

THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
REFURBISHMENT OF BIOGAS BUILDING

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 1</u></p> <p><u>PRELIMINARY & GENERAL</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Principal Building Agreement (May 2018 Edition 6.2) 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 Preliminaries (May 2018) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement Edition 6.2 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 above mentioned documents for the full intent and meaning of each clause</p> <p><u>PREAMBLES FOR TRADES</u></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</i></p> <p>The Model Preambles for Trades 2008 as 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 Model 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 Model Preambles</p>			
Carried Forward			R
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	<p>The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model 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 of the aforementioned JBCC Principal Building Agreement</p> <p>Section B : A recital of the headings of the individual clauses of the aforementioned Preliminaries document</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>Clause 1.0 - Definitions and interpretation</p> <p>Definition of agreement</p> <p>The definition of agreement is replaced with the following definition :</p> <p>"AGREEMENT : The JBCC Principal Building Agreement, the completed JBCC PBA contract data, the contract drawings, the priced documents and any other documents reduced to writing and signed by the parties"</p>			
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<p style="text-align: center;">Brought Forward</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>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>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 HTN</p>			R	

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	<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 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>Errata by JBCC</p> <p>Omit from definition of construction period the words : "excluding annual holiday periods" Omit from definition of preliminaries the word : "priced"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/2	<p>Clause 2.0 - Law, regulations and notices</p> <p>User note</p> <p><i>Insert the following where a health and safety specification is <u>not</u> yet available</i></p> <p>Health and safety</p> <p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993. 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>			
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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 Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [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. Co-operate 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 			
1/1/3	<p>Clause 6.0 - Employer's agents</p> <p>Delegated authority</p> <p>The authority of the principal agent to issue contract instructions and perform duties for specific aspects of the works is delegated to agents as follows [6.2]:</p> <ol style="list-style-type: none"> 1. <u>Architect</u> 			
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<p style="text-align: center;">Brought Forward</p> <p>1.1 Duties :</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the works</p> <p>1.2 Contract instructions [17.0] :</p> <p>1.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this 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 [13.2.4]</p> <p>1.2.4 Compliance with the law, regulations and by laws [2.1]</p> <p>1.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works</p> <p>1.2.6 Opening up of work for inspection, removal or re-execution</p> <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 [8.0]</p> <p>1.2.11 Rectification of defects [21.2]</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 HTN</p>			R	

	Brought Forward		R	
1.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
1.2.13	Expenditure of budgetary allowances, prime cost amounts and provisional sums			
1.2.14	Appointment of a subcontractor [14.0; 15.0]			
1.2.15	Termination of a nominated n/s subcontract agreement [27.2.8]			
1.2.16	Work by (a) direct contractor(s) [16.0]			
1.2.17	Access by other or previous contractors to remedy defective work			
1.2.18	Removal from the site of any person employed on the works			
1.2.19	Removal from the site of any person not engaged on or connected with the works			
1.2.20	On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]			
2.	<u>Quantity surveyor</u>			
2.1	Duties :			
	The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works			
2.2	Contract instructions [17.0] :			
2.2.1	Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement			
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Brought Forward	R
2.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works	
2.2.3 The site [13.2.4]	
2.2.4 Compliance with the law , regulations and by laws [2.1]	
2.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works	
2.2.6 Opening up of work for inspection, removal or re-execution	
2.2.7 Removal or re-execution of work	
2.2.8 Removal or substitution of any materials and goods	
2.2.9 Protection of the works	
2.2.10 Making good physical loss and repairing damage to the works [8.0]	
2.2.11 Rectification of defects [21.2]	
2.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion	
2.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums	
2.2.14 Appointment of a subcontractor [14.0; 15.0]	
2.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]	
2.2.16 Work by (a) direct contractor(s) [16.0]	
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<p style="text-align: center;">Brought Forward</p> <p>2.2.17 Access by other or previous contractors to remedy defective work</p> <p>2.2.18 Removal from the site of any person employed on the works</p> <p>2.2.19 Removal from the site of any person not engaged on or connected with the works</p> <p>2.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]</p> <p>3. <u>Civil and structural engineer</u></p> <p>3.1 Duties :</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 [17.0] :</p> <p>3.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <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 [13.2.4]</p> <p>3.2.4 Compliance with the law, regulations and by laws [2.1]</p> <p>3.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works</p> <p>3.2.6 Opening up of work for inspection, removal or re-execution</p> <p>3.2.7 Removal or re-execution of work</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 HTN</p>			R	
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3.2.8	Removal or substitution of any materials and goods			
3.2.9	Protection of the works			
3.2.10	Making good physical loss and repairing damage to the works [8.0]			
3.2.11	Rectification of defects [21.2]			
3.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
3.2.13	Expenditure of budgetary allowances, prime cost amounts and provisional sums			
3.2.14	Appointment of a subcontractor [14.0; 15.0]			
3.2.15	Termination of a nominated n/s subcontract agreement [27.2.8]			
3.2.16	Work by (a) direct contractor(s) [16.0]			
3.2.17	Access by other or previous contractors to remedy defective work			
3.2.18	Removal from the site of any person employed on the works			
3.2.19	Removal from the site of any person not engaged on or connected with the works			
3.2.20	On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]			
4.	<u>Mechanical engineer</u>			
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<p>4.1 Duties :</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 [17.0] :</p> <p>4.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this 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 The site [13.2.4]</p> <p>4.2.4 Compliance with the law, regulations and by laws [2.1]</p> <p>4.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works</p> <p>4.2.6 Opening up of work for inspection, removal or re-execution</p> <p>4.2.7 Removal or re-execution of work</p> <p>4.2.8 Removal or substitution of any materials and goods</p> <p>4.2.9 Protection of the works</p> <p>4.2.10 Making good physical loss and repairing damage to the works [8.0]</p> <p>4.2.11 Rectification of defects [21.2]</p>				
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<p style="text-align: center;">Brought Forward</p> <p>4.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>4.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>4.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>4.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]</p> <p>4.2.16 Work by (a) direct contractor(s) [16.0]</p> <p>4.2.17 Access by other or previous contractors to remedy defective work</p> <p>4.2.18 Removal from the site of any person employed on the works</p> <p>4.2.19 Removal from the site of any person not engaged on or connected with the works</p> <p>4.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]</p> <p>5. <u>Electrical engineer</u></p> <p>5.1 Duties :</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 [17.0] :</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 HTN</p>			R	

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	Brought Forward		R	
5.2.1	Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement			
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			
5.2.3	The site [13.2.4]			
5.2.4	Compliance with the law , regulations and by laws [2.1]			
5.2.5	Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works			
5.2.6	Opening up of work for inspection, removal or re-execution			
5.2.7	Removal or re-execution of work			
5.2.8	Removal or substitution of any materials and goods			
5.2.9	Protection of the works			
5.2.10	Making good physical loss and repairing damage to the works [8.0]			
5.2.11	Rectification of defects [21.2]			
5.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
5.2.13	Expenditure of budgetary allowances, prime cost amounts and provisional sums			
5.2.14	Appointment of a subcontractor [14.0; 15.0]			
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	Brought Forward		R
5.2.15 Termination of a nominated n/s subcontract agreement [27.2.8]			
5.2.16 Work by (a) direct contractor(s) [16.0]			
5.2.17 Access by other or previous contractors to remedy defective work			
5.2.18 Removal from the site of any person employed on the works			
5.2.19 Removal from the site of any person not engaged on or connected with the works			
5.2.20 On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]			
7. <u>Fire consultant</u>			
7.1 Duties :			
The fire consultant is responsible for all aspects of rational fire design and quality inspection of the works			
7.2 Contract instructions [17.0] :			
7.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement			
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			
7.2.3 The site [13.2.4]			
7.2.4 Compliance with the law , regulations and by laws [2.1]			
7.2.5 Provision and testing of samples of materials and goods , of finishes and assemblies of elements of the works			
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	Brought Forward		R	
7.2.6	Opening up of work for inspection, removal or re-execution			
7.2.7	Removal or re-execution of work			
7.2.8	Removal or substitution of any materials and goods			
7.2.9	Protection of the works			
7.2.10	Making good physical loss and repairing damage to the works [8.0]			
7.2.11	Rectification of defects [21.2]			
7.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
7.2.13	Expenditure of budgetary allowances, prime cost amounts and provisional sums			
7.2.14	Appointment of a subcontractor [14.0; 15.0]			
7.2.15	Termination of a nominated n/s subcontract agreement [27.2.8]			
7.2.16	Work by (a) direct contractor(s) [16.0]			
7.2.17	Access by other or previous contractors to remedy defective work			
7.2.18	Removal from the site of any person employed on the works			
7.2.19	Removal from the site of any person not engaged on or connected with the works			
7.2.20	On termination, protection of the works , removal of construction equipment and surplus materials and goods [29.0]			
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	<p><u>8. Health and safety consultant</u></p> <p>8.1 Duties :</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:</p> <p>8.1.1 Act as the employer's agent in terms of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993</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> <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>			
1/1/4	<p>Clause 7.0 - Design responsibility</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><u>Insurance and security (A8-A11)</u></p>			
1/1/5	<p>Clause 8.0 - Works risk</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/6	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item		
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1/1/7	<p>Clause 10.0 - Insurances</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/8	<p>Clause 11.0 - Security</p> <p>Security for payment</p> <p>The employer shall provide to the contractor security for payment in the amount of N/A..... Rand (R.....) [11.4.1,11.10]</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>Errata by JBCC</p> <p>Clause 11.5 Replace "ten (10)" with "five (5)"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/9	<p><u>Execution (A12 - A17)</u></p> <p>Clause 12.0 - Duties of the parties</p> <p>Provisions of clauses 12.1.2 to 12.1.6 and 12.2.18</p> <p>Refer to the contract data, the Preliminaries document and "Section B : Preliminaries" of this Bill No. 1 with reference to the provisions of clauses 12.1.2 to 12.1.6 and 12.2.18 of the JBCC Principal Building Agreement</p> <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>			
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<p style="text-align: center;">Brought Forward</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><i>Should access to water, sewer, stormwater and/or electricity connections not be identifiable due to such information not being available or the specific requirements of the contractor cannot be determined, then the following clause may be considered in which event a qualified tender may be expected</i></p> <p>Access to water, sewer, stormwater and electricity connections</p> <p>The employer is not in a position to identify access to water, sewer, stormwater and/or electricity connections to the site as may be suitable for the execution of the works. The contractor is to allow what he considers to be required and is to qualify his tender in detail in this regard, failing which it shall be taken that the contractor has allowed what will be required for the execution of the works. In such case no claims for additional cost or loss shall be entertained [12.1.5]</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 [12.1.6]</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>			R	
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	<p>Errata by JBCC</p> <p>Clause 12.2.17 Omit the words "[CD] within ten (10) working days"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/10	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/11	<p>Clause 14.0 - Nominated subcontractors</p> <p>Errata by JBCC</p> <p>Clause 14.1.4 Reference should read "[17.1.14]" Clause 14.6 Reference should read "[17.1.15; 27.1.8]" Clause 14.7.2 Reference should read "[27.1.8]" Clause 14.7.3 Reference should read "[27.2.8]"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/12	<p>Clause 15.0 - Selected subcontractors</p> <p>Errata by JBCC</p> <p>Clause 15.2 Reference should read "[17.1.14]" Clause 15.7.2 Reference should read "[27.1.8]" Clause 15.7.3 Reference should read "[27.2.8]"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/13	<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 2. Allow the use of personnel welfare facilities, where provided 			
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	<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>Errata by JBCC</p> <p>Clause 16.1.3 Reference should read "[26.5]"</p> <p>F:..... V:..... T:.....</p>			
1/1/14	<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>Errata by JBCC</p> <p>Clause 17.1.3 Reference should read "[13.2.4]"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/15	<p><u>Completion (A18 - A24)</u></p> <p>Clause 18.0 - Interim completion</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/16	<p>Clause 19.0 - Practical completion</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/17	<p>Clause 20.0 - Sectional completion</p>			
	Carried Forward		R	
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	Brought Forward		R	
	<p>Errata by JBCC</p> <p>Clause 20.2.2 Reference should read "[21.6.2]"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/18	<p>Clause 21.0 - Defects liability period and final completion</p> <p>Errata by JBCC</p> <p>Clause 21.1 Delete the word "final" in the second last line Reference should read "[21.6.1]"</p> <p>Clause 21.9 Reference should read "[21.4 ; 21.6.1]"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/19	<p>Clause 22.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/20	<p>Clause 23.0 - Revision of 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> <p>Errata by JBCC</p> <p>Clause 23.2 Reference should read "[26.7]"</p> <p>Clause 23.2.1 Reference should read "[12.1.7]"</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/21	<p>Clause 24.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/22	<p>Payment (A25 - A27)</p> <p>Clause 25.0 - Payment</p>			
	Carried Forward		R	
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	Brought Forward		R	
	<p>Materials and goods prematurely on site</p> <p>Materials and goods brought onto the site prematurely shall not be authorised for payment [25.3.2]</p> <p>Materials and goods stored off site</p> <p>Materials and goods stored off site shall not be authorised for payment [25.3.2]</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 [25.3.4]</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>Errata by JBCC</p> <p>Clause 25.2 The word : "final" in bold in the second line Clause 25.10.3 Reference should read "[25.13 ; 26.10]" New clause 25.12.4 Add the words : "Terminate the agreement [29.14.7] where the listed options [25.12.1-3] have failed"</p> <p>F:..... V:..... T:.....</p>			
1/1/23	<p>Clause 26.0 - Adjustment of the contract value and final account</p>	Item		
	Carried Forward		R	
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<p style="text-align: center;">Brought Forward</p> <p>Tenant installations/users requirements delayed</p> <p>There is a possibility that certain works related to tenant installations/users requirements may have to be delayed and may consequently not be executed prior to practical completion</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>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>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> <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>Errata by JBCC</p> <p>Clause 26.4.2 Omit the entire clause and renumber thereafter New clause 26.4.3 "Other proven or unavoidable costs"</p> <p>F:..... V:..... T:.....</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 HTN</p>			R	

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	Brought Forward		R	
1/1/24	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p> <p><u>Suspension and termination (A28 - A29)</u></p>	Item		
1/1/25	<p>Clause 28.0 - Suspension by the contractor</p> <p>Errata by JBCC</p> <p>New clause 28.1.5 and renumber thereafter "Or where an agent has failed to act in terms of this agreement [6.4]</p> <p>Clause 28.2 Replace the word "defect" with "default" in the first line</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/26	<p>Clause 29.0 - Termination</p> <p>Errata by JBCC</p> <p>Clause 29.1.2 Delete the words : "within the period stated [CD]"</p> <p>Clause 29.14.1 Change as follows : "Provide or maintain a guarantee for payment.....[11.4 - 5]"</p> <p>Clause 29.14.2 Reference should read "[12.1.7]"</p> <p>New clause 29.14.8 "Or where an agent has failed to act in terms of this agreement [6.4]"</p> <p>F:..... V:..... T:.....</p> <p><u>Dispute resolution (A30)</u></p>	Item		
1/1/27	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/28	<p>Agreement</p> <p>The second sentence of the introduction where the parties sign the agreement, namely "Any provision in this agreement..... acceptance by such subcontractor at any time." is deemed to be deleted</p>			
	Carried Forward		R	
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	Brought Forward		R	
1/1/29	<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> <p>Contract data</p> <p>Payment of preliminaries</p> <p>Where Option B is applicable and the initial construction period is extended the monthly charge shall be recalculated on the same basis as was initially applied but taking into account the revised construction period and the amounts already paid to the contractor [CD26.0]</p> <p>Adjustment of preliminaries</p> <p>Where the adjustment of preliminaries is in terms of Option A, the construction period and the initial construction period shall be calculated in working days [CD 26.0]</p> <p>Where the adjustment of preliminaries is in terms of Option A and sectional completion is required, the contractor shall provide the principal agent with the division of the categorised amounts into sections. Should the contractor fail to provide such information within the period stipulated, the categorised amounts shall be prorated to the value of each section [CD 26.0]</p> <p>Where the adjustment of preliminaries is required in terms of Option B and sectional completion is required, the contractor shall provide the principal agent with details of the resources required for each section and those that are common to sections. Should the contractor fail to provide such information within the period stipulated, Option A shall apply [CD 26.0]</p> <p>Removal of lateral support insurance</p> <p>Whilst it is stated in clause 10.0 of the contract data that the employer will not be responsible for works and other insurances the employer shall nevertheless be responsible for the removal of lateral support insurance in the amount stated</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<p>Tenderers selection</p> <p>Before submission of his tender the contractor is to complete the tenderers selection in the contract data</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><u>SECTION B: PRELIMINARIES</u></p> <p><u>Interpretation (B1)</u></p>			
1/1/30	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/31	<p>Clause 1.2 - Interpretation</p> <p>F:..... V:..... T:.....</p>	Item		
	<p><u>Documents (B2)</u></p>			
1/1/32	<p>Clause 2.1 - Checking of documents</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/33	<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 provisional sums</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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1/1/34	<p>Clause 2.3 - Availability of construction information</p> <p>Budgetary allowances and provisional sums</p> <p>The provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/35	<p>Clause 2.4 - Ordering of materials and goods</p> <p>F:..... V:..... T:.....</p> <p><u>Previous work and adjoining properties (B3)</u></p>	Item		
1/1/36	<p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/37	<p>Clause 3.2 - Previous work - defects</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/38	<p>Clause 3.3 - Inspection of adjoining properties</p> <p>F:..... V:..... T:.....</p> <p><u>The site (B4)</u></p>	Item		
1/1/39	<p>Clause 4.1 - Defined works area</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/40	<p>Clause 4.2 - Handover of site in stages</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/41	<p>Clause 4.3 - Enclosure of the works</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/42	<p>Clause 4.4 - Geotechnical investigation</p> <p>F:..... V:..... T:.....</p>	Item		
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	Brought Forward		R	
1/1/43	Clause 4.5 - Encroachments F:..... V:..... T:.....	Item		
1/1/44	Clause 4.6 - Existing premises occupied F:..... V:..... T:.....	Item		
1/1/45	Clause 4.7 - Services - known F:..... V:..... T:.....	Item		
1/1/46	Clause 4.8 - Protection of trees and/or relevant natural features F:..... V:..... T:.....	Item		
	<u>Management of contract (B5)</u>			
1/1/47	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item		
1/1/48	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
1/1/49	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>			
1/1/50	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item		
1/1/51	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item		
1/1/52	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item		
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Brought Forward			R
1/1/53	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:..... <u>Deposits and fees (B7)</u>	Item	
1/1/54	Clause 7.1 - Deposits and fees F:..... V:..... T:..... <u>Temporary services (B8)</u>	Item	
1/1/55	Clause 8.1 - Water F:..... V:..... T:.....	Item	
1/1/56	Clause 8.2 - Electricity F:..... V:..... T:.....	Item	
1/1/57	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item	
1/1/58	Clause 8.4 - Communication facilities F:..... V:..... T:..... <u>Prime cost amounts (B9)</u>	Item	
1/1/59	Clause 9.1 - Responsibility for prime cost amounts <i>Where details of materials for which prime cost amounts are to be allowed <u>are</u> readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc</i> F:..... V:..... T:.....	Item	
Carried Forward			R
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	Brought Forward		R	
	<u>Attendance on subcontractors (B10)</u>			
1/1/60	Clause 10.1 - General attendance F:..... V:..... T:.....	Item		
1/1/61	Clause 10.2 - Special attendance <i>It is important to note that general attendance only requires the contractor to "permit the subcontractor 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" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill</i> F:..... V:..... T:.....	Item		
	<u>General (B11)</u>			
1/1/62	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item		
1/1/63	Clause 11.2 - Protection/isolation of existing/sectionally occupied works F:..... V:..... T:.....	Item		
1/1/64	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item		
1/1/65	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item		
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Brought Forward			R
1/1/66	Clause 11.5 - Disturbance F:..... V:..... T:.....	Item	
1/1/67	Clause 11.6 - Environmental disturbance F:..... V:..... T:.....	Item	
1/1/68	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	
1/1/69	Clause 11.8 - Vermin F:..... V:..... T:.....	Item	
1/1/70	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item	
1/1/71	Clause 11.10 - Tenant installations by direct contractors F:..... V:..... T:.....	Item	
1/1/72	Clause 11.11 - Advertising F:..... V:..... T:.....	Item	
	<u>Preliminaries schedule (B12)</u>		
1/1/73	Information for completion of the preliminaries schedule Information necessary for elections and completion of those clauses contained in the preliminaries schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract 12.1 - Provisional bills of quantities [2.2] The quantities are provisional Yes		
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	Brought Forward		R
12.2 - Availability of construction information [2.3] Construction documentation is complete Yes			
12.3 - Previous work - dimensional accuracy [3.1]			
12.4 - Previous work - defects [3.2]			
12.5 - Inspection of adjoining properties [3.3]			
12.6 - Defined works area [4.1]			
12.7 - Handover of site in stages [4.2]			
12.8 - Enclosure of the works [4.3]			
12.9 - Geotechnical investigation [4.4]			
12.10 - Existing premises occupied [4.6]			
12.11 - Services - known [4.7]			
12.12 - Protection of trees and/or relevant natural features [4.8]			
12.13 - Water [8.1] Option A (by contractor) Yes Option B (by employer - free of charge) No Option C (by employer - metered) No			
12.14 - Electricity [8.2] Option A (by contractor) Yes Option B (by employer - free of charge) No Option C (by employer - metered) No			
	Carried Forward		R
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<p style="text-align: center;">Brought Forward</p> <p>12.15 - Ablution and welfare facilities [8.3]</p> <p style="padding-left: 20px;">Option A (by contractor) Yes Option B (by employer) No</p> <p>12.16 - Communication facilities [8.4]</p> <p>12.17 - Protection of the works [11.1]</p> <p>12.18 - Protection/isolation of existing/sectionally occupied works [11.2]</p> <p style="padding-left: 20px;">Protection/isolation is required YES</p> <p>12.19 - Disturbance [11.5]</p> <p>12.20 - Environmental disturbance [11.6]</p> <p>Controlling all forms of pollution</p> <p>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 <i>inter alia</i> to noise, artificial light, wind-blown sand, dust, deposits of mud, etc</p> <p>The contractor is to ensure that all roads which border the site and is 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 contractor needs to prepare environmental management plan (EMP). The contractor shall price according this item for compliance with all the requirements of such EMP</p> <p>F:..... V:..... T:.....</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 HTN</p>		Item	R	

Brought Forward			R
<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
1/1/74	<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 doing the work and shall deliver same to the principal agent on the 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>	Item	
1/1/75	<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>	Item	
1/1/76	<p>Co-operation 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>	Item	
Carried Forward			R
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	Brought Forward		R	
1/1/77	<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>	Item		
1/1/78	<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>	Item		
1/1/79	<p>Testing of flat roof waterproofing for water tightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the water tightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/80	<p>Green star building certification</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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Brought Forward			R
1/1/81	<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>	Item	
1/1/82	<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. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting the obligations under this agreement</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/83	<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>	Item	
Carried Forward			R
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	Brought Forward		R	
1/1/84	<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> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	Item		
1/1/85	Total Amount for Preliminaries and Generals	%		
	Carried Forward to Summary of Section No. 1		R	
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Item No	Quantity	Rate	Amount
<p><u>BILL NO. 2</u></p> <p><u>ALTERATIONS</u></p> <p><u>NOTES</u></p> <p>Tenderers are advised to study the "Model Preambles for Trades 1999" before pricing this schedule.</p> <p><u>Site inspection</u></p> <p>Contractors are required to inspect the site and acquaint themselves with all aspects of the works to be executed under this contract prior to the submission of their tender. No claim whatsoever will be entertained in the event of any unforeseen difficulties arising during the execution of the contract that could have been foreseen by a thorough investigation of the site, drawings and specifications.</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the Works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants/occupants. He/She shall provide proper protection and provide, erect and maintain in position proper temporary tarpaulins that may be necessary to protect existing fixtures, fittings and furniture during the progress of the works and remove on completion or when directed, all to the satisfaction of the Project Manager/Principal Agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and proper fittings, to the satisfaction of the Project Manager/Principal Agent</p>			
Carried Forward			R
<p>Section No. 1 Bill No. 2 HTN</p>			

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<p style="text-align: center;">Brought Forward</p> <p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before re-fixing, including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-vanishing is given separately</p> <p>Prices for taking out doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing</p> <p>With regards to building up of openings in existing walls, cement screeds and paving, granolithic, tops of walls, etc. shall be levelled and prepared for raising of brickwork</p> <p>Making good finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (Doors, windows, fittings, etc)</p> <p><u>TEMPORARY BARRIERS, SCREENS ETC</u></p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 2 HTN</p>			R	

**THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
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	Brought Forward			R
	<u>Temporary barriers, screens, etc including removal</u>			
1/2/1	Dust screen 3000mm high between concrete floor and ceiling formed of suitable timber framing with 250 micron polyethylene sheeting stapled on including corners, ends, etc.	m	100	
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u>			
1/2/2	Corrugate sheet iron roof covering, valley linings, ridge flashings and timber purlins	m2	200	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 2			
	HTN			

**THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>EARTHWORKS</u>			
	<u>FOUNDATIONS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'hard rock' or 'soft rock'. Refer to soil report for details???			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<u>Filling</u>			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material			
	<u>EXCAVATIONS</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1/3/1	Trenches	m3	8	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
1/3/2	Soft rock	m3	1	
1/3/3	Hard rock	m3	1	
	Carried Forward			R
	Section No. 1 Bill No. 3 HTN			

**THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
REFURBISHMENT OF BIOGAS BUILDING**

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
1/3/4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	4
<u>Risk of collapse of excavations</u>			
1/3/5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	22
<u>Keeping excavations free of water</u>			
1/3/6	Keeping excavations free of water other than subterranean water		Item
<u>FILLING ETC</u>			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>			
1/3/7	Backfilling to trenches, holes, etc	m3	4
<u>Compaction of surfaces</u>			
1/3/8	Compaction of ground surface under trenches etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	8
<u>Prescribed density tests on filling</u>			
1/3/9	"Modified AASHTO Density" test (Provisional)	No	1
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
1/3/10	To bottoms and sides of trenches etc	m2	30
Carried Forward to Summary of Section No. 1			R
Section No. 1			
Bill No. 3			
HTN			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 4</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 'Tests' of 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Principal Agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as 'left in' or 'permanent'), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formworks to soffits of solid, etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p><u>REINFORCED CONCRETE</u></p>			
	Carried Forward		R	
	<p>Section No. 1 Bill No. 4 HTN</p>			

THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
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Brought Forward			R
	<u>25MPa/19mm concrete</u>		
1/4/1	Strip	m3	2
	<u>TEST CUBES</u>		
1/4/2	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Representative/Agent. Only successful tests will be paid for (<u>Provisional</u>)	No	1
	<u>Expansion joints with softboard between vertical concrete and brick surfaces</u>		
1/4/3	20mm thick bitumen treated softboard joints not exceeding 300mm high or wide	m	22
	<u>Two part grey polyphosphide sealing compound including backing cord, bond breakers, primers, etc</u>		
1/4/4	8 x 15mm deep in expansion joints in floors including raking out expansion joint filler as necessary	m	22
	<u>Steel reinforcement to structural concrete work in various diameter bars</u>		
1/4/5	Reinforcement bars in various diameter	t	0.30
Carried Forward to Summary of Section No. 1			R
Section No. 1			
Bill No. 4			
HTN			

**THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
REFURBISHMENT OF BIOGAS BUILDING**

Item No	Quantity	Rate	Amount
<p><u>BILL NO. 5</u></p> <p><u>MASONRY</u></p> <p>Tenderers are advised to study the "Model Preambles for Trades 1999" before pricing this schedule.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Size and descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "One brick" shall represent length and "Half brick" the width of a brick</p> <p><u>Hollow walls, etc</u></p> <p>Description of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>User Note</u></p> <p>The following preamble generally applies for works in hot and humid coastal areas</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried Forward		R
<p>Section No. 1 Bill No. 5 HTN</p>			

<p style="text-align: center;">Brought Forward</p> <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 are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 14MPa</p> <p><u>Wall ties for blockwork</u></p> <p>Wall ties shall be polypropylene ties complying with BS76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other</p> <p><u>Blockwork</u></p> <p>Blockwork shall comply with SANS 10145 "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>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 5 HTN</p>			R	

Brought Forward				R
<u>Standard complementary blocks</u>				
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				
<u>DECORATIVE BLOCKS</u>				
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour				
<u>BRICKWORK</u>				
<u>FOUNDATIONS</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
1/5/1	230mm thick brick wall	m2	9	
<u>SUPERSTRUCTURE</u>				
<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class II mortar</u>				
1/5/2	230mm thick brick wall	m2	88	
<u>BRICKWORK SUNDRIES</u>				
<u>Brickwork reinforcement</u>				
1/5/3	230mm Wide reinforcement built in horizontally	m	285	
<u>Prestressed concrete fabricated lintels</u>				
1/5/4	110 x 70mm Lintels in lengths not exceeding 3m	m	14	
<u>FACE BRICKWORK</u>				
Carried Forward				R
Section No. 1 Bill No. 5 HTN				

THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
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	Brought Forward			R	
	<u>Corobrik Roan Travertine FBX facebrick or equal approved clay face brick, size 222 x 106 x 73mm, bedded and jointed in Class I mortar and pointed with flush vertical and flush horizontal joints, suitable for exposure zone 1-3</u>				
1/5/5	Extra over brickwork for face brickwork in foundations	m2	3		
1/5/6	Extra over brickwork for face brickwork	m2	88		
1/5/7	Extra over brickwork for brick on edge	m	8		
	<u>WINDOW CILLS</u>				
1/5/8	Brick on edge external window cills	m	6		
1/5/9	Cutting toothings and bonding new brickwork to existing	m2	4		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 5				
	HTN				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>WATERPROOFING</u></p> <p>Tenderers are advised to study the "Model Preambles for Trades 1999" before pricing this schedule.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Waterproofing to 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. Description of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 250 micron "Consol Plastics Brikgrip DPC" embossed damp proof course or similar approved</u></p>			
1/6/1	In walls	m2	3	
	<p>Carried Forward to Summary of Section No. 1</p> <p>Section No. 1 Bill No. 6 HTN</p>			R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 7</u>			
	<u>TRUSS CONSTRUCTION, ROOF COVERINGS, ETC</u>			
	<u>ROOF COVERINGS</u>			
	Tenderers are advised to study the "Model Preambles for Trades1999" before pricing this schedule.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Straight cutting</u>			
	Description of all roof coverings are deemed to include for all straight cutting			
	<u>Safintra 0.50mm thick Saflok 700 Colorplus AZ 150 interlocking roof sheeting fixed to steel internal purlins at 1900mm centres and ridge/eave purlins at 1700mm centres using Saflok 700® clips which are fastened to steel purlins with Fixtite or Safintra approved wafer head self-tapping fasteners, all in accordance with the manufacturer 's recommendation, on galls wool ceiling insulation 135mm knauf, on reflective insulation double sided foil. Steel trusses to engineers detail and specifications. Roof pitch 3°</u>			
1/7/1	Roof coverings with pitches not exceeding 30 degrees	m2	24	
1/7/2	Cladding	m2	150	
1/7/3	Hip capping 462mm girth	m	66	
	<u>FACIAS, BARGE BOARDS, ETC:</u>			
	<u>Nutec or equally approved pressed fibre-cement with standard cover or jointing strips</u>			
1/7/4	15 x 300mm Fascias boards including standard jointing strips (As per Architecture spec)	m	35	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1 Bill No. 7 HTN			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>METALWORK</u></p> <p>Tenderers are advised to study the "Model Preambles for Trades 1999" before accepting and signing for this Schedule.</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 an chemical anchors and bolts shall be deemed to include nuts, washers and mortises in brickwork or concrete</p> <p>Metalwork described as "holed for bolts(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>ALUMINIUM WINDOWS</u></p>			
1/8/1	2100 x 900 Aluminium Window	No	3	
	Carried Forward to Summary of Section No. 1			R
	<p>Section No. 1</p> <p>Bill No. 8</p> <p>HTN</p>			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>NB:</u></p> <p>ALL ITEMS CLAIMED FROM THIS BILL TO BE APPROVED BY GROUP HEAD STRATEGIC SUPPLY CHAIN MANAGEMENT (SSCM). 3 QUOTATIONS FROM LEGITIMATE SERVICE PROVIDERS. QUOTATIONS TO HAVE A COST BREAKDOWN</p> <p><u>PROVISIONAL SUMS, ETC.</u></p> <p>"HOW TO IMPLEMENT PRIME COST": THIS IS WHERE A SERVICE IS PROVIDED BY ANOTHER SERVICE PROVIDER. IN THIS CASE, THE MAIN CONTRACTOR SHALL BE ENTITLED TO CHARGE PROFITS AND ATTENDANCE</p> <p>Tenderers are advised to study the "Model Preambles for Trades 1999" before pricing this schedule.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Works listed under the heading 'SPECIALIST SUB-CONTRACTORS' are works that will commence during the execution of various contracts and the contractor shall allow free access to the site for these specialist contractors. The contractor shall prepare a programme in conjunction with these sub-contractors in order to complete the works successfully. Payment to the specialist sub-contractor will be made via the contractor. The estimated value of these works will vary between the different contracts. However, the tenderer is to list his/her profit and attendance percentage in the rate column, if required</p> <p><u>SPECIALIST SUB-CONTRACTORS</u></p>			
	Carried Forward		R	
	<p>Section No. 1 Bill No. 9 HTN</p>			

**THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
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Brought Forward			R
<u>ROLLER SHUTTER DOOR</u>			
1/9/1	Maintenance for roller shutter doors approved sub contractor	Item	10,000.00
1/9/2	Allow for profit (insert percent only in rate column)		%
1/9/3	Allow for attendance (insert percent only in rate column)		%
<u>ELECTRICAL INSTALLATION</u>			
1/9/4	For the supply, delivery to site of the electrical reticulation including light fittings, etc and installed by an approved sub contractor	Item	10,000.00
1/9/5	Allow for profit (insert percent only in rate column)		%
1/9/6	Allow for attendance (insert percent only in rate column)		%
<u>CORROSION TREATMENT</u>			
1/9/7	For the manufactured, delivered to site of security gates, screens, roller shutters and grilles and the erection by an approved sub contractor	Item	50,000.00
1/9/8	Allow for profit (insert percent only in rate column)		%
1/9/9	Allow for attendance (insert percent only in rate column)		%
Carried Forward to Summary of Section No. 1			R
Section No. 1			
Bill No. 9			
HTN			

**THE COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH
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	Section No. 1			
	Bills of Quantities			
	<u>SECTION SUMMARY - Bills of Quantities</u>			
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1/3	Earthworks	42		
1/4	Concrete, Formwork and Reinforcement	44		
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1/6	Waterproofing	49		
1/7	Roof Coverings	50		
1/8	Metalworker	51		
1/9	Provisional Sums	53		
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Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	Bills of Quantities	54		
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	ADD: Value-Added Tax @ 15%		R	
	Sub-Total		R	
	Carried to Form of Tender		R	
	HTN			