No	1		
	IL 1				
37	Supply and install 230V, 30A double pole isolator mounted in the ceiling void or on wall for HVAC .Rates to include 4 inch x 4 inch extension box	No	6		
	IL 6				
<u>LUMINAIRES</u>					
<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. All recessed light fittings should be supplied with 3m connection lead</u>					
38	Type L08 (LED 43W Surface mounted fitting with 0.8mm powder coated mild steel luminair cover as specified)	No	62		
	IL 62				
39	Type L13 (Surface mounted bulkhead 20W LED with temperproof diffuser IP66)	No	40		
	IL 40				
40	Type 12 (Wall mounted 18W LED round bulkhead IP66 light fitting with temperproof diffuser)	No	50		
	IL 50				
41	Occupational sensor	No	27		
	IL 27				
42	Type L1 (Surface mounted luminaire, 55W LED line 600mm fitting with 7462 LM, made from an injection moulded frame retardant polycarbonated housing with diffuser and x6 tamper proof.)	No	8		
	IL 8				
Carried to Collection				R	
Section No. 4					
Price List No. 2					
Block A: Shared Support And Promotive					

Item	Unit	Quantity	Rate	Amount
43 Type F (Surface mounted Vapourproof 48W LED Luminaire IP66) IL 7	No	7		
44 Type G (Surface mounted Temperproof 48W LED Luminaire IP66)	No			RATE ONLY
45 Type H (LEDdisk Max decorative suspended LED downlight Luminaire IP54 120W 4000K Colour)	No			RATE ONLY
46 Type I (BEKA QUAL 18W LED Rectangular bulkhead Luminaire wall ounted IP66)	No			RATE ONLY
<u>TELECOMMUNICATION AND DATA</u>				
47 RJ11 cover plate on Power skirting IL 10	No	10		
48 RJ45 cover plate on Power skirting IL 10	No	10		
49 450mm x 300mm x 125mmdeep telephone wall box IL 1	No	1		
50 TESTING AND COMMISSIONING	No	0		
51 Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliances by an accredited person. IL 2	No	2.00		
<u>EARTHING</u>				
52 Earthing of all buildings to comply with the latest SANS10142, Code of Practice for The Wiring of Premises as amended. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including fixings, brass screws, nuts, washers etc.: Also include for the earth mat with earth spikes IL 8	No	8		
Carried to Collection			R	
Section No. 4 Price List No. 2 Block A: Shared Support And Promotive				

PRICE LIST NO. 2
BLOCK A: SHARED SUPPORT AND PROMOTIVE
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Section No. 4
Price List No. 2
Block A: Shared Support And Promotive

Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u> <u>ELECTRICAL INSTALLATION</u> <u>PRICE LIST NO. 3</u> <u>EARTHING AND LIGHTNING PROTECTION</u>				
<u>Key:</u> <u>Location Description:</u> IL Item Location				
NOTE: Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.				
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent.				
NOTE: (a) The earthing & lightning protection installation shall be strictly as per the latest SANS Specifications, these are available from the SABS, and the onus is on the contractor to acquire his /her own copy:(b) Install SABS Approved earthrods (1,5m in length, 16mm Dia copper plated) in predrilled holes (55mm Dia) as per drawing. (c) Connect the earthrod via 70mm ² Insulated Copper wire & wire rope clamps/u-bolts to the rebar of the column or testing points. (d) The 70mm ² Insulated Copper wire must be laid in a trench 500mm in depth & the copper must be connected to the earthrod via electrothermic welding. (e) All pre-drilled holes must be backfilled with conductive cement, as per supplier's specification. (f) The roof should be bonded every 20m to the column via 35mm ² Insulated Copper wire (connected to the rebar & connected to the zinc roof.				
<u>LIGHTNING PROTECTION</u>				
1	Install 1,5m SABS Approved earthrods at a depth off 500mm below ground level	No	6	
	IL 6			
2	70mm ² Insulated Copper wire	m	14	
	IL 14			
3	Bond to test point as per drawing	No	4	
	IL 4			
4	Electrochemical /Exothermic connection	No	4	
	IL 4			
5	Trenching in soft rock	m ³	14	
	IL 14			
Carried to Collection			R	
Section No. 4				
Price List No. 3				
Earthing And Lightning Protection				

Item		Unit	Quantity	Rate	Amount
6	PVC conduit 25mm diameter (flush mounted in the wall from the roof to the flush galvanised conduit box and from conduit box to the earth peg outside the building)	m	400		
	IL 400				
7	105mm x 105 mm galvanized conduit box located 300 mm above finished floor level and fitted with blank PVC cover plates labelled "Earth Test Point".	No	4		
	IL 4				
8	Conductive cement	No	4		
	IL 4				
9	Continuous 35 square mm round solid zinc coated copper strip secured to roof of building, including all clamps, joints and fixing accessories	m			RATE ONLY
10	Continuous 8mm diameter round aluminium conductor secured to roof of building, including all clamps, joints and fixing accessories	m	40		
	IL 40				
11	10mm ² bare copper earth wire for interconnection of earth pegs	m	400		
	IL 400				
Carried to Collection				R	
Section No. 4					
Price List No. 3					
Earthing And Lightning Protection					

PRICE LIST NO. 3
EARTHING AND LIGHTNING PROTECTION
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Section No. 4
Price List No. 3
Earthing And Lightning Protection

Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 4</u>				
<u>ELECTRICAL INSTALLATION</u>				
<u>PRICE LIST NO. 4</u>				
<u>CONNECTION</u>				
<u>Key:</u>				
IL				
<u>Location Description:</u>				
Item Location				
NOTE:				
Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.				
NOTE:				
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<u>ELECTRICAL WORK INSTALLATION</u>				
<u>ESKOM SUB-STATION</u>				
1	Allow for secondary connection from ESKOM sub-station to main kiosk	No	1	
IL	1			
Carried To Section Summary			R	
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Price List No. 4				
Connection				

			Amount
<u>SECTION NO. 4</u>			
<u>ELECTRICAL INSTALLATION</u>			
<u>SECTION SUMMARY</u>			
Price List No.		Page	
1	BULK SUPPLY & RETICULATION	4-4	
2	BLOCK A: SHARED SUPPORT AND PROMOTIVE	4-11	
3	EARTHING AND LIGHTNING PROTECTION	4-14	
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Carried to Final Summary			
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Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>FIRE PROTECTION AND MECHANICAL</u>				
<u>PRICE LIST NO. 1</u>				
<u>Comissioniong & Do</u>				
<u>Comissioning and documentation</u>				
<u>Key:</u>	<u>Location Description:</u>			
I	Item Location			
NOTE:				
Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.				
NOTE:				
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<u>COMISSIONING AND DOCUMENTATION</u>				
1	Preparation of O & M manuals and commissioning reports	Item		
I	1			
2	Preparation of shop drawings samples etc.	Item		
I	1			
3	As Built Drawings In accordance to specification	Item		
I	1			
4	Testing, Commissioning, Balancing & Handing over	Item		
I	1			
5	Engineering, Submissions & Approvals	Item		
I	1			
6	Compliance with OHS specifications	Sum	1.00	
I	1			
7	Additional test required by Engineer	Sum	1	
I	1			
8	Training of End-user	Sum	1	
I	1			
Carried To Section Summary			R	
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Price List No. 1				
Comissioniong & Do				
Comissioning And Documentation				

Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>FIRE PROTECTION AND MECHANICAL</u>				
<u>PRICE LIST NO. 2</u>				
<u>Part 2- Air Condit</u>				
<u>Comissioning and documentation</u>				
<u>Key:</u>	<u>Location Description:</u>			
I	Item Location			
NOTE:				
Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.				
NOTE:				
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<u>PART 2 - AIR CONDITIONING INSTALLATION</u>				
<u>Supply, installation and setting of the following drawings</u>				
<u>Waiting Area 6</u>				
<u>HEAT PUMP MID WALL SPLIT UNIT INVERTER</u>				
Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings and datasheets.				
Summary as follows:				
<u>MIDWALL HEAT PUMP SPLIT UNITS</u>				
<u>Supply and install inverter type DX heat pump midwall units complete with fittings and fixtures, includin insulated supply and return air plenum boxes, as specified and shown on the drawing</u>				
1	[AC01]: Nominal Cooling Capacity : 9 000Btu	No	1	
	I 1			
2	[AC02]: Nominal Cooling Capacity : 24 000Btu	No	1	
	I 1			
Carried to Collection			R	
Section No. 5				
Price List No. 2				
Part 2- Air Condit				
Comissioning And Documentation				

Item		Unit	Quantity	Rate	Amount
	<u>CEILING CASSETTE HEAT PUMP SPLIT UNITS</u>				
	<u>Supply and install inverter type DX heat pump ceiling cassette units complete with fittings and fixtures, including insulated supply and return air plenum boxes, as specified and shown on the drawing</u>				
3	[AC02]: Nominal Cooling Capacity : 24 000Btu I 1	No	1		
	<u>Zone A Waiting room 1</u>				
4	AC01]: Nominal Cooling Capacity : 12 000Btu I 1	No	1		
	<u>Zone C Station building</u>				
	<u>Supply and install inverter type DX heat recovery ceiling cassette units complete with fittings and fixtures, including insulated supply and return air plenum boxes, as specified and shown on the drawing</u>				
	<u>Ceiling cassette Fain coil units of following cooling capacities:</u>				
5	3.6Kw I 3	No	3		
6	5.8kW I 2	No	2		
7	6.8Kw I 1	No	1		
8	7,6Kw I 1	No	1		
	<u>Outdoor VRV Unit</u>				
9	Supply and install inverter type heat recovery VRV outdoor unit with capacity of 36,8KW complete with fittings and fixtures, including insulated supply and return pipping, internal and external ref jointss, as specified and shown on the drawing I 1	No	1		
	<u>MIDWALL HEAT PUMP SPLIT UNITS</u>				
	<u>Supply and install inverter type DX heat pump midwall units complete with fittings and fixtures, including insulated supply and return air plenum boxes, as specified and shown on the drawing</u>				
10	[AC01]: Nominal Cooling Capacity : 28 000Btu I 1	No	1		
Carried to Collection				R	
Section No. 5					
Price List No. 2					
Part 2- Air Condit					
Comissioning And Documentation					

Item		Unit	Quantity	Rate	Amount
	<u>Zone D Mess Room</u>				
	<u>Supply and install inverter type DX heat recovery ceiling cassette units complete with fittings and fixtures, including insulated supply and return air plenum boxes, as specified and shown on the drawing</u>				
	<u>Ceiling cassette Fain coil units of following cooling capacities:</u>				
11	5.6kW I 1	No	1		
12	6.8Kw I 4	No	4		
	<u>Outdoor VRV Unit</u>				
13	Supply and install inverter type heat recovery VRV outdoor unit with capacity of 35KW complete with fittings and fixtures, including insulated supply and return pipping, internal and external ref jointss, as specified and shown on the drawing I 1	No	1		
	<u>Zone A ticket office</u>				
	<u>Supply and install inverter type DX heat recovery ceiling cassette units complete with fittings and fixtures, including insulated supply and return air plenum boxes, as specified and shown on the drawing</u>				
	<u>Ceiling cassette Fain coil units of following cooling capacities:</u>				
14	4.8Kw I 3	No	3		
15	6.8Kw I 1	No	1		
	<u>Outdoor VRV Unit</u>				
16	Supply and install inverter type heat recovery VRV outdoor unit with capacity of 21.2KW complete with fittings and fixtures, including insulated supply and return pipping, internal and external ref jointss, as specified and shown on the drawing I 1	No	1		
Carried to Collection				R	
Section No. 5					
Price List No. 2					
Part 2- Air Condit					
Comissioning And Documentation					

Item		Unit	Quantity	Rate	Amount
	<u>MIDWALL HEAT PUMP SPLIT UNITS</u>				
	<u>Supply and install inverter type DX heat pump midwall units complete with fittings and fixtures, including insulated supply and return air plenum boxes, as specified and shown on the drawing</u>				
17	[AC01]: Nominal Cooling Capacity : 12 000Btu I 1	No	1		
	<u>REFRIGERANT PIPING (R 410)</u>				
	<u>Supply and install complete with all fixtures and appurtinancies for complete installation</u>				
	<u>Refrigerant pipes complete with thermal insulation, other fittings and fixtures, brackets, pressure tested and fully charged up with refrigerant in accordance with datasheets and specifications for the above.</u>				
18	12.7mm diameter I 80	m	80		
19	15.9mm diameter I 80	m	80		
20	22.5mm diameter I 80	m	80		
21	28.5mm diameter I 80	m	80		
	<u>CABLE RACK</u>				
	<u>Supply and install cable rack for refrigerant piping c/w joints and fixtures and fittings.</u>				
22	100mm wide I 80	m	80		
	<u>Supply PVC condensate pipes c/w joints and fixtures and fittings</u>				
23	25mm diameter I 80	m	80		
	<u>CONTROL UNITS</u>				
24	Supply and install wiredremote control units as specified for all DX split air conditioning units. I 22	No	22		
	<u>ELECTRICAL WORK</u>				
25	Supply and install electrical work including power and control cabling and connections as specified for the air conditioning units. I 22	No	22.00		
	Carried to Collection				
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	Price List No. 2				
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PRICE LIST NO. 2
Part 2- Air Condit
Comissioning and documentation
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Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u>				
<u>FIRE PROTECTION AND MECHANICAL</u>				
<u>PRICE LIST NO. 3</u>				
<u>Part 3 - Fire Protection Installation</u>				
<div><div><u>Key:</u></div><div>I</div></div> <div><div><u>Location Description:</u></div><div>Item Location</div></div>				
NOTE: Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill.				
NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent.				
<u>FIRE PROTECTION INSTALLATION</u>				
Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings and datasheets.				
<u>FIRE HOSE REELS</u>				
1	30m fire hose reel including pro-rata cost for 50mm connecting pipework from the fire reticulation main including 25 diameter drop pipe to hose reel and breakins, fittings, pipework, hanging/fixing materials, finished paintwork, pressure gauge, etc., as per detail on tender drawings	No	5	
	I 5			
<u>PIPEWORK</u>				
<u>Supply and install medium grade, seamless galvanized mild steel pipework c/w pipe supports and accessories as specified and shown on the drawings</u>				
2	32mm diameter	m	65	
	I 65			
3	25mm diameter	m	25	
	I 25			
Carried to Collection			R	
Section No. 5				
Price List No. 3				
Part 3 - Fire Protection Installation				
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Item		Unit	Quantity	Rate	Amount
<u>HDPE SITE RETICULATION</u>					
<u>Supply and install HDPE piping complete with all ancillaries and appurtenancies for a complete installation</u>					
4	80mm diameter	m	220		
	I 220				
5	32mm diameter	m	65		
	I 65				
6	Excavation of trench and back filling with imported material	m	220		
	I 220				
<u>Extra Over for Fittings</u>					
7	25mm diameter	No	25		
	I 25				
8	32mm diameter	No	25		
	I 25				
9	80mm diameter	No	25		
	I 25				
<u>Tees and reducing tees</u>					
<u>Galvanised</u>					
10	80 x 80 x 32mm	No	20		
	I 20				
11	32 x 32 x 32mm	No	20		
	I 20				
12	32 x 25 x 32mm	No	10		
	I 10				
13	25 x 25 x 25mm	No	12		
	I 12				
<u>HDPE</u>					
14	32mm diameter	No	20		
	I 20				
15	80mm diameter	No	20		
	I 20				
<u>PORTABLE FIRE EXTINGUISHERS</u>					
<u>Supply and install fire extinguishers complete as specified</u>					
16	4,5 kg DCP fire extinguishers complete with backboard mounted as required	No	25		
	I 25				
Carried to Collection				R	
Section No. 5					
Price List No. 3					
Part 3 - Fire Protection Installation					

Item		Unit	Quantity	Rate	Amount
17	5kg kg carbon dioxide extinguishers in weatherproof polycarbonate cabinet complete with backboard mounted as required	No	2		
	I 2				
18	9 kg DCP fire extinguishers complete with backboard mounted as required	No	1		
	I 1				
	<u>Fire hose reel cabinets</u>				
19	Supply and install weather proof steel cabinets for fire hose reels & 2 x fire extinguishers	No	5		
	I 5				
	<u>STATUTORY FIRE SIGNAGE</u>				
	<u>Supply and install photo luminescent fire and evacuation signage as described below and as per the tender drawings:</u>				
	All signed to be framed in the natural anodized aluminium frame with mitred corner and concealed elbow joints.				
	All wall mounted fire and evacuation signs to be fixed with concealed screws and no double sided tape will be permitted for the mounting of the signs.				
	All suspended fire and evacuation signs to be hung from a steel cables or metal chains.				
	All signage to be a minimum 190mm size. And Photoluminescent				
	All fire and evacuation signs to be SANS 1186-1, 1186-3 and 1186-5 approved, and also to bear the SANS stamp of approval.				
20	E1/E2	No	10		
	I 10				
21	E2	No	10		
	I 10				
22	E3	No	10		
	I 10				
23	F4/5/6	No	10		
	I 10				
	<u>HYDRANTS, VALVES ETC.</u>				
24	100mm Tamper proof "Double - Booster" hydrant valve	No	5		
	I 5				
25	Provide 1200m x 80mm galvanised piping riser	No	5		
	I 5				
26	Provide hydrants with 15MPA concrete anchors	No	5		
	I 5				
	Carried to Collection			R	
	Section No. 5				
	Price List No. 3				
	Part 3 - Fire Protection Installation				

Item		Unit	Quantity	Rate	Amount
	<u>Site reticulation</u>				
	<u>Supply and install HDPE piping complete with all ancillaries and appurtenancies for a complete installation</u>				
27	80mm	m	220		
	I 220				
28	32mm	m	45		
	I 45				
	<u>Water tanks and pumps</u>				
	<u>Booster fire pumps</u>				
29	2.0l/s @ 850kPa Electrically Driven Primary Fire Pumps, one primary & one standby including a Jockey pump and all necessary suction / delivery pipe-work, valves, hanging material, control equipment, etc.	No	2		
	I 2				
30	5.5l/s @ 450kPa Electrically Driven Primary Domestic water Pumps, one primary & one standby including all necessary suction / delivery pipe-work, valves, hanging material, control equipment, etc.	No	2		
	I 2				
31	65mm Tank in-fill pipe-work including all necessary valves, boosters etc.	m	40		
	I 40				
32	10m³ Jojo tank or equally approved complete with flanges, ball valves, as per tender drawings. The tank should be so fitted with level controllers that allows for separation of the domestic water and the fire fire water using levels strategy. The tank should have a access opening to allow for servicing	No	4		
	I 4				
33	Pump motor control for a complete automatic operation of the system	Sum	1		
	I 1				
34	Electrical cabling between auto start arrangement, float level indicators, in- ball valves and pump room control panel, etc.	Sum	1		
	I 1				
35	300L Expansion Pressure tank	No	1		
	I 1				
	Carried to Collection			R	
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Part 3 - Fire Protection Installation

Item	Unit	Quantity	Rate	Amount
<u>SECTION NO. 5</u> <u>FIRE PROTECTION AND MECHANICAL</u> <u>PRICE LIST NO. 4</u> <u>Part 9- Wet Services Installation</u> <u>Key:</u> <u>Location Description:</u> I Item Location				
NOTE: Tenderers are advised to study the "Model Preambles for Trades 2017" before pricing this bill. NOTE: The use of trade names simply serves to indicate a standard acceptable to the Principal Agent. Any other brand may be used with prior written approval of the Principal Agent. <u>WET SERVICES INSTALLATION</u> <u>The supply, delivery, installation and commissioning of equipment as shall be detailed in this schedule. Tenderers are referred to The Technical specification for the Domestic Hot and Cold Water.</u> <u>PE-Xa: Cross-linked Polyethylene Piping Cross-linked Polyethylene Water Piping in accordance with DIN 16892 with thermal memory effect. Piping shall be installed complete with short lengths, cutting, plain couplings and jointing strictly in accordance with the Manufacturer's instructions, support brackets etc.</u> <u>(Including hangers, brackets, jointing, joining connectors, etc. Piping to be extruded complete with colour coding as per Gauteng DID Specifications)</u>				
1	15mm Diameter	m	90	
	I 90			
2	22mm Diameter	m	15	
	I 15			
3	28mm Diameter	m	110	
	I 110			
4	35mm Diameter	m	110	
	I 110			
5	80mm Diameter	m	245	
	I 245			
Carried to Collection			R	
Section No. 5				
Price List No. 4				
Part 9- Wet Services Installation				

Item		Unit	Quantity	Rate	Amount
	<u>Bends:</u>				
	<u>(Including hangers, brackets, jointing, joining connectors, etc. Piping to be extruded complete with colour coding as per Gauteng DID Specifications)</u>				
6	15mm Diameter	No	80		
	l 80				
7	22mm Diameter	No	20		
	l 20				
8	28mm Diameter	No	10		
	l 10				
9	35mm Diameter	No	10		
	l 10				
10	80mm Diameter	No	20		
	l 20				
	<u>Tees:</u>				
	<u>Including hangers, brackets, jointing, joining connectors, etc. Piping to be extruded complete with colour coding as per Gauteng DID Specifications)</u>				
11	15mm Diameter	No	5		
	l 5				
12	22mm Diameter	No	5		
	l 5				
13	28mm Diameter	No	5		
	l 5				
14	35mm Diameter	No	5		
	l 5				
15	80mm Diameter	No	15		
	l 15				
	<u>Reducers:</u>				
	<u>(Including hangers, brackets, jointing, joining connectors, etc. Piping to be extruded complete with colour coding as per Gauteng DID Specifications)</u>				
16	22 x 15mm Diameter	No	15		
	l 15				
17	28 x 15mm Diameter	No	10		
	l 10				
18	35 x 15mm Diameter	No	10		
	l 10				
19	80 x 35mm Diameter	No	20		
	l 20				
	Carried to Collection			R	
	Section No. 5				
	Price List No. 4				
	Part 9- Wet Services Installation				

Item		Unit	Quantity	Rate	Amount
	<u>Isolating valves:</u>				
	<u>Ball type Isolating Valve complete with couplings to piping, etc., all strictly in accordance with Manufacturer's instructions and complying to SANS 1056 - 3</u>				
20	15mm Diameter	No	40		
	I 40				
21	22mm Diameter	No	5		
	I 5				
22	28mm Diameter	No	10		
	I 10				
23	35mm Diameter	No	5		
	I 5				
24	80mm Diameter	No	5		
	I 5				
	<u>Drainage:</u>				
25	110mm	m	110		
	I 110				
26	50mm	m	185		
	I 185				
	<u>Extra over uPVC pipes for fittings</u>				
27	50mm Bend	No	50		
	I 50				
28	50mm Access bend	No	20		
	I 20				
29	50mm access junction	No	10		
	I 10				
30	110mm Pan connector	No	15		
	I 15				
31	110mm Bend	No	10		
	I 10				
32	110mm Access bend	No	8		
	I 8				
33	110mm Access junction	No	8		
	I 8				
34	Floor drain	No	4		
	I 4				
	<u>Electric geyser rated 3Kw</u>				
35	50 Litre	No	1		
	I 1				
	Carried to Collection			R	
	Section No. 5				
	Price List No. 4				
	Part 9- Wet Services Installation				

Item		Unit	Quantity	Rate	Amount
	<u>Hot water hydro boils</u>				
36	15 litre	No	5		
	I 5				
Carried to Collection				R	
Section No. 5					
Price List No. 4					
Part 9- Wet Services Installation					

PRICE LIST NO. 4
Part 9- Wet Services Installation
COLLECTION

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5-16

Amount

Carried To Section Summary

R

Section No. 5
Price List No. 4
Part 9- Wet Services Installation

			Amount
<u>SECTION NO. 5</u>			
<u>FIRE PROTECTION AND MECHANICAL</u>			
<u>SECTION SUMMARY</u>			
Price List No.		Page	
1	Comissioniong & Do Comissioning and documentation	5-1	
2	Part 2- Air Condit Comissioning and documentation	5-7	
3	Part 3 - Fire Protection Installation	5-12	
4	Part 9- Wet Services Installation	5-17	
Carried to Final Summary			
Section No. 5 SECTION SUMMARY			

Section No.		Page	Amount
<u>FINAL SUMMARY</u>			
1	PRELIMINARIES AND GENERAL	1-23	
2	BUILDERS WORK	2-53	
3	EXTERNAL WORKS	3-6	
4	ELECTRICAL INSTALLATION	4-16	
5	FIRE PROTECTION AND MECHANICAL	5-18	
	ADD: CONTINGENCIES		
	Provide 10% for Contingencies to be spent in whole or in part or be deducted in its entirety at the discretion of the Agent/Representative		
	SubTotal before VAT		
	ADD VAT @ 15%:		
	Carried to Tender	R	
	FINAL SUMMARY		

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