

Item No		Amount	
	<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 (refer to JBCC & Tender Document)</p> <p>Section C : A recital of the headings of the individual special clauses to meet the particular circumstances of the project (refer to Tender Document)</p> <p>Section D : A recital of the headings of the individual special clauses to meet the particular circumstances of the project for OHS (refer to OHS Specification Document)</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Option A in the contract data applies 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>		
1	<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>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 style="text-align: right;">Carried to Collection R</p> <p>Section No. 1 Bill No. 1 Preliminaries (Section A)</p>		

Item No		Amount	
	<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> <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>		
	<p style="text-align: right;">Carried to Collection</p>	R	
	<p>Section No. 1 Bill No. 1 Preliminaries (Section A)</p>		

Item No		Amount	
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>F:..... V:..... T:.....</p> <p><u>Execution (A12 - A17)</u></p>		
12	<p>Clause 12.0 - Obligations of the parties</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 and maintain until practical completion office accommodation with tables and chairs for meetings to be held on the site. The contractor shall also provide adequate office space for the CLO and resident engineer. 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 style="text-align: right;">Carried to Collection</p>	R	
	<p>Section No. 1 Bill No. 1 Preliminaries (Section A)</p>		

Item No		Amount	
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 2</u></p> <p><u>SECTION B - JBCC PRELIMINARIES</u></p> <p><u>Definitions and interpretation (B1)</u></p> <p>1 Clause 1.1 - Definitions F:..... V:..... T:.....</p> <p>2 Clause 1.2 - Interpretation F:..... V:..... T:.....</p> <p><u>Documents (B2)</u></p> <p>3 Clause 2.1 - Checking of documents F:..... V:..... T:.....</p> <p>4 Clause 2.2 - Provisional bills of quantities These bills of quantities are provisionally measured. F:..... V:..... T:.....</p> <p>5 Clause 2.3 - Availability of construction information</p> <p>6 The budgetary allowances and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period F:..... V:..... T:.....</p> <p>7 Clause 2.4 - Ordering of materials and goods F:..... V:..... T:.....</p> <p><u>Previous work and adjoining properties (B3)</u></p> <p>8 Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....</p> <p style="text-align: right;">Carried to Collection R</p> <p>Section No. 1 Bill No. 2 JBCC Preliminaries (Section B)</p>		

Item No		Amount	
9	Clause 3.2 - Previous work - defects F:..... V:..... T:.....		
10	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <u>The site (B4)</u>		
11	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....		
12	Clause 4.2 - Enclosure of the works F:..... V:..... T:.....		
13	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....		
14	Clause 4.4 - Encroachments F:..... V:..... T:.....		
15	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....		
16	Clause 4.6 - Services - known F:..... V:..... T:..... <u>Management of contract (B5)</u>		
17	Clause 5.1 - Management of the works F:..... V:..... T:.....		
18	Clause 5.2 - Progress meetings F:..... V:..... T:.....		
19	Clause 5.3 - Technical meetings F:..... V:..... T:.....		
	<div>Carried to Collection</div> <div>Section No. 1</div> <div>Bill No. 2</div> <div>JBCC Preliminaries (Section B)</div>	R	

Item No		Amount
	Samples, shop drawings and manufacturer's instructions (B6)	
20	Clause 6.1 - Samples of materials Contractor to provide costs of samples and sample panels at it's own cost. F:..... V:..... T:.....	
21	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	
22	Clause 6.3 - Shop drawings F:..... V:..... T:.....	
23	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	
	Deposits and fees (B7)	
24	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	
	Temporary services (B8)	
25	Clause 8.1 - Water F:..... V:..... T:.....	
26	Clause 8.2 - Electricity F:..... V:..... T:.....	
27	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	
28	Clause 8.4 - Communication facilities F:..... V:..... T:.....	
	Prime cost amounts (B9)	
29	Clause 9.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	
	Carried to Collection	R
	Section No. 1 Bill No. 2 JBCC Preliminaries (Section B)	

Item No		Amount
	<u>Attendance on subcontractors (B10)</u>	
30	Clause 10.1 - General attendance F:..... V:..... T:.....	
31	Clause 10.2 - Special attendance F:..... V:..... T:.....	
	<u>General (B11)</u>	
32	Clause 11.1 - Protection of the works The Contractor shall provide, erect, maintain and afterwards remove all tarpaulins, fans, weatherproof and dust proof screens and drop sheets or other methods of protection and provide any drains, trenches, etc., as directed or as may be necessary or as may be required by the Authorities to properly protect from damage to the Works, materials and property whether of the Employer, other owners or the general public, and to secure the safety and freedom from injury of all persons. F:..... V:..... T:.....	
33	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....	
34	Clause 11.3 - Security of the works Security to be provided by the contractor at his expense. F:..... V:..... T:.....	
35	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	
	Carried to Collection	R
	Section No. 1 Bill No. 2 JBCC Preliminaries (Section B)	

<div> <div>Section No. 1</div> <div>Bill No. 2</div> <div>JBCC Preliminaries (Section B)</div> <div><u>COLLECTION</u></div> </div>			
<div> <div>Section No. 1</div> <div>Bill No. 2</div> <div>JBCC Preliminaries (Section B)</div> </div>	<div> <div>Carried Forward to Summary of Section No. 1</div> <div>R</div> </div>		

Item No		Amount	
1	<u>SECTION NO. 1</u> <u>BILL NO. 3</u> <u>SECTION C - SPECIFIC PRELIMINARIES</u> Clause C1 - Contractor To Be Responsible The Contractor acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of work of this Contract. The Contractor shall therefore be solely responsible for all aspects of the construction of the Works including but not limited to management, resourcing, programming, co-ordination, etc., all as required for the type of project described within the time limits and quality standard specified. The Employer, Principal Agent and the other Consultants are in no way responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects in materials or workmanship, breach or neglect of any Local Authority Regulations. The Contractor remains at all times responsible for any such neglect, deviation or wrong act, whether the same be discovered before or after the Final Certificate, or any other Certificate is approved. The Contractor shall also comply with all legal and labour regulations. F:..... V:..... T:.....		
	Section No. 1 Bill No. 3 Special Preliminaries (Section C)	Carried to Collection R	

Item No		Amount	
2	<p>Clause C2 - Warranties</p> <p>Warranties shall be sought by the Principal Agent from all nominated or selected firms carrying out work or supplying goods.</p> <p>All warranties and guarantees issued by Subcontractors shall be underwritten by the Contractor.</p> <p>The Contractor shall obtain and hand over to the Principal Agent at practical completion, all relevant guarantees and maintenance instructions provided by manufacturers, suppliers or subcontractors, suitably filed together.</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>		
3	<p>Clause C3 - Indemnities</p> <p>Indemnities shall be sought by the Principal Agent from all Contractors undertaking any design responsibility.</p> <p>F:..... V:..... T:.....</p>		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1</p> <p>Bill No. 3</p> <p>Special Preliminaries (Section C)</p>	R	

Item No		Amount	
7	<p>Clause C7 - Interpretation Of Drawings, Specifications And Bills Of Quantities</p> <p>Should any part or parts of the Drawings, Specifications or Bills of Quantities not be clearly legible to the Contractor, or the material or articles to be used in the execution of the Works be considered insufficiently described or the manner in which the work is to be carried out not be clear, the Contractor must obtain from the Principal Agent the necessary information to clarify such Drawings, Specification, Bills of Quantities or instructions which request shall be in writing.</p> <p>The Contractor shall be held solely responsible for and shall, at his own expense, rectify any errors arising out of incorrect interpretation of the Drawings, Specifications, Bills of Quantities or instructions.</p> <p>F:..... V:..... T:.....</p>		
8	<p>Clause C8 - Ownership and Care of Drawings and Documents</p> <p>All drawings and documents are to be considered the sole property of the Employer and are to be returned to them on completion of the Works. The drawings, etc., are to be used by the Contractor for the purpose of this Contract only. All drawings must be properly cared for, protected and kept in good condition.</p> <p>F:..... V:..... T:.....</p>		
9	<p>Clause C9 - Checking of Drawings and Specifications</p> <p>Upon receipt of detail drawings for any work, the Contractor shall, before putting that work in hand, ascertain that the dimensions given on the detail drawings correspond with the dimensions of any work already built and which governs the sizes of any work for which details are now issued.</p> <p>In the event of the detail drawings not agreeing with the works already built, the discrepancy shall be brought to the Principal Agent's attention timeously and the detail drawings shall be returned at once for alterations.</p> <p>F:..... V:..... T:.....</p>		
10	<p>Clause C10 - Scale of Dimensions</p> <p>All dimensions will be figured on the drawings or may be calculated from figured dimensions and are always to be followed. No dimensions shall be obtained by scaling.</p> <p>F:..... V:..... T:.....</p>		
	<p style="text-align: right;">Carried to Collection</p>	R	
	<p>Section No. 1 Bill No. 3 Special Preliminaries (Section C)</p>		

Item No		Amount	
11	<p>Clause C11 - Contract Instructions</p> <p>Instructions issued on Site shall be recorded in a Contract instruction book supplied by the Contractor. Only site instructions issued in such book shall be recognised.</p> <p>Site instructions to the Contractor and various Sub-contractors may be issued only by the Principal Agent and shall be issued via the Contractor.</p> <p>F:..... V:..... T:.....</p>		
12	<p>Clause C12 - Encroachment by Contractor</p> <p>During the course of the building operations the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties or servitudes as a result of his default and the cost of any remedial measures arising there from as required by the Principal Agent shall be borne by the Contractor.</p> <p>F:..... V:..... T:.....</p>		
13	<p>Clause C13 - Security at Completion</p> <p>The Contractor shall account for and hand over to the Employer all keys, properly labelled with itemised schedule to be signed by the Employer as receipt.</p> <p>F:..... V:..... T:.....</p>		
14	<p>Clause C14 - Condemned Work</p> <p>The Contractor shall remove from the site all materials condemned by the Principal Agent, whether incorporated in the Works or not. He shall replace and re-execute such work in accordance with the Contract and without expense to the Employer.</p> <p>The Contractor shall also bear the expense (including Professional Fees) of making good all other work destroyed or damaged by such removal or replacement.</p> <p>F:..... V:..... T:.....</p>		
15	<p>Clause C15 - Labour Record</p> <p>The Contractor shall provide to the Principal Agent, at intervals to be agreed to by the Principal Agent, a written daily record, in schedule form, showing the number and descriptions of tradesmen and labourers currently employed on the Works, including those employed on subcontracts.</p> <p>F:..... V:..... T:.....</p>		
	<p style="text-align: right;">Carried to Collection</p>	R	
	<p>Section No. 1</p> <p>Bill No. 3</p> <p>Special Preliminaries (Section C)</p>		

Item No		Amount	
16	<p>Clause C16 - Plant Record</p> <p>The Contractor shall provide to the Principal Agent, at intervals to be agreed to by the Principal Agent, a written daily record, in schedule form, showing the number, type and capacity of all plant, excluding hand tools, currently employed on the Works.</p> <p>F:..... V:..... T:.....</p>		
17	<p>Clause C17 - Costs of Claims</p> <p>All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Principal Agent and/or Quantity Surveyor shall be borne by the Contractor.</p> <p>F:..... V:..... T:.....</p>		
18	<p>Clause C18 - Declaration of Insurance</p> <p>A declaration of insurance shall be sought by the Principal Agent from the party responsible for affecting the applicable insurance cover.</p> <p>F:..... V:..... T:.....</p>		
19	<p>Clause C19 - Insurances</p> <p>The Contractor warrants that he shall give all notices and shall observe all the terms and conditions and requirements of all insurances applicable to this Contract.</p> <p>Where the Contractor is responsible for the appointment of subcontractors then the Contractor shall:</p> <ol style="list-style-type: none"> 1. Ensure that potential and appointed subcontractors are aware of the whole content of Clauses 10.0, 11.1 and 12.1. 2. Enforce the compliance of subcontractors with these Clauses where applicable. <p>F:..... V:..... T:.....</p>		
		Carried to Collection	R
<p>Section No. 1</p> <p>Bill No. 3</p> <p>Special Preliminaries (Section C)</p>			

Item No		Amount	
23	<p>Clause C23 - Cleaning</p> <p>No claims for clearing or carting away any earth, rubbish or superfluous materials, including that of any Subcontractor, shall be accepted.</p> <p>All such materials must be cleared regularly at the end of each shift and in addition as and when directed by the Principal Agent. All electrical wiring must be protected from dust and water.</p> <p>Should the Contractor fail to carry out any or all of the above the Principal Agent will arrange for such clearing and cleaning as is necessary to be carried out by others and recover the cost as debits against Certificate Payments.</p> <p>F:..... V:..... T:.....</p>		
24	<p>Clause C24 - Subcontracting</p> <p>The Contractor takes full responsibility of managing all appointed sub-contractors. The Contractor must also include any overhead costs for these appointed sub-contractors.</p> <p>F:..... V:..... T:.....</p>		
25	<p>Clause C25 - Trade Names</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders.</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>F:..... V:..... T:.....</p>		
26	<p>Clause C26 - Temporary Protection</p> <p>Temporary protection, as per Engineers requirements of existing, roads, fencing, entrances, water, sewer, stormwater, telephone, electrical, etc. services to be affected by the works</p> <p>F:..... V:..... T:.....</p>		
	<p style="text-align: right;">Carried to Collection</p>	R	
	<p>Section No. 1</p> <p>Bill No. 3</p> <p>Special Preliminaries (Section C)</p>		

Item No		Amount	
27	<p>Clause C27 - 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>		
28	<p>Clause C28 - Proprietary Branded Products</p> <p>The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative</p> <p>F:..... V:..... T:.....</p>		
29	<p>Clause C29 - 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>		
30	<p>Clause C30 - 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>		
31	<p>Clause C31 - 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>		
	Carried to Collection	R	
	Section No. 1		
	Bill No. 3		
	Special Preliminaries (Section C)		

Item No		Amount	
32	<p>Clause C32 - 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 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>		
33	<p>Clause C33 - Accommodation of traffic for construction works</p> <p>Contractor to provide a traffic management plan</p> <p>Including barriers, temporary signage, flagman, traffic management plan, temporary road markings, etc. at the contractors costs</p> <p>F:..... V:..... T:.....</p>		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 3 Special Preliminaries (Section C)</p>	R	

Item No		Amount	
34	<p>Clause C34 - Dayworks</p> <p>Where in the opinion of the Principal Agent any extra work cannot properly be measured or valued, the Contractor will be allowed daywork prices therefore calculated upon the costs defined hereunder together with the stated percentages. The total thus arrived at shall be the total amount recoverable by the Contractor for performing such work.</p> <ol style="list-style-type: none"> 1. The costs to the Contractor or sub-contractor of materials, being the net cost (at current market prices) actually paid for such materials after the deduction of cash discounts or if materials are supplied from the Contractor's or sub-contractor's stock then the cost of such materials shall be based upon the current market price plus the cost of delivery to Site; to which net cost 10% thereof shall be added. 2. The cost of labour to the Contractor or sub-contractor, being all items of direct cost of labour actually remunerated to the workmen concerned which shall include the cost of all allowances in terms of the industrial Conciliation Act (where applicable) or any other wage determination applying in the area where the daywork is executed: to which labour cost 10% shall be added. Hourly base rates for labour shall be the current market rates for labour based upon standard working hours and shall be applied in respect of the time spent by workers directly engaged on the particular day works including any operator's mechanical plant and transport and erecting and dismantling other plant. If a claim is made that individual workmen have been paid wages and allowances in excess of the minimum legalised rates, then proof must be furnished that such workmen had been so paid prior to the commencement of the daywork referred to. <p>F:..... V:..... T:.....</p>		
35	<p>Clause C35 - Waste Management Plan</p> <p>The Contractor must compile and implement a comprehensive project-specific Waste Management Plan (WMP).</p> <p>Waste Management Plan must describe how all generated waste is monitored, which types of waste will be collected for recycling or for reuse, how recycling will occur, and who is responsible for the various aspects of the plan. The Contractor must retain all waste records and issues reports to the building owner. The Contractor is required to recycle or reuse all demolition and construction waste, excluding any waste that is not normally sent to landfill such as soil (from land clearing and excavation activities), land clearing debris, and waste that legally must be withheld from general construction waste (i.e. asbestos) The waste management plan should include instructions to crew and sub-contractors on recycling and reuse procedure. The waste management plan is to be developed prior to construction start, and is to be implemented for the entire construction duration</p> <p>F:..... V:..... T:.....</p>		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No. 3 Special Preliminaries (Section C)</p>	<p style="text-align: right;">R</p>	

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36	<p>Clause C36 - Hours of Work</p> <p>The construction period is very stringent. All relevant legislatures must be complied with in terms of the hours worked for the day, week and month. All demolition, stripping of existing finishes, noisy work must be programmed. 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>		
37	<p>Clause C37 - After Hours Work</p> <p>The contractor must seek permission from the employer to work after hours and on weekends. After hours are from 6pm to 6am on weekdays and Saturdays and Sundays</p> <p>F:..... V:..... T:.....</p>		
38	<p>Clause C38 - Site Security</p> <p>The Contractor's labour must be restricted to the immediate working areas or specified access thereto. Any workman found in any other part of the estate may be immediately removed from the premises by the management. The Contractor shall always strictly exclude all unauthorised persons from the Works and the Site and shall set up notice boards to that effect</p> <p>F:..... V:..... T:.....</p>		
39	<p>Clause C39 - 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>		
	<p style="text-align: right;">Carried to Collection</p>	R	
	<p>Section No. 1 Bill No. 3 Special Preliminaries (Section C)</p>		

Item No		Amount	
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 4</u></p> <p><u>OHS REQUIREMENTS (SECTION D)</u></p> <p>NOTE</p> <p>Tenderers/Contractors are advised to study the HEALTH AND SAFETY SPECIFICATION in TERMS of the OCCUPATIONAL HEALTH and SAFETY ACT and REGULATIONS (OHS ACT), ACT NO 85 OF 1993</p> <p><u>Health and Safety Requirements</u></p> <p><u>Should the contractors identify any other items that they need to price to comply, they should allow for such items in the space allowed for below. The Employer will not accommodate any additional claims due to this.</u></p> <p>1 Requirements regarding the Health and Safety Plan/file as Clause 7.1</p> <p>2 Requirements regarding internal OHS audits and recovery plans as per Clause 7.1.1.3</p> <p>3 Full time/part time Construction Health & Safety Officer as per Clause</p> <p>4 Requirements regarding internal OHS audits and recovery plans as per Clause 7.1.1.3</p> <p>5 Requirements regarding Health and Safety Training as per Clause 7.1.2</p> <p>6 Requirements regarding health and safety incident/accident investigation and reporting as per Clause</p> <p>7 Requirements regarding access card as per Clause</p> <p><u>Requirements regarding Health and Safety Site requirements</u></p> <p>8 a. Administration Clause 7.1.3.1</p> <p>9 b. Health and safety programme Clause 7.1.3.2</p> <p>10 c. Personal protective equipment for employees and visitors Clause 7.1.3.3</p> <p>11 d. Provision of employees site facilities Clause 7.1.3.4</p> <p>12 e. OHS Signage Clause 7.1.3.5</p> <p>13 f. OHS Notice Board Clause 7.1.3.6</p> <p style="text-align: right;">Carried to Collection R</p> <p>Section No. 1 Bill No. 4 OHS Requirements (Section D)</p>		

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Bill No	<u>SECTION SUMMARY - Preliminaries</u>	Page No		Amount	
1	Preliminaries (Section A)	15			
2	JBCC Preliminaries (Section B)	22			
3	Special Preliminaries (Section C)	37			
4	OHS Requirements (Section D)	40			
Section No. 1			R		
	Carried to Final Summary				

MHSC Office Renovation - Tuscany Office Park

Mechanical Services: HVAC

Bill of Quantities

Section 2 - Bill No.1: HVAC Installations


	Description	Unit	Qty	Rate	Total (excl VAT)
	<u>HVAC Installations</u>				
1.1	<u>MECHANICAL INSTALLATION</u> Supply, installation and commissioning of inverter type air conditioning units, complete, including the condenser unit (outdoor) & evaporator units (indoor), refrigeration and condensate drain piping, condensate drain pumps, insulation to refrigerant piping, inter connecting wiring, support brackets, Galvanised trunking for hiding pipe work, fittings, fire relay, etc. For pricing allow sufficient distance between indoor / outdoor unit, - (ø22 mm PVC pipe), power supply cable from local isolator to condenser & indoor units.				
1.1.1	<u>Ground floor</u>				
1.1.2	Hide Away - Split - 48 000 BTU - HAS-01 (Bulkhead Ceiling to be included)	No.	4		R
1.1.3	Cassette - Split - 24 000 BTU-CAS-02	No.	5		R
1.1.4	Cassette - Split - 18 000 BTU-CAS-01	No.	17		R
	<u>First floor & Loft</u>				
1.1.5	Hide Away - Split - 48 000 BTU - HAS-01	No.	1		R
1.1.6	Cassette - Split - 24 000 BTU-CAS-02	No.	19		R
1.1.7	Cassette - Split - 18 000 BTU-CAS-01	No.	28		R
1.1.8	Cassette - Split - 12 000 BTU-CAS-02	No.	3		R
	<u>Basement Floor</u>				
1.1.9	Midwall - Split - 55 000 BTU -HWS -01 + Drip Trays Supply and install class 2 copper piping, liquid and suction refrigeration piping to suit or as required for equivalent units above with armaflex insulation c/w bends, sufficient rodding eyes etc. pipe sizes as per OEM	No	2		R
1.1.10					
1.1.11	Gas/Liquid pipe size to suit 3.1.1 & 3.1.4	m	100		R
1.1.12	Gas/Liquid pipe size to suit 3.1.2 & 3.1.5	m	480		R
1.1.13	Gas/Liquid pipe size to suit 3.1.3 & 3.1.6	m	880		R
1.1.14	Gas/Liquid pipe size to suit 3.1.7	m	10		R
1.1.15	Supply and install PVC condensate piping for all units	m	1170		R
1.1.16	Supply and install Cable tray for piping installation in basement area	m	1170		R
1.1.17	Complete electrical installation for all units with all controls etc. + COC	No.	73		R
1.2	<u>RMF-01 Fan</u> For the complete supply, delivery and installation of an silent roof extraction air fan (350 l/s @ 90 Pa) complete installation with all associated electrical connections and timer connections, filters etc.	No.	2		R
1.3	<u>SAF-01 Fan</u> For the complete supply, delivery and installation of a silent supply air fan (350 l/s @ 90 Pa) complete installation with all associated electrical connections and timer connections, filters etc.	No.	10		R
1.3.1					
1.4	<u>Sound Attenuator</u>				
1.4.1	Diameter: Diameter to suit fan E, with flexible collars	No.	5		R
	Length: 600 mm				
	POD type				
	NC rating: 35				
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R
1.5	Ducting (Make provision for transformation pieces)				
	Low Pressure Galvanised ducting including flexible connections, transformation pieces, bends, shoe pieces, spigots, stop ends and all duct fittings as per to SANS 1238.				
1.5.1	D100	m	20		R
1.5.2	D200	m	50		R
1.5.3	D150	m	20		R
1.5.4	D250	m	10		R
1.5.5	250x200	m	30		R
1.5.6	350x250	m	50		R
1.5.7	400x400	m	60		R
1.6	DF - 01: Supply Air Diffuser				
	Constant volume ceiling diffuser powder coated standard white.				
1.6.1	Size: 250 mm Diameter Neck	No.	30		R
1.7	EV - 01: Extraction Valve				
	Extraction valve.				
1.7.1	Size: 150 mm Diameter Neck	No.	22		R
1.8	WL - 01: Weather Louvres				
1.8.1	For the complete supply, delivery and installation of 300 mm x 300 mm weather louver as per SANS requirement complete with installations costs	No.	12		R
1.9	FL - 01: Filters				
1.9.1	For the complete supply, delivery and installation of 300 mm x 300 mm air filters as per SANS requirement complete with installations costs	No.	12		R
1.10	DG - 01: Door Grilles				
	For the complete supply, delivery, and installation of 600 mm x 150 mm door grille as per SANS requirement, complete with installation costs	No.	21		R
1.11	RAG - 01: Return Air Grilles				
	For the complete supply, delivery, and installation of 500 mm x 500 mm Return Air Grille	No.	60		R
1.12	EAF-01 Fan				
	For the complete supply, delivery and installation of a silent supply air fan (150 l/s @ 50 Pa) complete installation with all associated electrical connections and timer connections, filters etc.	No.	2		R
1.13	Decommission and removal of AC units - indoor/outdoor and piping connection off site.	Sum	1		R
1.14	Decommission and removal of all ventilation fans ducting and air terminal units	Sum	1		R
1.15	Disposal of old units (AC units, refrigerant/condensate piping etc.)	Sum	1		R
1.16	Brick Works (closing of refrigerant/condensate piping holes; closing of underwindow grilles etc.)	Sum	1		R
1.17	Close Out	Sum	1		R
	Commissioning;				
	OEM Manuals & Training				
	COCs by a technician with a SAQCC certificate (SARACCA).				
Total for HVAC Installations - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park*Mechanical Services: HVAC Installations**Bill of Quantities***Bills of Quantities Summary**

Bill No.	Description	Total
	<u>Bills of Quantities Summary</u>	
Section 1	Preliminaries	R
Section 2 - Bill No. 1	HVAC Installations	R
	Subtotal (Excl VAT)	R
	Contingency - Allow/ provide the sum of Five Hundred Thousand Rands (R500 000.00) nett for contingencies to be used at the discrepancy of the principal agent and deducted in whole or in part if not required.	R 500 000.00
	Subtotal (Excl VAT, including Contingency)	R
	VAT at 15%	R
<i>TOTAL TENDER PRICE (Including VAT) CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE</i>		R