

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

Item No		Amount
	<p><u>BILL NO. 1</u> <u>PRELIMINARIES AND GENERALS</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</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>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>The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</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 General Preambles</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 1 PRELIMINARIES AND GENERAL</p>	<div>R</div>

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	<p>The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</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>PRICING OF PRELIMINARIES</u></p> <p>Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Interpretation (A1-A7)</u></p> <p>1 Clause 1.0 - Definitions and interpretation</p> <p>Pricing of bills of quantities</p> <p>The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement. Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities</p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained</p> <p>Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p> <p>Abbreviated descriptions</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 1 PRELIMINARIES AND GENERAL</p>	<div></div> <div></div> <div></div>
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	<p>The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice</p> <p>Legal status of contractor</p> <p>If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> 1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement 2. These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons 3. The contractor shall not alter its composition or legal status without the prior written consent of the employer <p>F:..... V:..... T:.....</p>		
2	<p>Clause 2.0 - Law, regulations and notices</p> <p>NHBRC levies</p> <p>The employer shall allow for and pay any levies required by the National Home Builders Registration Council (NHBRC). The contractor warrants that he is registered and will maintain registration with the NHBRC for the duration of this agreement [2.1]</p> <p>F:..... V:..... T:.....</p>		
3	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>		
4	<p>Clause 4.0 - Cession and assignment</p> <p>F:..... V:..... T:.....</p>		
5	<p>Clause 5.0 - Documents</p> <p>Value Added Tax</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)</p>		
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	<p>Priced document as specification</p> <p>Clause 5.4 is deemed to be deleted</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any.</p> <p>Electronic issue of drawings</p> <p>All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]</p> <p>F:..... V:..... T:.....</p>		
6	<p>Clause 6.0 - Employer's agents</p> <p>Delegated authority</p> <p>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:</p> <p>1. <u>Architect</u></p> <p>1.1 Duties [6.2] :</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the works</p> <p>1.2 Contract instructions [6.2; 17.1] :</p> <p>1.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p> <p>1.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>1.2.3 The site [13.0]</p> <p>1.2.4 Compliance with the law, regulations and bylaws [2.1]</p> <p>1.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p>		
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	<p>1.2.7 Removal or re-execution of work</p> <p>1.2.8 Removal or substitution of any materials and goods</p> <p>1.2.9 Protection of the works</p> <p>1.2.10 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>1.2.11 Rectification of defects [21.2]</p> <p>1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>1.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>1.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>1.2.15 Work by direct contractors [16.0]</p> <p>1.2.16 On suspension or termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0] ?</p> <p>2. <u>Quantity surveyor</u></p> <p>2.1 Duties [6.2] :</p> <p>The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works</p> <p>2.2 Contract instructions [6.2; 17.1] :</p> <p>2.2.1 No contract instructions delegated to the quantity surveyor ?</p> <p>3. <u>Civil and structural engineer</u></p> <p>3.1 Duties [6.2] :</p> <p>The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works</p> <p>3.2 Contract instructions [6.2; 17.1] :</p> <p>3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p>		
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	<p>3.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>3.2.3 The site [13.0]</p> <p>3.2.4 Compliance with the law, regulations and bylaws [2.1]</p> <p>3.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>3.2.7 Removal or re-execution of work</p> <p>3.2.8 Removal or substitution of any materials and goods</p> <p>3.2.9 Protection of the works</p> <p>3.2.10 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>3.2.11 Rectification of defects [21.2]</p> <p>3.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>3.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p>		
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	<p>4. <u>Mechanical engineer</u></p> <p>4.1 Duties [6.2] :</p> <p>The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions</p> <p>4.2 Contract instructions [6.2; 17.1] :</p> <p>4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p> <p>4.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>4.2.3 Compliance with the law, regulations and bylaws [2.1]</p> <p>4.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>4.2.6 Removal or re-execution of work</p> <p>4.2.7 Removal or substitution of any materials and goods</p> <p>4.2.8 Protection of the works</p> <p>4.2.9 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>4.2.10 Rectification of defects [21.2]</p> <p>4.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>4.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>5. <u>Electrical engineer</u></p>		
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	<p>5.1 Duties [6.2] :</p> <p>The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions</p> <p>5.2 Contract instructions [6.2; 17.1] :</p> <p>5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p> <p>5.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>5.2.3 Compliance with the law, regulations and bylaws [2.1]</p> <p>5.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>5.2.6 Removal or re-execution of work</p> <p>5.2.7 Removal or substitution of any materials and goods</p> <p>5.2.8 Protection of the works</p> <p>5.2.9 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>5.2.10 Rectification of defects [21.2]</p> <p>5.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>5.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p>		
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	<p>6. <u>Wet services engineer</u></p> <p>6.1 Duties [6.2] :</p> <p>The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the works</p> <p>6.2 Contract instructions [6.2; 17.1] :</p> <p>6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p> <p>6.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>6.2.3 Compliance with the law, regulations and bylaws [2.1]</p> <p>6.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>6.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>6.2.6 Removal or re-execution of work</p> <p>6.2.7 Removal or substitution of any materials and goods</p> <p>6.2.8 Protection of the works</p> <p>6.2.9 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>6.2.10 Rectification of defects [21.2]</p> <p>6.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>6.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>7. <u>Fire consultant</u></p> <p>7.1 Duties [6.2] :</p> <p>The fire consultant is responsible for all aspects of rational fire design and quality inspection of the works</p> <p>7.2 Contract instructions [6.2; 17.1] :</p>		
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	<p>7.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement</p> <p>7.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works</p> <p>7.2.3 Compliance with the law, regulations and bylaws [2.1]</p> <p>7.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works</p> <p>7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>7.2.6 Removal or re-execution of work</p> <p>7.2.7 Removal or substitution of any materials and goods</p> <p>7.2.8 Protection of the works</p> <p>7.2.9 Making good physical loss and repairing damage to the works [23.2.2]</p> <p>7.2.10 Rectification of defects [21.2]</p> <p>7.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>7.2.12 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>8. <u>Health and safety consultant</u></p> <p>8.1 Duties [6.2] :</p> <p>The health and safety consultant is responsible for all aspects of health and safety of the works. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works. He shall:</p> <p>8.1.1 Act as the employer's agent in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended</p> <p>8.1.2 Prepare and update the health and safety specification for the works</p> <p>8.1.3 Agree with the contractor the health and safety plan for the works</p>		
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	<p>8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations</p> <p>8.1.5 Stop the execution of the works where the agreed specification or plan is not adhered to?</p> <p>F:..... V:..... T:.....</p>		
7	<p>Clause 7.0 - Design responsibility</p> <p>F:..... V:..... T:.....</p> <p><u>Insurances and securities (A8-A11)</u></p>		
8	<p>Clause 8.0 - Works risk</p> <p>F:..... V:..... T:.....</p>		
9	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>		
10	<p>Clause 10.0 - Insurances</p> <p>F:..... V:..... T:.....</p>		
11	<p>Clause 11.0 - Securities</p> <p>Guarantee for payment</p> <p>The employer shall provide to the contractor a guarantee for payment in the amount of(N/A).....Rand (R....(N/A).....) [11.5.1]. The contractor shall consequently waive his lien or right of continuing possession of the works [11.10]</p> <p>Extension of waiver of lien</p> <p>The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]</p> <p>F:..... V:..... T:.....</p> <p><u>Execution (A12 - A17)</u></p>		
12	<p>Clause 12.0 - Obligations of the parties</p>		
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	<p>Office accommodation</p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> <p>Notice board</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]</p> <p>Statutory and other notices</p> <p>The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard</p> <p>It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>F:..... V:..... T:.....</p>		
13	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>		
14	<p>Clause 14.0 - Nominated subcontractors</p> <p>F:..... V:..... T:.....</p>		
15	<p>Clause 15.0 - Selected subcontractors</p> <p>F:..... V:..... T:.....</p>		
16	<p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <ol style="list-style-type: none"> 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 		
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	<p>2. Allow the use of personnel welfare facilities, where provided</p> <p>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</p> <p>4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1]</p> <p>F:..... V:..... T:.....</p>		
17	<p>Clause 17.0 - Contract instructions</p> <p>Site instructions</p> <p>Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor ?</p> <p>F:..... V:..... T:.....</p> <p><u>Completion (A18 - A24)</u></p>		
18	Clause 18.0 - Interim completion		
19	<p>Clause 19.0 - Practical completion</p> <p>F:..... V:..... T:.....</p>		
20	<p>Clause 20.0 - Completion in sections</p> <p>F:..... V:..... T:.....</p>		
21	<p>Clause 21.0 - Defects liability period and final completion</p> <p>F:..... V:..... T:.....</p>		
22	<p>Clause 22.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>		
23	<p>Clause 23.0 - Revision of the date for practical completion</p> <p>Substitution of materials and goods</p> <p>The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2]</p>		
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24	<p>Clause 24.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><u>Payment (A25 - A27)</u></p>		
25	<p>Clause 25.0 - Payment</p> <p>Prices submitted</p> <p>Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing</p> <p>F:..... V:..... T:.....</p>		
26	<p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>Fluctuations in costs</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5]</p> <p>Tenant installation/user requirements delayed</p> <p>There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to practical completion</p> <p>Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works</p> <p>The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission ?</p> <p>Cost of claims</p> <p>All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6 & 7] from making a determination on costs</p>		
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	<p>Claims from subcontractors</p> <p>The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]</p> <p>F:..... V:..... T:.....</p>	
27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p>	
	<p>Suspension and termination (A28 - A29)</p>	
28	<p>Clause 28.0 - Suspension by the contractor</p> <p>F:..... V:..... T:.....</p>	
29	<p>Clause 29.0 - Termination</p> <p>F:..... V:..... T:.....</p>	
	<p>Dispute resolution (A30)</p>	
30	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p>	
31	<p>Agreement</p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>F:..... V:..... T:.....</p>	
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32	<p><u>Contract data</u></p> <p>Tenderer's selections</p> <p>Before submission of his tender the contractor is to complete the tenderer's selections in the contract data</p> <p>F:..... V:..... T:.....</p> <p><u>SECTION B: GENERAL PRELIMINARIES</u></p> <p><u>Definitions and interpretation (B1)</u></p>	
33	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	
34	<p>Clause 1.2 - Interpretation</p> <p>F:..... V:..... T:.....</p> <p><u>Documents (B2)</u></p>	
35	<p>Clause 2.1 - Checking of documents</p> <p>F:..... V:..... T:.....</p>	
36	<p>Clause 2.2 - Provisional bills of quantities</p> <p>Multiple procurement</p> <p>These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums</p> <p>F:..... V:..... T:.....</p>	
37	<p>Clause 2.3 - Availability of construction information</p> <p>F:..... V:..... T:.....</p>	
38	<p>Clause 2.4 - Ordering of materials and goods</p> <p>F:..... V:..... T:.....</p>	
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50	<p>Clause 5.3 - Technical meetings</p> <p>F:..... V:..... T:.....</p> <p><u>Samples, shop drawings and manufacturer's instructions (B6)</u></p>		
51	<p>Clause 6.1 - Samples of materials</p> <p>F:..... V:..... T:.....</p>		
52	<p>Clause 6.2 - Workmanship samples</p> <p>F:..... V:..... T:.....</p>		
53	<p>Clause 6.3 - Shop drawings</p> <p>F:..... V:..... T:.....</p>		
54	<p>Clause 6.4 - Compliance with manufacturer's instructions</p> <p>F:..... V:..... T:.....</p> <p><u>Deposits and fees (B7)</u></p>		
55	<p>Clause 7.1 - Deposits and fees</p> <p>F:..... V:..... T:.....</p> <p><u>Temporary services (B8)</u></p>		
56	<p>Clause 8.1 - Water</p> <p>F:..... V:..... T:.....</p>		
57	<p>Clause 8.2 - Electricity</p> <p>F:..... V:..... T:.....</p>		
58	<p>Clause 8.3 - Ablution and welfare facilities</p> <p>F:..... V:..... T:.....</p>		
59	<p>Clause 8.4 - Communication facilities</p> <p>F:..... V:..... T:.....</p> <p><u>Prime cost amounts (B9)</u></p>		
60	<p>Clause 9.1 - Responsibility for prime cost amounts</p>		
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	<u>Attendance on subcontractors (B10)</u>		
61	Clause 10.1 - General attendance F:..... V:..... T:.....		
62	Clause 10.2 - Special attendance <u>General (B11)</u>		
63	Clause 11.1 - Protection of the works F:..... V:..... T:.....		
64	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....		
65	Clause 11.3 - Security of the works F:..... V:..... T:.....		
66	Clause 11.4 - Notice before covering work F:..... V:..... T:.....		
67	Clause 11.5 - Disturbance Disturbance All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever. F:..... V:..... T:.....		
68	Clause 11.6 - Environmental disturbance Controlling all forms of pollution The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc		
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	<p>The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works</p> <p>Environmental management plan</p> <p>The employer has prepared an environmental management plan (EMP). The contractor shall price opposite this item for compliance with all the requirements of such EMP.</p> <p>F:..... V:..... T:.....</p>		
69	<p>Clause 11.7 - Works cleaning and clearing</p> <p>F:..... V:..... T:.....</p>		
70	<p>Clause 11.8 - Vermin</p> <p>F:..... V:..... T:.....</p>		
71	<p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>		
72	<p>Clause 11.10 - Tenant installations</p> <p>F:..... V:..... T:.....</p>		
73	<p>Clause 11.11 - Advertising</p> <p>F:..... V:..... T:.....</p>		
	<p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p>		
74	<p>Warranties for materials and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract</p> <p>The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so</p> <p>The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor</p> <p>F:..... V:..... T:.....</p>		
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75	<p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer</p> <p>F:..... V:.....T:.....</p>		
76	<p>Cooperation of the contractor for cost management</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget</p> <p>F:..... V:.....T:.....</p>		
77	<p>Overloading</p> <p>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense</p> <p>F:..... V:.....T:.....</p>		
78	<p>Propping of floors below</p> <p>The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p> <p>F:..... V:.....T:.....</p>		
79	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:.....T:.....</p>		
80	<p>Health and safety</p>		
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	<p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. 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 reasonable provisions of the aforementioned health and safety specification [2.1]</p> <p>The contractor shall:</p> <ol style="list-style-type: none"> 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Cooperate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification <p>F:..... V:..... T:.....</p>	
81	<p>Green star building certification</p> <p>F:..... V:..... T:.....</p>	
	<p>C10 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification of the DHET that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31.0 or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 1 PRELIMINARIES AND GENERAL</p>	<p style="text-align: right;">R</p>

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82	<p>C10.1 AWARENESS CHAMPION</p> <p>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>		
83	<p>C10.2 AWARENESS WORKSHOPS</p> <p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification.</p> <p>F:..... V:..... T:.....</p>		
84	<p>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>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.</p> <p>F:..... V:..... T:.....</p>		
85	<p>C10.4 ACCESS TO CONDOMS</p> <p>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.</p> <p>F:..... V:..... T:.....</p>		
86	<p>C10.5 MONITORING</p> <p>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.</p> <p>F:..... V:..... T:.....</p>		
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	<p>C11 OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>F:..... V:.....T:.....</p>	
87	<p>C12 REPORTING BY CONTRACTOR</p> <p>The contractor is required to complete the attached Contractors Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided.</p> <p>F:..... V:.....T:.....</p>	
88	<p>C13 LOCAL LABOUR AND LOCAL BUILDING MATERIALS</p> <p>It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.</p>	
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89	<p>C14 LOCAL BUILDING MATERIALS</p> <p>Preference shall be given to the supply of materials produced or manufactured in the Western Cape Province provided that:</p> <p>(a) The availability of such materials shall not adversely affect the desired progress of the specific works.</p> <p>(b) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof.</p> <p>F:..... V:.....T:.....</p>		
90	<p><u>C15 DEMOLITION WORK</u></p> <p>(Construction Regulation 12) The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.</p> <p>F:..... V:.....T:.....</p>		
91	<p><u>C16 CARTING OF WATER FOR CONSTRUCTION</u></p> <p>The contractor is to make provision to cart water onto site as there maybe no sufficient water available on site.</p> <p>F:..... V:.....T:.....</p>		
92	<p><u>C17 COVID 19 PANDEMIC AND THE REGULATIONS</u></p> <p>This specification is developed with the objective to Manage Health and Safety on the construction site with the emphasis on Health and preventing the spread and infection of and with the COVID-19 virus.</p> <p>This Specification is additional to the site-specific H&S Specification and do not reduce or change the contractor's responsibility regarding Health and Safety management on site.</p> <p>Due to the rapid changing situation this Specification shall be updated and amended as more information and other more conclusive measures are identified and verified.</p> <p>This specification is subject to all relevant legislative notices regarding the COVID -19 Pandemic and the regulations issued by the South African Government.</p> <p>F:..... V:.....T:.....</p>		
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93	<p>Broad based black economic empowerment (BBBEE)</p> <p>Tenders submitted will be evaluated taking into account their empowerment rating</p> <p>The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works</p> <p>The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F:..... V:.....T:.....</p>		
94	<p>Advertising rights</p> <p>The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement</p> <p>F:..... V:.....T:.....</p>		
95	<p>Confidentiality</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works</p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the employer</p> <p>F:..... V:.....T:.....</p>		
96	<p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer</p> <p>The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:.....T:.....</p>		
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SUMMARY OF CATEGORIES

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Category : Value R.....

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>BUILDING WORKS</u></p> <p><u>ALTERATIONS</u></p> <p><u>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</u></p> <p><i>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 102 for JBCC CPAP purposes</i></p> <hr/> <p><u>Supplementary Preambles</u></p> <p><u>Materials from the alterations</u></p> <p>Materials recovered from the alterations (except where described as to be re-used or handed over to the Representative/Agent) will become the property of the Contractor, such materials shall not be re-used in new work without written permission from the Representative/Agent</p> <p>Materials described as "removed" shall be removed from the site immediately</p> <p>Materials described as "handed over to the Representative/ Agent" shall be carefully dismantled where necessary, neatly stored under cover on the site where directed and protected from damage, until required</p> <p>Materials described as "set aside for re-use" shall be carefully dismantled where necessary, cleaned, neatly stored under cover and protected from damage until required for re-use. Any damage caused to such materials during removal, storage or refixing shall be made good at the Contractor's expense</p>			
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	<p><u>Disposal of debris etc</u></p> <p>The Contractor shall be responsible for the removal from the site of all materials, debris and rubbish resulting from the alterations</p> <p><u>Forming new openings or altering openings in existing walls</u></p> <p>Where new openings are formed or openings altered in existing walls, the wall above the opening shall be broken out and a new brick, in-situ concrete or prestressed concrete lintel inserted, complete with all necessary reinforcement, formwork, turning piece, etc. the jambs and portions of openings as described shall be built up with new brickwork sand stonework properly toothed and bonded to existing, cavities of hollow walls shall be closed where necessary and finishes shall be made good all round and into reveals</p> <p><u>Building up openings</u></p> <p>Where existing openings are given in number as built up, the existing surfaces all round shall be prepared as necessary, brickwork or sandstone brickwork properly toothed and bonded to existing, wedged up to underside of existing lintel and finishes shall be made good on both sides.</p> <p><u>General</u></p> <p>All demolitions work is to be carried out in accordance with the local by-laws and to requirements of the Local Health Authorities.</p> <p>At completion of the works, all rooms should be cleaned thoroughly (i.e floors, glazing, sanitary ware, etc).</p>			
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<u>TEMPORARY BARRICADES, SCREENS, ETC.</u>					
NOTE: The Contractor is advised that he/she will be held responsible for all damages howsoever caused, to ceiling brandering, wall and floor finishes, fittings, etc., inside the existing building where the existing roof sheeting has been removed for alterations, etc. and he/she must make good all damages at his own expense at the approval of the Principal Agent.					
1	Clean existing buildings to a sufficient state to enable the Architect to undertake a thorough and detailed inspection of the works before the work proceeds (total area of buildings - 36,000m2).		Item		
<u>REMOVAL OF EXISTING WORK</u>					
<u>Breaking up and removing unreinforced concrete:</u>					
2	100mm Thick apron	m ²	2		
<u>Taking out and remove doors, etc from existing pressed steel door frames.</u>					
3	Timber single leaf timber door size 813 x 2032mm high.	No	15		
4	Timber single leaf timber double door size 1444 x 2052mm high.	No	1		
<u>Take down and remove roofs, gutters, etc.:</u>					
5	15 x 300mm Fascia board screwed to roof timbers.	m	2		
<u>Taking out and removing sundry joinery work</u>					
6	Cupboard size overall 3000 x 968mm deep complete.	No	1		
<u>Hack up and remove wall and floor tiles including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes:</u>					
7	Ceramic floor tiles.	m ²	4		
8	Ceramic wall tiles.	m ²	6		
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cement</u></p> <p>Cement shall be Portland cement complying with the requirements of SANS Specification 471 or PC15 complying with SANS Specification 831.</p> <p><u>Aggregates</u></p> <p>Fine and coarse aggregates shall comply with the requirements of SANS Specification 1083. No aggregate shall be used until it has been approved. Samples having a mass of 25 Kg of the proposed aggregate may be required by the Principal Agent and/or Structural Engineer to be tested and such testing shall be conducted every three months of the concreting works or should the source of supply change.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the structural engineer. Testing of all concrete test cubes shall be done by the Independent Development Trust or by the laboratory so approved by the Director: Structural Engineering Services, in accordance with SANS STM 863 (Test cubes are measured separately).</p>			
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	<p>Bill No. 2</p> <p>CONCRETE, FORMWORK AND REINFORCEMENT</p>			

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	<p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated.</p> <p><u>"Foamcement " lightweight concrete</u></p> <p>"Foamcement" lightweight concrete is to have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm.</p> <p><u>"Celbeton" lightweight concrete</u></p> <p>"Celbeton" lightweight concrete is to have a density of 1000kg/m³ for the top 20mm and 480kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 30mm.</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid, etc. shall be deemed to be slabs not exceeding 255mm thick unless otherwise described by the Structural Engineer.</p> <p>Slabs and beams to remain propped for periods strictly in accordance with SANS 1200 G Clause 5.2.5.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT</p>			
			R	

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	<p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".</p> <p><u>NOTE:</u> Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 110 for JBCC CPAP purposes</p> <p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>15MPa/19mm Concrete in:</u></p>				
15	Aprons cast in panels on waterproofing.	m³	10		
	<u>REINFORCED CONCRETE</u>				
	<u>20MPa/19mm concrete</u>				
16	Ramps.	m³	1		
	<u>TEST CUBES</u>				
17	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	2		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
18	Surface beds, ramps, slabs to falls etc.	m²	89		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>				
19	10mm Joints not exceeding 300mm high or wide	m	10		
	<u>Saw cut joints</u>				
20	30 x 3mm Saw cut joints on top of concrete	m	10		
	Carried forward			R	
	Bill No. 2				
	CONCRETE, FORMWORK AND REINFORCEMENT				

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21	<p><u>STEEL REINFORCEMENT</u></p> <p><u>REINFORCEMENT (PROVISIONAL)</u></p> <p>(CPAP Work Group No. 114)</p> <p><u>Fabric reinforcement</u></p> <p>Type 193 fabric reinforcement in concrete surface beds, slabs, cavity wall, etc.</p> <p style="text-align: right;">m²</p>	40			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT</p>			R	

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>CEMENT MORTAR</u></p> <p>Cement mortar shall be composed of 6 parts (by volume) of sand and 1 part (by volume) of cement.</p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick.</p> <p><u>Hollow walls, etc.</u></p> <p>Descriptions of hollow walls shall be deemed to include wall ties and leaving every fifth perpend of the bottom course of the external skin open, as a weep hole.</p> <p><u>Reinforced brick lintels</u></p> <p>Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings, the lintel shall be continuous.</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour.</p>			
	Carried forward		R	
	Bill No. 3 MASONRY			

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	<p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>BLOCKWORK</u></p> <p><u>Concrete masonry units</u></p> <p>Blocks shall be either solid or hollow modular dense concrete masonry units in accordance with SANS Specification 1215, having compressive strengths as described.</p> <p><u>Blockwork</u></p> <p>Blockwork shall comply with SANS 0145 "Concrete Masonry Construction".</p> <p>Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.</p> <p><u>Standard complementary blocks</u></p> <p>Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary.</p> <p><u>DECORATIVE BLOCKS</u></p> <p>Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour.</p> <p><u>"APPROVED" MODULAR PRECAST CONCRETE WINDOW SURROUNDS</u></p> <p><u>General</u></p> <p>Window surrounds shall be built into brick walls and pointed all round on both sides with 10 x 10mm square recessed joints.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 3 MASONRY</p>			
			R	

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	<p>Prices shall include for building in as single units or combinations in patterns of two or more window units and for bedding solid all round in mortar and pointing.</p> <p><u>Note</u></p> <p>Aluminium infill windows, glazing and pointing with sealing compound are measured elsewhere.</p> <p><u>SAMPLES</u></p> <p>Samples of all masonry building units, shall consist of a minimum of 6 units.</p> <p><u>PAVINGS</u></p> <p><u>Quarry tiles, precast concrete, cement, terrazzo and similar tiles</u></p> <p>Tiles shall be of approved manufacture, well burnt or cured, and uniform and true in size, shape and colour.</p> <p><u>Preparation of concrete floor beds, slabs, etc. for pavings</u></p> <p>Concrete surfaces shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc. is dislodged and swept clean of all loose matter. Surfaces shall then be wetted and kept damp for at least six hours before slushing with 1:2 cement/sand and while still wet, pavings, etc. shall be laid on a 1:4 cement mortar bed not exceeding 25mm thick. Sand shall be clean, sharp river sand.</p> <p><u>Jointing of pavings</u></p> <p>Pavings, etc, shall, except for crazy paving, be laid with continuous joints in both directions.</p> <p><u>STONEWORK</u></p> <p><u>Slate, marble, granite, etc.</u></p> <p>Slate, marble, granite, etc. is to be best quality stone from an approved quarry, free from cracks and other defects and equal to samples to be submitted to and approved by the architect. Each stone is to hold its full size, square to the back and to be set on its natural quarry bed.</p>			
	<p style="text-align: right;">Carried forward</p>		R	
	<p>Bill No. 3 MASONRY</p>			

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	<p><u>Setting out</u></p> <p>Care shall be exercised in setting out the work, the preparation of templates and the checking of the detail drawings. All measurements shall be taken on site where necessary and the full size setting out of each course shall be done at the yard so as to ensure the proper fitting of each stone.</p> <p>Before putting any work in hand, the contractor is to submit to the architect and or engineer for his approval, details of the manner in which he proposes to set out the slabs and joints in all wall facings, pavings, sills, treads, etc together with samples of grain or pattern matching.</p> <p><u>Face labours</u></p> <p>Face labours are to match samples to be submitted to and approved by the architect.</p> <p>Arrises are to be clean and sharp except to treads and thresholds where they are to be slightly rounded.</p> <p><u>Bedding and jointing</u></p> <p>Slate, marble, granite and other floor paving and wall linings, are to be bedded solidly on the mortar thicknesses described and are to have tightly fitting butt joints unless otherwise stated.</p> <p>Where stonework is to be fixed with adhesive, the adhesive is to be "Approved" (mixed 20kg/5 litre) for external use or where white or light coloured marble is used, "Similar approved" for internal use or other approved. The contractor will be liable for any defects to the slate, marble and granite arising from the use of the adhesive.</p> <p>Where soffit linings are suspended the suspension system must be concealed and must be submitted to the architect for approval before work commences.</p> <p>Where tolerance screws are required these are to be stainless steel expanding bolt type with matching stainless steel bracket and PVC clad dowel with nuts and washers, etc.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 3 MASONRY</p>			
			R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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<p><u>Damaged work</u></p> <p>Any damaged stonework shall be discarded and replaced at the contractor's expense. No touching up will be permitted except in exceptional cases, with the architect's consent.</p> <p><u>Descriptions</u></p> <p>Descriptions of stonework shall be deemed to include preparatory work, labours to backs, beds and joints, templates, mortices for bolts, etc. and for hoisting and setting in position, bedding, jointing and pointing, casing and protecting from injury and cleaning down at completion.</p> <p>Descriptions of recessed pointing to stonework shall be deemed to be square recessed, hollow recessed, weathered pointing, etc.</p> <p><u>PROTECT AND CLEAN DOWN FACE BRICKWORK, STONWORK, ETC.</u></p> <p>All face brickwork, stonework, tiling, etc. liable to damage shall be covered-up and protected during the progress of the remaining works as no claim whatsoever shall be entertained in this regard . Any damage so done shall be made good at the expense of the contractor and to the satisfaction of the Principal Agent.</p> <p><u>BRICKWORK IN SUPERSTRUCTURE</u></p> <p><u>Brickwork of NFX bricks (14 MPA nominal compressive strength) in class I mortar</u></p>					
22	Half brick walls	m ²	3		
23	Half brick walls in beamfilling	m ²	2		
24	One brick walls	m ²	1		
25	One and a half brick walls	m ²	1		
<p><u>BRICKWORK SUNDRIES</u></p> <p><u>Brickwork reinforcement</u></p>					
26	75mm Wide reinforcement built in horizontally	m	10		
Carried forward				R	
<p>Bill No. 3 MASONRY</p>					

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27	150mm Wide reinforcement built in horizontally	m	8		
	<u>Concrete prestressed fabricated lintels</u>				
28	110 x 70mm Lintels in lengths not exceeding 3m	m	2		
	<u>Turning pieces</u>				
29	230mm Wide turning piece to lintels, etc.	m	2		
	<u>FACE BRICKWORK</u>				
	Facings in approved face bricks (FBX) of colour and texture to match existing with a PC Amount of R7000,00 per thousand bricks delivered to site (excluding vat) pointed with recessed horizontal and vertical joints				
30	Extra over loadbearing brickwork for face brickwork	m ²	2		
31	Extra over brickwork for brick-on-edge header course lintel	m	30		
32	Fair cutting and fitting around pipe not exceeding 50mm diameter	No	10		
33	Fair cutting and fitting around pipe exceeding 50mm and not exceeding 100mm diameter	No	4		
34	230mm wide brick-on-edge snapped sills set sloping and slightly projecting	m	30		
	<u>BUILDER'S WORK IN CONNECTION WITH ELECTRICAL INSTALLATION, ETC.</u>				
35	Cut chase vertically or horizontally in brickwork not exceeding 75mm wide for single conduit and make good.	m			
36	110mm Deep recess for and building in of distribution board not exceeding size 600 x 900mm and make good.	No			
Carried forward				R	
Bill No. 3 MASONRY					

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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>NOTE:</u> Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 120 for JBCC CPAP purposes</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p>Preparation of substrata: Screeded roof surfaces shall be firm, dry and clean. Corners shall be coved or arris rounded. All surfaces to receive Derbigum are to be fully primed with a solvent-based bitumen primer. Timber boarded roof surfaces shall be dry, clean and even. All internal angles are to receive a timber triangular fillet. Corners and edges shall be arris rounded.</p> <p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p>One layer of 250 micron green polyethylene damp-proof membrane (SANS 952-1985 Type C) sealed at laps with PVC self-adhesive tape</p>			
37	Under aprons, etc.	m ²	109
<p><u>JOINT SEALANTS, ETC.</u></p>			
<p>Carried forward</p>			R
<p>Bill No. 4 WATERPROOFING</p>			

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38	<u>Miscellaneous sealing compounds</u> Rake out 6mm wide joint in tiling and fill with approved polysulphide sealing compound	m	10		
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 4 WATERPROOFING</p>			R	

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**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>WOOD PRESERVATIVE</u></p>			
	Carried forward		R	
	Bill No. 5 CARPENTRY AND JOINERY			

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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	<u>Sawn softwood (Grade 4):</u>				
39	Two coats carbolinium wood preservative applied hot on exposed timbers at eaves.	m ²	13		
	<u>FASCIA AND BARGE BOARDS, ETC.</u>				
	<u>Tempered fibre cement:</u>				
40	15 x 150mm Fascia and barge board countersunk screwed to steel rafters (elsewhere) with one brass screw at maximum 750mm centres and joined with and including standard aluminium halfround cover strips at all joints.	m	12		
	<u>DOORS, ETC</u>				
	<u>Semi-solid flush doors:</u>				
	<u>40mm Thick heavy duty door including 120 x 50mm kiln dried softwood top and bottom rails with hardwood concealed edge strips finished on both sides with commercial veneer hung on steel frames (frames elsewhere):</u>				
41	Door size overall 900 x 2032mm high.	No	15		
	<u>Wrought meranti doors hung on steel frame suitable for painting, and hung to pressed steel frames (elsewhere measured)</u>				
42	44mm Framed and ledged batten door 900 x 2032mm high of 44 x 150mm top rail and stiles, 150 x 16mm thick middle ledges and braces as well as 230 x 22mm bottom rail with 22mm V-jointed boarding one side and filled in at the back with 6mm plywood panel veneer to match door, and including rebates all around.	No	2		
	<u>FIRE DOORS</u>				
43	Class B double fire door size 1444 x 2032mm high in accordance with SABS 1253 including pressed steel door frame to suit one brick wall complete with hoop iron anchors welded to frame, one adjustable stainless steel striking plate suitable for mortice lock, three rubber shock absorbers in rebate and one and a half pairs of 100mm heavy duty flanged hinges including preparing frame for door closer.	No	1		
	Carried forward			R	
	Bill No. 5 CARPENTRY AND JOINERY				

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<p>Section No. 2</p> <p>Bill No. 5</p> <p>CARPENTRY AND JOINERY</p> <p><u>COLLECTION PAGE</u></p> <p>Total Brought Forward from Page No.</p> <p>Total Brought Forward from Page No.</p> <p>Carried Forward to Summary of Section No.</p> <p>Bill No. 5</p> <p>CARPENTRY AND JOINERY</p>	<p>Page No</p> <p>50</p> <p>51</p>		<p>Amount R</p> <p>-----</p> <p>-----</p> <p>R</p>	
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>JOINERY FITTINGS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p>			
Carried forward			R
Bill No. 6			
JOINERY FITTINGS			

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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	<p><u>Descriptions</u></p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing</p> <p>Descriptions of floors, ceilings, joinery, etc shall be deemed to include for all square cutting</p> <p>Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc shall be deemed to include for angles, ends, etc</p> <p><u>NOTE:</u> Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <hr style="width: 20%; margin-left: 0;"/>			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 6 JOINERY FITTINGS</p>		<p style="text-align: right;">R</p>	

	<p><u>COUNTERS, CUPBOARD AND WORKTOPS</u></p> <p><u>NOTE:</u> <i>The following counters and cupboards have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, etc (Tops have been measured separately unless otherwise described)</i></p> <p><u>NOTE:</u> <i>All work tops shall be sealed against walls, around basins, sinks, etc with an approved type non-fungal sustaining clear silicone sealant</i></p> <hr/> <p><u>White melamine faced particle board</u></p> <p>White melamine faced particle board shall be high quality melamine faced particle board comprising a single layer of melamine impregnated paper fused under heat and pressure to both sides of a 18mm thick high density interior grade particle board manufactured from wood particles, bonded with synthetic resin under heat and pressure to provide a smooth surfaced multi-layer board core. Finish to be a textured stippled finish</p> <p><u>Melamine faced particle board with decorative timber finish</u></p> <p>Decorative melamine faced particle board shall be high quality melamine faced particle board comprising a single layer of melamine impregnated paper fused under heat and pressure to both sides of a 16mm thick high density interior grade particle board manufactured from wood particles, bonded with synthetic resin under heat and pressure to provide a smooth surfaced multi-layer board core. Decorative finish to be woodgrain patterned, gloss-like finish to optimize wood grain effect</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 6 JOINERY FITTINGS</p>			
			R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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	<p><u>Standard white hardboard</u></p> <p>Hardboard shall be 3mm thick, compressed refined wood fibre bonded under heat and pressure into sheet form, with white printed surface on one side</p> <p><u>Post-formed work tops, doors and drawer fronts</u></p> <p>Post-formed work tops, doors and drawer fronts shall be formed of high-pressure decorative laminate bonded to high density interior grade particle board. Work tops to have bull-nose profile post-formed edges where specified. Doors and drawer fronts to have bull-nose profile post-formed edges all round. High-pressure laminate shall have a neutral coloured textured stippled finish</p> <p><u>Screws and screw fixing</u></p> <p>All particle board shall be screw-fixed with particle board screws</p> <p>Only straight shank nickle plated chipboard screws shall be used. Pilot holes shall be drilled approximately 2mm deeper than the screw length. Screws in edges of boards shall never be positioned less than 3mm from the edge of the board. Screws shall never be over-tightened or driven in with a hammer. Nailing shall not be allowed for particle board</p> <p><u>Backing bearers</u></p> <p>Backing bearers shall be formed with 25 x 45mm particle board with white impregnated paper finish fixed to walls with and including 50mm long driven brass plated screws into plastic plugs at 150mm centres</p> <p><u>Hinges</u></p> <p>Hinges shall be full overlay automatic flush 110° opening hinges. Hinges shall be manufactured entirely from nickel plated steel</p> <p><u>Cupboard door catches</u></p> <p>Cupboard doors shall be fitted with a spring loaded double nylon roller catch to each leaf with zinc plated steel finish</p>			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 6 JOINERY FITTINGS</p>		<p style="text-align: center;">R</p>	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<p><u>Cupboard and drawer locks (All doors and drawers to be lockable - keyed alike per room with Master key to IDT)</u></p> <p>Cupboard doors and drawers shall be fitted with two lever brass plated cupboard locks with two keys for each door</p> <p><u>Cupboard door handles</u></p> <p>Cupboard doors shall be fitted with 90mm anodised aluminium bow handles</p> <p><u>Drawer runners</u></p> <p>Drawers to be fitted with heavy duty telescopic aluminium drawer slides</p> <p><u>Applied edging</u></p> <p>All 1mm and 3mm rigid pvc edging are to be factory applied by means of automated edge bending machinery</p>				
44	<p><u>CUPBOARDS</u></p> <p>2008mm Long x 600mm deep x 968mm high floor cupboard comprising 16mm thick melawood base structure, 19 x 75mm high recessed meranti skirting including quarter round, 16mm thick melawood sides, bottoms, backs and shelves, 16mm thick double leaf melawood doors size overall 502 x 868mm high, 32mm thick formica worktop with double rounded edges along front installed complete with and including full overlay automatic flush opening hinges, two lever cupboard locks, aluminium bow handles, etc.</p> <p style="text-align: right;">No</p>	1			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 6 JOINERY FITTINGS</p>		R		

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

45	3000mm Long x 600mm deep x 968mm high floor cupboard comprising 16mm thick melawood base structure, 19 x 75mm high recessed meranti skirting including quarter round, 16mm thick melawood sides, bottoms, backs and shelves, 16mm thick double leaf melawood doors size overall 502 x 868mm high, 16mm thick melawood drawer unit size overal 502 x 868mm high, 32mm thick Rustenburg granite top (measured elsewhere) with double rounded edges along front installed complete with and including full overlay automatic flush opening hinges, two lever cupboard locks, aluminium bow handles, drawer runners, etc.	No	1		
46	Extra over 32mm thick worktop for forming sink cut-outs size overall 900 x 500mm.	No	1		
<p style="text-align: right;">Carried forward</p> <p>Bill No. 6 JOINERY FITTINGS</p>					
					R

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

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**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 7</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</u></p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", bolts are measured elsewhere.</p> <p><u>Coved cornices</u></p> <p>Gypsum plasterboard coved cornices shall be scribed at internal angles and mitred at external angles. Cornices shall be nailed through ceiling boards to bracker and walls with 2mm diameter galvanised or cadmium plated clout headed nails at 300mm centres or fixed to walls with hardened steel nails.</p> <p><u>Proprietary suspended ceilings</u></p> <p>Electric light fittings, diffusers, panels, etc. generally are "lay-in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof).</p>			
	Carried forward		R	
	Bill No. 7 CEILINGS ETC			

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	<p><u>"Rhino-Drywall" partition systems</u></p> <p>"Rhino-Drywall" partitions shall comprise 63,5mm top and bottom galvanised steel tracks with 63,5mm galvanised steel vertical studs at maximum 600mm centres, friction fitted or pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc. and covered as described with wallboard screwed to studding with "Drywall" screws at maximum 220mm centres. Boards shall be butt jointed and finished with "Rhino" tape and "Readymix D" jointing compound, all in accordance with the manufacturer's instructions, complete with flat section aluminium skirtings. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound.</p> <p><u>"Approved" partition systems</u></p> <p>Demountable partitions are to be "Approved" with an overall thickness of 76mm, comprising 50mm wide galvanised steel tracks and studs with one layer of 12,7mm gypsum plasterboard in 1,20m modules on each side and flat section aluminium skirtings and recessed aluminium cornices. The panels shall be covered with "Similar approved" paper backed vinyl wall cladding wrapped around edges. Aluminium door frames and glazing sections, skirtings, cornices, etc. shall be natural anodised aluminium. The partitions shall be erected in accordance with the manufacturer's instructions.</p> <p><u>Access Flooring</u></p> <p><i>When access flooring is to be included in the bills of quantities, other than by means of a provisional sum, supplementary preambles in the form of technical specifications and descriptions are to be compiled in conjunction with specialists in this field and thoroughly investigated and checked to ascertain their correctness for the works.</i></p> <p><u>CEILINGS, ETC.</u></p> <p><u>NAILED UP CEILING</u></p>			
	<p align="right">Carried forward</p> <p>Bill No. 7 CEILINGS ETC</p>		R	

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	<p><u>6mm "Everite Nutec" or similar approved fibre cement ceiling boards fixed to 50 x 50mm battens at 600mm centres using 32 x 2.5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board, the whole finished with a minimum 6mm thick coat of "Rhinolite" or similar approved gypsum skim plaster trowelled to a smooth polished surface. All joints to be covered using 40mm meranti cover strip over joints, all in accordance with the manufacturers specifications.</u></p>				
47	<p>Ceiling, including 50 x 50mm sawn softwood brandering at 400mm centres.</p> <p><u>SUSPENDED CEILINGS</u></p> <p><u>1200 x 600 x 13mm Thick vinyl clad gypsum ceiling boards laid on and including Donn T-section inlay exposed tee suspension ceiling system including galvanised T37FR main tees, T32V cross tees, hold-down clips, wedges, etc., all suspended with galvanised hangers at centres not exceeding 1200mm.</u></p>	m²	6		
48	Ceiling suspended not exceeding 1m below timber trusses.	m²	14		
49	Re-alignment of existing boards approximately 2715mm high.	m²	45		
	<p><u>CORNICES</u></p> <p><u>"Donn" or similar approved cornices to suspended ceilings</u></p>				
50	"SM25" pre-painted cornices, nailed to walls	m	12		
51	Re-alignment of existing shadowline approximately 2715mm high.	m	15		
	<p><u>ROOF INSULATION</u></p>				
52	50mm Thick Aluthern or similar approved insulation closely fitted and layed on top of brandering between roof timbers.	m²	18		
Carried forward				R	
Bill No. 7 CEILINGS ETC					

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Section No. 2 Bill No. 7 CEILINGS ETC <u>COLLECTION PAGE</u>				
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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 8</u></p> <p><u>IRONMONGERY</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated. SC Satin chromium plated. SE Silver enamelled. GE Grey enamelled. AS Anodised silver. AB Anodised bronze. AG Anodised gold. ABL Anodised black. PB Polished brass. PL Polished and lacquered. PT Epoxy coated. SD Sanded.</p> <p><u>Fixing</u></p> <p>Items described as plugged shall be deemed to include screwing to fibre, plastic or metal plugs.</p> <p><u>BOLTS</u></p> <p><u>Stainless Steel:</u></p>			
53	"Union 5305-24SS" or similar approved WC indicator bolt.	No 7	
<p><u>LOCKS</u></p>			
<p>Carried forward</p>			R
<p>Bill No. 8 IRONMONGERY</p>			

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	<u>"Union"</u>				
54	Cat. Ref. 2261-76SS (Standard) or similar approved four lever upright lock with stainless steel forend.	No	10		
	<u>HANDLES</u>				
	<u>Union</u>				
55	"Gower ref 682-24SC" or similar approved zinc handles on 151 x 41mm backplates	Pairs	8		
56	"Union 5205BTSS" or similar approved pull handle.	Pairs	9		
	<u>DOOR CLOSERS</u>				
	<u>"Dorma"</u>				
57	TS73 or similar approved door closer with standard arm.	No	2		
	<u>LETTERS, NAME PLATES, ETC.</u>				
58	150 x 150 x 3mm thick stainless steel pictogram sign with "Male" engraving fixed to door.	No	2		
59	150 x 150 x 3mm thick stainless steel pictogram sign with "Female" engraving fixed to door.	No	2		
60	150 x 150 x 3mm thick stainless steel pictogram sign with "Paraplegic" engraving fixed to door.	No	1		
61	150 x 150 x 3mm thick stainless steel pictogram sign with "Staff Toilet" engraving fixed to door.	No	1		
62	150 x 150 x 3mm thick anodised aluminium Directional sign with solid fill black engraved on plate.	No	8		
63	150 x 150 x 3mm thick anodised aluminium Fire extinguisher sign with solid fill black engraved on plate.	No	2		
	<u>PUSH PLATES, KICKING PLATES, ETC.</u>				
64	1,6mm Thick stainless steel kick plate size overall 722 x 300mm high, countersunk screwed to door with self tapping screws.	No	4		
	Carried forward			R	
	Bill No. 8 IRONMONGERY				

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65	1,6mm Thick stainless steel kick plate size overall 900 x 300mm high, countersunk screwed to door with self tapping screws.	No	15		
<u>BATHROOM FITTINGS</u>					
66	"Halcast Steel (Ref. 366S-SC)" or similar approved thief proof toilet roll holder plugged to wall.	No	7		
67	"Franke Jetstream Airtronic (ref: 359989)" or similar approved heavy duty automatic touch free electric hand dryer with infrared activation system installed in strict accordance with the manufacturer's instruction.	No	4		
68	"Franke STRX618" or similar approved soap dispenser plugged to wall.	No	4		
69	19mm Diameter chromium plated towel rail 600mm long including end brackets, plugged to wall.	No	4		
70	"TCS Hygiene" or similar approved waste container.	No	4		
71	"TCS Hygiene" or similar approved sanitary container.	No	3		
<u>GRAB RAILS, ETC.</u>					
72	"Franke CNTX 900 ref: 359875" or similar approved 32mm diameter stainless steel grab rail including mounting brackets screwed and plugged to wall.	No	1		
73	32mm Diameter x 1162mm girth grade 304 stainless steel long leg rear rail twice bent at 90 degrees including mounting brackets screwed and plugged to wall.	No	1		
74	300mm Flushvale back rail including mounting brackets screwed and plugged to door.	No	1		
<u>PINNING BOARDS</u>					
75	Pinning boards 2000 x 1000mm high with anodised aluminium frame, bulletin board and complete with accessory holders, plugged.	No	2		
<u>SUNDRIES</u>					
76	"Buchel B3446" or similar approved rubber door stop plugged to floor.	No	16		
Carried forward				R	
Bill No. 8 IRONMONGERY					

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**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>DESCRIPTIONS</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers.</p> <p>Descriptions of expansion anchors and bolts, chemical anchors and bolts, shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described.</p> <p><u>PRICING OF ITEMS</u></p> <p>The Architects Door and Window Schedules are included in the back of the Bill.</p> <p>Tenderer's to price the items in strict accordance with the attached Architects drawings with particular reference to the different types and thicknesses of glass.</p> <p>No claims will be entertained, whatsoever, afterwards from the Tenderer in terms of the pricing of the glass.</p>			
	Carried forward		R	
	Bill No. 9 METALWORK			

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	<p><u>PREAMBLES</u></p> <p><i>For preambles refer to "General Specification of Materials and Methods to be used for Building Contracts" (GP/ASC).</i></p> <p><u>TRADE NAMES</u></p> <p><i>No reference to trade names shall be made in these bills of quantities.</i></p> <p><u>General:</u></p> <p>All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc.. shall be designed, manufactured, supplied and installed in strict compliance with the "Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA), General Specification for Architectural Aluminium and Glass Products February 2005 Edition" and SANS 10137.</p> <p>All descriptions shall be deemed to include transoms, mullions, etc. as per the Architect's drawings.</p> <p><u>Design and installation:</u></p> <p>The Sub-Contractor shall be required to design the entire installation, provide all labour, materials, equipment and services required to complete the installation as specified herein.</p> <p>The Sub-Contractor shall ensure that the necessary wind pressure provisions have been incorporated within the design criteria. The Sub-Contractor shall submit his wind design criteria to the Architect for inspection.</p> <p>The Sub-Contractor shall allow for expansion of glass, framing, surrounding structures, etc.</p> <p>The Sub-Contractor shall allow for and produce fully detailed workshop drawings (3 copies) including samples of all ironmongery within 14 working days of the Main Contractors request.</p> <p><u>Fire resistance:</u></p> <p>The installation shall conform to the local authorities fire resistance standards.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 9 METALWORK</p>			
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	<p><u>Templates:</u></p> <p>Templates formed of 25 x 25mm square hollow section steel are to be provided in each opening, to ensure that all windows, doors, shopfronts, skylights, etc. are built in plumb and square.</p> <p>The subcontractor is to use his discretion in providing a sufficient quantity of templates as required, to complete the Works as per the Main Contractors programme.</p> <p><u>Grounds:</u></p> <p>19 x 25mm Wrought SA pine grounds are to be fitted all round windows, doors, etc. Where grounds are visible they should be painted to form a shadow line.</p> <p><u>Sealing:</u></p> <p>Window frames are to be sealed all round, internally and externally, against the building structure with approved silicone jointing compound to prevent water ingress.</p> <p><u>Weather seals:</u></p> <p>All windows, doors, shopfronts, skylights, etc. are to be fitted with approved woolpile weather seals.</p> <p><u>Ironmongery to doors:</u></p> <p>Door leaves are to be hung on one and a half pairs of 100 x 75mm butt hinges and fitted with one spring clip door holder. In addition, double doors are to be fitted with one 150mm and one 200mm natural anodised flush lever bolt.</p> <p>Tenderers shall submit full specifications of ironmongery quoted which shall include all furniture, locks, handles, butt hinges, floor spring hinges, etc.</p> <p>The Sub-Contractor shall be required to submit ironmongery samples for approval prior to installation.</p> <p>Sub-Contractors are to note that the approval of shop drawings does not automatically indicate acceptance of ironmongery proposals.</p>			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 9 METALWORK</p>		<p style="text-align: right;">R</p>	

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	<p><u>Prices:</u></p> <p>All glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc. must include for all jointing, notching, cutting, etc. and for setting up and fixing in position, complete with glass, glazing beads, external cills, ironmongery, fixing brackets, lugs, bolts, timber grounds, silicone sealant, templates, etc., all as detailed and scheduled on the drawings and as necessary for the satisfactory execution of the work.</p> <p><u>Factory quality control:</u></p> <p>The Sub-Contractor shall afford the Main Contractor full access to plant, shop and assembly point to view and inspect the process and method employed in the fabricating and assembly of glazed aluminium windows, sliding doors, doors, shopfronts, skylights, etc.</p> <p><u>Protection and cleaning:</u></p> <p>All aluminium must be protected against damage by covering with temporary casings (masking tape, plastic coatings, etc.), and against deterioration or discolouration caused by mortar, wax, paint, etc., all to the entire satisfaction of the Principal Agent. On completion, all such protection shall be removed, and work cleaned down and left in proper working order.</p> <p>All glazing is to be protected from damage, breakage, scratches, etc., and allowances shall be made for polishing the glass as and when instructed by the Main Contractor.</p> <p><u>Referencing:</u></p> <p>Tenderers' attention is hereby drawn to relevant Architectural schedules as far as doors, windows and shopfronts are concerned, for ease of reference.</p> <p><u>PRESSED STEEL DOOR FRAMES</u></p> <p><u>1,2mm Thick double rebated frames suitable for half brick walls complete with hoop iron anchors welded to frame, one adjustable stainless steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one pair of 100mm standard heavy duty brass butt hinges welded to frame:</u></p>			
77	Frame for door size 900 x 2032mm high.	No	1	
	Carried forward		R	
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	<p><u>1,2mm Thick double rebated frames suitable for one brick walls complete with hoop iron anchors welded to frame, one adjustable stainless steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one pair of 100mm standard heavy duty brass butt hinges welded to frame:</u></p>				
78	<p>Frame for door size 1444 x 2032mm high.</p> <p><u>SECURITY GATES</u></p> <p><u>Welded mild steel security gates:</u></p>	No	1		
79	<p>Single gate size overall 900 x 1800mm high formed of 50 x 50 x 3mm thick hollow section frame, filled in with 10mm diameter solid bars fixed diagonally and 0,63mm thick "Nu-rib 762" profile metal cladding pop rivetted to inside of frame and lock rail, the gate hung on one pair 25 x 80mm long heavy duty pin hinges welded to and including 35 x 35 x 8mm hinge plates welded to frame.</p>	No	1		
80	<p>Double leaf size overall 1444 x 1800mm high formed of 50 x 50 x 3mm thick hollow section frame, filled in with 10mm diameter solid bars fixed diagonally and 0,63mm thick "Nu-rib 762" profile metal cladding pop rivetted to inside of frame and lock rail, the gate hung on one pair 25 x 80mm long heavy duty pin hinges welded to and including 35 x 35 x 8mm hinge plates welded to frame.</p> <p><u>RECORD ROOM DOORS, VENTILATORS, ETC. INCLUDING BUILDING INTO BRICKWORK OR CONCRETE</u></p> <p><u>The following doors shall be provided with two keys which shall not be delivered with the doors, but are to be posted by the manufacturer direct to the Regional Representative, Independent Development Trust.</u></p> <p><u>Category 2 strongroom door and frame with a nett mass of 320kg and two hour fire rating suitable for one brick wall (SABS 949-1972). The whole pre-painted complete including seven lever security lock.</u></p>	No	2		
81	<p>Single leaf strongroom door size 1040 x 2050mm high.</p>	No	1		
82	<p>Double ended strongroom ventilator suitable for 220mm thick concrete wall size 255 x 255mm high.</p>	No	1		
Carried forward					R
<p>Bill No. 9 METALWORK</p>					

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Bill No. 9 METALWORK				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 10</u></p> <p><u>PLASTERING</u></p> <p><u>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><i>NOTE: Screed mix designs must be done by the engineer and the sand tested in a laboratory beforehand. A mechanical mixer is preferred to ensure a homogeneous smooth plaster, screed, etc. mixtures and each batch should be mixed for not less than 3 minutes. The time which elapse between the start of mixing a batch and when it is placed, should not exceed 45 minutes and during that time, the mix should be protected from drying out. Regular strength tests must be conducted to these mixes.</i></p> <p><i>A level screed must be provided and a special large wooden trowel to be used. Screeds should be inspected and tested to determine deviation from datum level and surface regularity. The strength of the screed, once it has dried-out, must be test regular using the "BRE screed tester" as well as tests to check the adhesion between screed and base.</i></p> <p><i>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 142 for JBCC CPAP purposes</i></p> <hr/> <p><u>INTERNAL PLASTER</u></p> <p><u>One coat cement plaster minimum 15mm thick (4:1) finished smooth with a steel float including all labours:</u></p>			
83	Brick vertical surfaces.	m ²	8	
	Carried forward		R	
	Bill No. 10 PLASTERING			

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<p>Section No. 2</p> <p>Bill No. 10</p> <p>PLASTERING</p> <p><u>COLLECTION PAGE</u></p> <p>Total Brought Forward from Page No.</p> <p>Total Brought Forward from Page No.</p> <p>Carried Forward to Summary of Section No.</p> <p>Bill No. 10</p> <p>PLASTERING</p>	<p>Page No</p> <p>74</p> <p>75</p>		<p>Amount R</p> <p>-----</p> <p>-----</p> <p>R</p>	
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Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 11</u>			
<u>TILING</u>			
NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed NOT to include 1:3 screed bedding.			
<u>WALL TILING</u>			
All materials, including adhesive, grouting,etc. will be included in the prime cost amounts.			
<u>Glossy white ceramic tiles size 150 x 150 x 6mm thick fixed with an approved adhesive on plaster bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound:</u>			
87	On walls.	m ²	14
<u>FLOOR TILING</u>			
<u>300 x 300 x 10mm Ceramic floor tiles fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof grout.</u>			
88	On floors.	m ²	12
<u>GRANITE TOPS</u>			
Carried forward			R
Bill No. 11 TILING			

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Section No. 2 Bill No. 11 TILING <u>COLLECTION PAGE</u>				
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE(PROVISIONAL)</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Equal and approved polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under, shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings, as designed for use with copper pipes as stated.</p> <p>Pipes shall be firmly fixed to walls, etc. with coloured nylon snap-in pipe clips, with provision for accommodating thermal movement, jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p> <p><u>Equal and approved polypropylene pipes:</u></p> <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supracamp" running joints.</p> <p>Fusion welded bends, once or twice-mitred as necessary, and tees shall be factory manufactured.</p> <p>Fusion-welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers.</p>			
	Carried forward		R	
	Bill No. 12 PLUMBING AND DRAINAGE			

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	<p>Branch tees shall include flanged and bolted joints to approved branch pipes in addition and for brass compression male iron to copper straight couplers.</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same.</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions.</p> <p>All pipe diameters are nominal external.</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid.</p> <p>Sewer and drainage pipes including fittings shall be jointed and sealed with butyl rubber rings.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes including fittings shall be solvent weld jointed.</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated.</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p>			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 12 PLUMBING AND DRAINAGE</p>		R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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	<p><u>Copper pipes:</u></p> <p>Pipes shall be hard-drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be Approved type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting-in, building-in or suspending not exceeding 1m below suspension level.</p> <p><u>Lead pipes and fittings</u></p> <p>All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel.</p> <p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm, only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers, he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers, etc. will be entertained.</p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets, etc. shall be deemed to include wire balloon gratings.</p> <p><u>Septic tanks</u></p> <p>Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc. all in accordance with the manufacturer's instructions.</p>			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 12 PLUMBING AND DRAINAGE</p>		R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<p><u>Exposed concrete surfaces</u></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc. shall be finished smooth with plaster.</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks".</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded, and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SANS 1200 L : Medium-pressure pipelines. LD : Sewers. LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200. DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200. LB : Bedding (Pipes). Unless otherwise described, bedding of rigid pipes shall be class B bedding.</p> <p><u>Flush pans</u></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p>			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 12 PLUMBING AND DRAINAGE</p>		R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><u>Steel sectional water tanks</u></p> <p>Tanks shall comply with SANS CKS 114.</p> <p><u>Approved petrolatum anti-corrosion tape as per manufacturer</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described.</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc.</p> <p><u>SANITARY FITTINGS</u></p> <p><u>White vitreous china:</u></p> <p>91 WC suite comprising with close coupled 90° outlet open rim washdown pan and 9 litre concealed cistern complete with flushing pipe, flushing mechanism and solid plastic double flap seat, fixing in position and connecting complete.</p> <p>92 510 x 400mm One tap hole lavatory wash hand basin bolted to wall complete with and including chromium plated waste union, chain and stay, vulcanite plugs, 10mm diameter bolts, fixing in position including sealing with an approved waterproof sealer and connecting complete as per manufacturers instructions (taps elsewhere).</p> <p>93 415 x 315 x 275mm white glazed vitreous china bowl urinal with top water inlet complete with hanger brackets with and including approved urinal flush valve, spreader, domical grating, and connecting complete.</p> <p style="text-align: right;">Carried forward</p> <p>Bill No. 12 PLUMBING AND DRAINAGE</p>				
	No	1		RATE ONLY	
	No	4			
	No	2			
			R		

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<u>Approved stainless steel type 304 (18/10):</u>				
94	"Franke Quinline QLX611" or similar approved 900 x 500mm single end bowl inset sink size overall complete with chromium plated waste, chain and stay, under sink insulation, fixing in position and connecting complete as per manufacturer's instructions (taps elsewhere).	No	1		
95	"Franke Quinline QLX621-120" or similar approved 1200 x 500mm double end bowl inset sink size overall complete with chromium plated waste, chain and stay, under sink insulation, fixing in position and connecting complete as per manufacturer's instructions (taps elsewhere).	No	1		
	<u>WASTE UNIONS, ETC.</u>				
96	38mm sink outlet, chrome plated, with backnut plug and chain , unslopped as Cobra 316	No	2		
	<u>TRAPS, ETC.</u>				
97	40mm Rubber P or S trap	No	3		
98	40mm Chromium plated brass bottle trap.	No	8		
	<u>TAPS, VALVES, ETC.</u>				
	<u>Chromium plated:</u>				
99	15mm Elbow action pillartap with aerator.	No	1		
100	15mm Wash hand basin mixer.	No	5		
101	15mm Sink mixer with overarm swivel outlet.	No	2		
102	Standard exposed urinal flush valve and tailpipe with integral ballostop, wallplate, etc.	No	2		
	<u>Brass:</u>				
103	15mm Ballostop valve.	No	7		
104	22mm Non-return valve.	No	16		
	<u>Sundries:</u>				
105	15mm Flexihose 450mm long.	No	23		
	Carried forward			R	
	Bill No. 12 PLUMBING AND DRAINAGE				

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<u>SOIL AND WASTE WATER DRAINAGE</u>				
	<u>uPVC soil and waste piping with seal ring joints in accordance with SABS 967 fixed to walls, concrete soffits, etc.:</u>				
106	50mm Diameter pipe.	m	22		
107	110mm Diameter Class 9 structured wall pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide and not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	17		
	<u>Extra over uPVC pipes for fittings:</u>				
108	50mm Bend.	No	3		
109	50mm Junction.	No	2		
110	50mm Tee.	No	1		
111	110mm Bend.	No	6		
112	110mm Bend with inspection eye.	No	10		
113	110mm Junction.	No	8		
114	110mm Junction with inspection eye.	No	10		
115	110 x 50mm Reducer.	No	8		
116	110 x 50mm Reducing junction.	No	2		
117	110 x 50mm Reducing tee.	No	4		
118	110mm Vent valve.	No	7		
119	110mm Pan connector.	No	7		
120	110mm Bent pan connector.	No	7		
	Carried forward			R	
	Bill No. 12 PLUMBING AND DRAINAGE				

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<u>Sumps, catch-pits, inspection chambers, kerb inlets, etc.:</u>				
121	Gully not exceeding 1m deep to invert comprising 100mm diameter vetrified clay trap and head, fitted with 190mm diameter cast iron grating, including excavating for, bedding on and incasing in 20Mpa - 90mm mass concrete and fitted with and in including precast concrete gully top bedded in cement mortar.	No	3		
	<u>WATER RETICULATION</u>				
	<u>Copper tubing (SABS 460 Class 0) with brass capillary fittings fixed to walls, concrete soffits, etc.:</u>				
122	22mm Diameter pipe.	m	80		
123	22mm Fittings.	No	30		
124	32 x 22mm Reducer.	No	2		
	<u>ELECTRIC WATER HEATERS</u>				
	<u>High pressure point of use electric water storage heater complying with SABS 151-1976:</u>				
125	"Zip Hydroboil" or similar approved 7.5 Litre horizontally wall mounted 2,4kW electric water heater.	No	1		
	<u>Hose Reels, etc.:</u>				
126	Approved 4,5Kg DCP cylindrical fire extinguisher fixed on and including backing boards to walls.	No	2		
	<u>SUNDRIES:</u>				
127	20Mpa Concrete in thrust blocks at bends, tees, etc. including backing boards to walls.	m³	1		
128	115mm Diameter x 102mm high (Type 7)cast iron stopcock box including brick chamber below not exceeding 500mm deep internally.	No	1		
	<u>CHASES, SLEEVES, HOLES, ETC. INCLUDING MAKING GOOD</u>				
129	Chase in wall for pipe not exceeding 50mm diameter.	m	48		
	Carried forward			R	
	Bill No. 12 PLUMBING AND DRAINAGE				

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

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**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

<p>Section No. 2</p> <p>Bill No. 12</p> <p>PLUMBING AND DRAINAGE</p> <p><u>COLLECTION PAGE</u></p>			
<p style="text-align: right;">Carried Forward to Summary of Section No.</p> <p>Bill No. 12</p> <p>PLUMBING AND DRAINAGE</p>		R	

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

[illegible]

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 14</u></p> <p><u>PAINTWORK</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>DESCRIPTIONS</u></p> <p>Descriptions of paintwork shall be deemed to include for all cutting in.</p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely, before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth.</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal.</p> <p><u>Previously painted wood surfaces</u></p> <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>			
	Carried forward		R	
	Bill No. 14 PAINTWORK			

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

	<p><u>APPLICATION OF PAINT, ETC.</u></p> <p>The use of a spray gun for on-site application of paint will not be permitted, except in the case of cellulose and other special paints where spray painting is the accepted method of application. Where spray painting is permitted all surrounding surfaces shall be properly masked.</p> <p><u>HANDING OVER</u></p> <p>The contractor shall provide all necessary dustproof sheets, covers, etc. and shall exercise all necessary precaution to prevent staining surfaces, walls, floors, glass, electrical fittings, etc. and shall keep all parts of the "works" perfectly clean and free at all times from spotting, accumulation of rubbish, debris or any dirt arising from the operations. Any surface disfigured or otherwise so damaged, shall be completely renovated or replaced as necessitated by the Contractor at his own expense to the Principal Agent's approval.</p> <p>The contractor shall leave premises clean and fit for occupation upon completion of the works.</p> <p><u>FLOATED PLASTER</u></p> <p><u>Prepare and apply one coat alkaline resistant primer, one universal undercoat and two coats eggshell enamel paint on:</u></p>				
134	Internal plastered walls, columns, recessed bands, etc.	m ²	531		
135	Internal plastered soffits.	m ²	1		
	<p><u>Prepare and apply one coat plaster primer, one coat undercoat and two coats wall and all paint on:</u></p>				
136	External plastered walls, columns, recessed bands, etc.	m ²	46		
	<p><u>FIBRE CEMENT</u></p> <p><u>Prepare and apply one coat alkali resistant primer, one coat pure acrylic paint thinned with 20% water and one coat exterior quality pure acrylic paint on:</u></p>				
137	Fascia boards and barge boards.	m ²	18		
	<p><u>METAL</u></p>				
	Carried forward			R	
	Bill No. 14 PAINTWORK				

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

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COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

Section No. 2 Bill No. 14 PAINTWORK <u>COLLECTION PAGE</u>				
Total Brought Forward from Page No. Total Brought Forward from Page No. Total Brought Forward from Page No.	Page No		Amount R	
	91			
	92			
	93			
Carried Forward to Summary of Section No. Bill No. 14 PAINTWORK				

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

Bill No	<u>SECTION SUMMARY - BUILDERS WORK</u>	Page No	Amount R	
1	ALTERATIONS	34		
2	CONCRETE, FORMWORK AND REINFORCEMENT	39		
3	MASONRY	46		
4	WATERPROOFING	49		
5	CARPENTRY AND JOINERY	52		
6	JOINERY FITTINGS	59		
7	CEILINGS ETC	63		
8	IRONMONGERY	67		
9	METALWORK	73		
10	PLASTERING	76		
11	TILING	79		
12	PLUMBING AND DRAINAGE	89		
13	GLAZING	90		
14	PAINTWORK	94		
Carried to Final Summary			R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

Item No			Quantity	Rate	Amount	
	<u>SECTION NO. 3</u>					
	<u>BILL NO. 1</u>					
	<u>ROADS, PARKING, ETC</u>					
	<u>ROAD MARKINGS</u>					
	<u>Prepare and paint one coat approved white, red or yellow 1.25mm thick thermoplastic, reflective road marking paint with Class 1 reflective beads within the paint on paving surface as per "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1091-1975:</u>					
1	100mm Wide broken or continuous lines. Code: RM1.	m	36			
2	600mm High letters. Code: GM7.	No	2			
3	2400mm High letters. Code: GM7.	No	2			
	<u>CANOPIES TO COVERED STAFF PARKING, ETC.</u>					
	<u>REMOVAL OF EXISTING WORK</u>					
	<u>Taking out and remove existing carport (not done according to specification)</u>					
4	Take down and remove existing carport approximately 35m².	No	1			
	<u>EARTHWORKS</u>					
	<u>Excavation in compacted earth not exceeding 2m deep in:</u>					
5	Holes including backfilling, compaction, risk of collapse, etc.	m³	1			
	<u>UNREINFORCED CONCRETE</u>					
	Carried forward					
	Bill No. 1 ROADS AND PATHWAYS				R	

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

	<u>15 Mpa/19mm Concrete in:</u>				
6	Bases.	m³	1		
	<u>ROOF COVERINGS</u>				
	<u>0.6mm Thick IBR galvanised steel roof sheeting with one side fixed steel purlins and 06.mm thick galvanised steel accessories:</u>				
7	Roof covering with pitch not exceeding 25 degrees.	m²	35		
	<u>STRUCTURAL STEELWORK</u>				
8	90mm Diameter x 2mm Thick circular hollow section 3000mm high including 200 x 200 x 5mm thick base plates, connectors, etc.	t	0,23		
9	100 x 50 x 20 x 2,5mm Cold formed lipped channel section rafter, cleats, etc.	t	0,18		
Carried forward				R	
Bill No. 1 ROADS AND PATHWAYS					

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

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COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>SOIL DRAINAGE(CPAP Work Group No. 146)</u></p>			
<p><u>uPVC pressure piping to SABS 966 with solvent welded joints (Diameters given are outside diameters):</u></p>			
10	100mm Diameter Class 9 structured wall pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide exceeding 1000mm but not exceeding 2000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	30
<p><u>Extra on uPVC pipes for fittings:</u></p>			
11	100mm Bend.	No	2
12	100mm Access bend.	No	1
13	100mm Junction.	No	1
14	100mm Access junction.	No	1
<p><u>The following in pre-fabricated manholes:</u></p>			
<p>Carried forward</p>			R
<p>Bill No. 2 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA</p>			

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<p><u>Excavate in compacted earth for and including circular type precast concrete manhole formed of 1420mm x 1420mm x 150mm thick 25Mpa concrete slab with manhole formed of 1000mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including precast concrete cover slab 150mm thick and 3 No. precast concrete spacer rings 750mm diameter with opening for and including heavy duty road type manhole cover and lockable frame as type 4 set in cement mortar and sealed in tallow and with 25Mpa concrete benching in bottom floated smooth with falls to and including 150mm vitrified clay channels and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary excavation, backfilling, carting away, dewatering, formwork, etc.</u></p>				
15	<p>Manhole exceeding 1500mm but not exceeding 2000mm deep.</p> <p><u>Inspection chambers, etc.</u></p>	No	2		
16	<p>275 x 275mm "ABC" cast iron bent cleaning eye cover and frame as per SABS 558 Type 14A jointed to top of 160mm diameter pipe including cement concrete surround size 450 x 450 x 210mm.</p> <p><u>The following in septic tank including necessary planking and strutting and keeping excavation dry</u></p> <p><u>Bulk Earthworks</u></p>	No	1		
17	<p>Excavate in earth not exceeding 2m deep including trimming sides, levelling and consolidating bottom, small part return, fill in and ram, remainder deposit on site where directed.</p>	m ³	27		
18	<p>Extra over excavations in earth for soft rock.</p>	m ³	4		
19	<p>Extra over excavations in earth for hard rock.</p>	m ³	14		
20	<p>Off site to a dumping site to be located by the Contractor.</p>	m ³	27		
21	<p>Allow for risk of collapse to sides of excavations exceeding 1500mm deep.</p>	m ²	42		
22	<p>Allow for keeping excavations free of water.</p>		Item		
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 2 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA</p>			R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

23	Backfilling with material obtained from the excavations and/ or prescribed stock piles on site compacted in layers not exceeding 150mm thick to 90% Modified AASHTO density at optimum moisture content, including shaping to falls as required, all necessary hand compacting, etc.	m ³	2		
	<u>Concrete, formwork and reinforcement</u>				
	<u>Concrete:</u>				
	<u>Unreinforced concrete cast against excavated surfaces</u>				
	<u>10mPa/15mm Concrete in:</u>				
24	Surface blinding	m ³	1		
	<u>Reinforced concrete</u>				
	<u>20mPa/19mm Concrete in:</u>				
25	Surface bed layed in falls.	m ³	3		
26	Slabs.	m ³	3		
	<u>Concrete sundries</u>				
27	Strike off and cure to top of concrete	m ²	10		
	<u>Finishing top surfaces of concrete smooth with wood trowel:</u>				
28	Surface beds, slabs, etc.	m ²	20		
	<u>Formwork:</u>				
29	General formwork to soffit of slab including removal through opening size 450 x 650mm	m ²	10		
30	Formwork to edge of slab not exceeding 300mm high	m	4		
31	Box for and form rebate opening size 400 x 600mm through 200mm slab for manhole and frame	No	2		
32	400 x 600mm Heavy duty cast iron manhole cover and frame complying with SABS 1115.	No	2		
	Carried forward			R	
	Bill No. 2				
	STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

	<u>Reinforcement</u>				
33	Steel rod reinforcement of varying diameters to the bottom, walls and slab.	t	0,56		
	<u>Masonry</u>				
34	One brick wall	m ²	19		
35	Half brick wall	m ²	4		
	<u>Plaster</u>				
	<u>One coat cement plaster minimum 15mm thick (4:1) finished smooth with a steel float including all labours:</u>				
36	Brick vertical surfaces.	m ²	33		
	<u>Sundries</u>				
37	Form opening size 100mm x 50mm through half brick wall and render all round in cement plaster	No	1		
38	Form opening size 110mm diameter through one brick wall and render all round in cement plaster	No	1		
	<u>Waterproofing</u>				
39	250 Micron polyethylene dampproof membrane and laying over top of geofabric membrane	m ²	10		
	<u>Screed:</u>				
40	30mm Thick screed on slab to falls.	m ²	10		
	<u>French Drain:</u>				
41	Allowance for french drain complete.		Item		2 500,00
	<u>WATER RETICULATION(CPAP Work Group No. 148)</u>				
	Carried forward			R	
	Bill No. 2 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

	<u>HDPE polyethelene Class 10 pipe with O-ring screw type fittings:</u>				
42	32mm Diameter Class 10 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	35		
43	40mm Diameter Class 10 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	100		
	<u>Extra on 32mm diameter HDPE pipe for:</u>				
44	Bend.	No	4		
45	Reducer.	No	1		
	<u>Extra on 40mm diameter HDPE pipe for:</u>				
46	Bend.	No	5		
47	Junction.	No	1		
48	Tee.	No	1		
49	End caps.	No	1		
	<u>Concrete anchor blocks and pipe surrounds:</u>				
50	20Mpa Concrete in marker block size overall 300 x 75 x 500mm high with 150mm projecting above ground including all necessary excavation, formwork, etc.	No	1		
	Carried forward			R	
	Bill No. 2				
	STORMWATER DRAINAGE, SOIL DRAINAGE AND WA				

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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51	<u>Valve chambers:</u>				
	Valve chamber size 250 x 250 x 600mm deep internally with 50mm concrete base (25Mpa) with 500 x 500 x 75mm concrete block including 220mm brick walls in engineering bricks and Type 5 cast iron frame and lid to SABS 558-65 set in 230mm thick concrete cover slab (25Mpa) including all necessary excavation, backfilling, formwork, etc.	No	1		
	<u>FIRE WATER RETICULATION(CPAP Work Group No. 148)</u>				
	<u>Galvanised Mild Steel Screwed and Socketed piping in accordance with SABS 62:</u>				
	52 100mm Diameter pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	166		
	<u>Extra on 100mm diameter galvanised pipe for:</u>				
	53 100mm Diameter bend.	No	7		
	54 100 x 32mm Diameter reducer.	No	5		
	<u>Valves and hydrants:</u>				
	55 Similar hose reel complete with 30m of 19mm hose all to SABS 543 incorporating 25mm chromium plated gunmetal gate valve and connection for and joint to supply pipe with brackets bolted to wall with and including four 8mm bolts with plate washers built 100mm into brickwork in cement mortar.	No	1		
<u>NATURE OF GROUND(CPAP Work Group No. 104)</u>					
56	Extra over excavations in soft rock.	m³	18		
57	Extra over excavations in hard rock.	m³	9		
Carried forward				R	
Bill No. 2 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA					

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58	<p><u>TESTING</u></p> <p>Provide all necessary apparatus, water, etc. and allow for testing the whole of the stormwater, sewer, water and fire water reticulation in parts and sections as completed and/or handed over to the satisfaction of the Engineer. All defective work is to be taken out and replaced at the Contractor's expense and the whole re-tested until found perfect.</p> <p align="right">Carried forward</p> <p>Bill No. 2 STORMWATER DRAINAGE, SOIL DRAINAGE AND WA</p>	Item			
			R		

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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Bill No. 2			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY			
<u>COLLECTION PAGE</u>			
	Page No		Amount R
Total Brought Forward from Page No.	99		
Total Brought Forward from Page No.	100		
Total Brought Forward from Page No.	101		
Total Brought Forward from Page No.	102		
Total Brought Forward from Page No.	103		
Total Brought Forward from Page No.	104		
Total Brought Forward from Page No.	105		
Carried Forward to Summary of Section No.		R	
Bill No. 2			
STORMWATER DRAINAGE, SOIL DRAINAGE AND WA			

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 3</u></p> <p><u>FENCING AND GATES</u></p> <p>NOTE: The Tenderer is referred to appropriate Clauses in the separate document 'Model Preambles for Trades' (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder before pricing this Bills of Quantities.</p> <p><u>PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>For trade names refer to item B1.8 of Preliminaries</p> <p><u>SHORT DESCRIPTIONS</u></p> <p>Where supplementary preambles and items in this Bill/Section are similar to those in the preceding Bills/Sections, such preambles have not been repeated and the item descriptions have been abbreviated. Reference must be made to the preceding Bills/Sections for the full intent and meaning of each item</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>Descriptions of fencing shall be deemed to include for setting up posts, stays etc. in and including concrete bases as described, excavation in earth, including risk of collapse, keeping excavation free of water, backfilling, watering, compacting and spreading of surplus excavated material over site, welding of palisade panels and welding same between posts, and painting complete as specified</p> <p><u>Earthworks</u></p> <p>All excavations shall be deemed to be in "earth" and backfilling/filling shall be deemed to be compacted to 90% modified AASHTO density</p>			
	Carried forward		R	
	Bill No. 3 FENCING			

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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	<p>Descriptions of excavation shall be deemed to include for setting aside surplus excavated material in stock piles for use in filling or for despositing within 150m of the perimeter of the excavations and spreading and roughly leveling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation</p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavation or, alternately, from stock piles situated on the building site and for bulking</p> <p><u>Mild steel palisade panels</u></p> <p>Palisade panels shall generally be 3 000mm wide x 2 035mm high, comprising two 50mm diameter x 2,0 mm wall thickness mild steel horizontal pipe rails spaced 1 335mm apart, with 12mm diameter mild steel pales at 150mm centres, framed through and welded to horizontal rails, with ends of pales splay cut to 45°. The horizontal rails are to be scribed at ends and welded to pipe posts. Palisade panels shall have painted finish as specified</p> <p><u>Mild steel pipe posts etc</u></p> <p>Posts and gate posts shall be of 75mm diameter x 3,0mm wall thickness mild steel pipe, each with 300 x 300 x 5mm thick mild steel sole plate welded on and top end closed off with 3mm thick plate welded on</p> <p>All posts shall have painted finish as specified. In addition sole plates and portions of posts embedded in ground shall be coated with bitumen</p> <p><u>Concrete bases and blocks</u></p> <p>Bases in ground for posts shall have tops 100mm below surface of ground</p> <p>Concrete bases for posts shall be 450 x 450 x 700mm deep</p> <p>Blocks for barrel bolts shall be 100 x 100 x 200mm in size, have chamfered top surface projecting 50mm above surrounding ground or paving level and be provided with and including short length of galvanised mild steel tubing embedded in concrete block as keep</p>			
	<p style="text-align: right;">Carried forward</p> <p>Bill No. 3 FENCING</p>		R	

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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	<p><u>Painting</u></p> <p>All rust, scale and dirt is to be removed and the steel sanded to a bright metal finish before painting</p> <p>All steel fencing components are to be painted with steel primer before delivery to site. Further painting may either be done at the workshop or on site. The primer is to inspected for damage and the components then painted with universal undercoat and two coats eggshell enamel to achieve a closed film and solid colour</p> <p><u>STEEL PALISADE FENCING</u></p>				
59	<p>Palisade fence 2035mm high comprising 40 x 40 x 3mm thick angle section palings with trident head spaced at 176mm centres in nominal panel size 3000mm wide secured to 76 x 76 x 2mm square hollow section hot dip galvanised posts (SABS 763 specification), with cast iron or pressed steel caps to match style, cross members secured to posts with M8 electroplated bolt and shear nut system, posts are planted in a minimum of 15MPa 20mm aggregate concrete block 450 x 450 x 650mm deep, and the centre palisade dropper is set in 300 x 300 x 300mm deep minimum 15 Mpa concrete block.</p>	m	64		
	<p><u>SECURITY GATES</u></p> <p><u>Welded mild steel security gates:</u></p>				
60	<p>Sliding vehicular gate size overall 4100 x 2000mm high formed of 100 x 50 x 3mm thick hollow section frame and 100 x 50 x 3mm thick hollow section vertical rail, filled in with 6mm diameter solid bars fixed diagonally and 0,63mm thick "Nu-rib 762" profile metal cladding pop rivetted to inside of frame and vertical rail, the gate hung on 2 No. 100 x 100 x 5mm thick hollow section posts including 300 x 300 x 300mm deep concrete base, excavation, gate track, guide rails, wheels, locking mechanism, ironmongery, etc.</p>	No	1		
	<p><u>PAINTWORK TO NEW WORK</u></p> <p><u>(CPAP WORKGROUP NO. 152 UNLESS OTHERWISE STATED)</u></p>				
	Carried forward			R	
	Bill No. 3 FENCING				

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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61	<p><u>Prepare and apply one coat calcium plumbate galvanised iron primer, one coat universal undercoat and two coats high gloss enamel paint on:</u></p> <p>To steel security fencing, posts, etc (both sides measured)</p>	m ²	486	
	<p style="text-align: right;">Carried forward</p>		R	
	<p>Bill No. 3 FENCING</p>			

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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<p>Section No. 3</p> <p>Bill No. 3</p> <p>FENCING</p> <p><u>COLLECTION PAGE</u></p>				
	Page No		Amount R	
Total Brought Forward from Page No.	107			
Total Brought Forward from Page No.	108			
Total Brought Forward from Page No.	109			
Total Brought Forward from Page No.	110			
<p style="text-align: right;">Carried Forward to Summary of Section No.</p>			R	
<p>Bill No. 3</p> <p>FENCING</p>				

COMPLETION OF A NEW OFFICE BLOCK FOR THE SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS

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**COMPLETION OF A NEW OFFICE BLOCK FOR THE
SOUTH AFRICAN SOCIAL SECURITY AGENCY IN BATLHAROS**

Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 4</u>				
	<u>BILL NO 1</u>				
	<u>PROVISIONAL AMOUNTS</u>				
	<p>The following provisional sums are for work to be executed by specialists who will be regarded as domestic sub-contractors to the contractor. The contractor shall call for quotations from specialists selected by the IDT on documents prepared by the IDT or the relevant consultant, in accordance with the Conditions of Contract and in conjunction with the Representative/Agent and the contractor shall in consultation with the relevant consultant adjudicate the tenders. The contractor shall, upon the final decision of the Representative/Agent, appoint the successful tenderer who shall become a selected domestic sub-contractor to the contractor. Privity of contract shall not be created between the Consultant and the domestic sub-contractor by the method of selection, tender enquiry, adjudication and appointment.</p>				
	<u>ELECTRICAL INSTALLATIONS</u>				
1	Allow the sum of R100 000.00 (One Hundred Thousand Rand) for the installation of Electrical Works complete.	Item		100 000,00	
2	Allow for profit	Item			
3	Allow for attendance	Item			
	<u>BOREHOLE</u>				
4	Provide the amount of R150,000.00 (One Hundred and Fifty Thousand Rand) for borehole installed complete.	Item		150 000,00	
5	Allow for profit	Item			
6	Allow for attendance	Item			
	<u>ELEVATED WATER STAND AND TANK</u>				
7	Allow the sum of R20 000.00 (Twenty Thousand Rand) for the installation of elevated water stand and tank installed complete.	Item		20 000,00	
	Carried forward		R		
	Bill No. 1 PROVISIONAL SUMS				

**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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8	Allow for profit	Item			
9	Allow for attendance	Item			
<u>LANDSCAPING</u>					
10	Provide the amount of R10,000.00 (Ten Thousand Rand) for landscaping installed complete.	Item		10 000,00	
11	Allow for profit	Item			
12	Allow for attendance	Item			
<u>STRUCTURAL STEELWORKS</u>					
13	Provide the amount of R10,000.00 (Ten Thousand Rand) for structural steelworks installed complete.	Item		10 000,00	
14	Allow for profit	Item			
15	Allow for attendance	Item			
Carried forward				R	
Bill No. 1 PROVISIONAL SUMS					

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Section No. 4 Bill No. 1 PROVISIONAL SUMS <u>COLLECTION PAGE</u>				
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**COMPLETION OF A NEW OFFICE BLOCK FOR THE
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Section No	<u>FINAL SUMMARY</u>	Page No		Amount R	
1	PRELIMINARIES AND GENERAL	29			
2	BUILDERS WORK	95			
3	EXTERNAL WORKS	112			
4	PROVISIONAL SUMS	115			
	SUB-TOTAL		R		
	Allow the sum of R11 200.00 (Eleven Thousand and Two Hundred Rand) for Community Liaison Officer.	Item		11 200,00	
	SUB-TOTAL		R		
	ADD: Value Added Tax (VAT)		R		
	TOTAL		R		