

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
	<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>Total Brought Forward from Page No.</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	<div> <div>Page No</div> <div>16</div> <div>17</div> <div>18</div> <div>19</div> <div>20</div> <div>21</div> <div></div> <div></div> <div></div> </div>	<div> <div>Amount</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></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></div> </div>	<div> <div>R</div> <div></div> </div>	<div> <div></div> <div></div> </div>

Item No		Amount	
1	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 3</u></p> <p><u>SECTION C - SPECIFIC PRELIMINARIES</u></p> <p>Clause C1 - Contractor To Be Responsible</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>The Contractor shall also comply with all legal and labour regulations.</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	
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	
20	<p>Clause C20 - Adjustment Of Attendance</p> <p>The amounts allowed by the Contractor against the respective attendance items will vary only in the following circumstances:</p> <ol style="list-style-type: none"> 1. Where the actual subcontract amount, less any adjustments in terms of the Contract Price Adjustment Provisions, varies in excess of 15% of the Provisional Sum allowed, then the attendance amount will be varied pro-rata to the subcontract final amount less any adjustments in terms of Contract Price Adjustment Provisions. 2. Where the scope of the subcontract works increases or decreases, then the attendance amount allowed will be increased or decreased pro-rata to the cost of the variation in the scope of the subcontract works only. 3. No adjustment in the attendance amount will be made where the specification increases/decreases the subcontract amount. <p>F:..... V:..... T:.....</p>		
21	<p>Clause C21 - Overloading By The Contractor Or Subcontractor</p> <p>The Contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the Works. The Contractor shall submit details of his proposed loading, storage, plant erection, etc., to the Principal Agents for their approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the Engineer's requirements in connection with the provision of temporary support work, etc.</p> <p>F:..... V:..... T:.....</p>		
22	<p>Clause C22 - Quality</p> <p>Quality inspections will be carried out timeously prior to handover to ensure quality at an earliest stage. The Contractor is to provide a designated snagging team to do remedial work.</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	
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	
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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>	

Item No		Amount	
40	<p>Clause C40 - Final Account</p> <p>The Contractor shall be obliged to timeously do everything necessary and to provide all information required by the Principal Agent to verify the final account submitted to by the Contractor for the final completed Works. The Contractor shall be obliged, within 15 days after receipt of the Quantity Surveyor's, to signify in writing his acceptance of same or to advance any claims he may have in respect thereof for the consideration of the Quantity Surveyor.</p> <p>The Contractor agrees that should he fail to dispute the final account recommended by the Principal Agent within 15 days after receipt of same, the Contractor will be deemed to have accepted the final account in its entirety. Dispute shall be deemed to mean the submission by the Contractor in writing to the Principal Agent of reasons valid, in the opinion of the Principal Agent, for not accepting the final account</p> <p>F:..... V:.....T:.....</p>		
41	<p>Clause C41 - 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>		
42	<p>Clause C42 - Contractor's liability for own design errors</p> <p>The Contractor shall provide the following to the Employer's Agent for retention by the Employer or his assignee in respect of all works designed by the Contractor:</p> <ol style="list-style-type: none"> 1. A Certificate of Stability of the Works signed by a registered Professional Engineer confirming that all such works have been designed in accordance with the appropriate codes of practice. 2. Proof of registration and of adequate and current professional indemnity insurance cover held by the designer(s). 3. Design calculations should the Employer's Agent request a copy thereof. 4. Engineering drawings and workshop details (both signed by the relevant professional engineer), in order to allow the Employer's Agent to compare the design with the specified requirements and to record any comments he may have with respect thereto. 5. "As-Built" drawings in DXF electronic format after completion of the Works. <p>The Contractor shall be responsible for the design of the Temporary Works</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	
	<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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	Carried to Final Summary				

MHSC Office Renovation - Tuscany Office Park



Electrical Installation

Bill of Quantities

Section 2 - Bill No.1: LV Reticulation

	Description	Unit	Qty	Rate	Total (excl VAT)
	<u>LV Reticulation</u>				
	<u>LV Cable</u>				
	<i>Supply and install PVC/SWA/PVC/Cu Cables in ground, on surface and on cable tray</i>				
1.1					
1.1.1	120mm ² 4 x Core	m	1		RATE ONLY
1.1.2	95mm ² 4 x Core	m	50		R
1.1.3	70mm ² 4 x Core	m	1		RATE ONLY
1.1.4	50mm ² 4 x Core	m	100		R
1.1.5	35mm ² 4 x Core	m	1		RATE ONLY
1.1.6	25mm ² 4 x Core	m	50		R
1.1.7	16mm ² 4 x Core	m	50		R
	<u>LV Cable Terminations</u>				
	<i>For PVC/SWA/PVC/Cu Cables including glands, shrouds, lugs, etc.</i>				
1.2					
1.2.1	120mm ² 4 x Core	m	1		RATE ONLY
1.2.2	95mm ² 4 x Core	m	4		R
1.2.3	70mm ² 4 x Core	m	2		R
1.2.4	50mm ² 4 x Core	m	4		R
1.2.5	35mm ² 4 x Core	m	1		RATE ONLY
1.2.6	25mm ² 4 x Core	m	4		R
1.2.7	16mm ² 4 x Core	m	8		R
	<u>BCEW for LV cabling</u>				
	<i>Supply and install BCEW for PVC/SWA/PVC/Cu Cables in ground, on surface and on cable tray</i>				
1.3					
1.3.1	70mm ²	m	0		R
1.3.2	50mm ²	m	50		R
1.3.3	35mm ²	m	100		RATE ONLY
1.3.4	25mm ²	m	50		R
1.3.5	16mm ²	m	100		R
1.3.6	10mm ²	m	50		R
	<u>BCEW Terminations</u>				
	<i>For PVC/SWA/PVC/Cu Cables including glands, shrouds, lugs, etc</i>				
1.4					
1.4.1	70mm ²	m	6		R
1.4.2	50mm ²	m	4		R
1.4.3	35mm ²	m	1		RATE ONLY
1.4.4	25mm ²	m	2		R
1.4.5	16mm ²	m	1		RATE ONLY
1.4.6	10mm ²	m	4		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R
1.5	<u>Cable Tray</u> <i>For PVC/SWA/PVC/Cu Cables including suspension brackets, drilling, fixing and levelling</i>				
1.5.1	450mm	m	4		RATE ONLY
1.5.2	200mm	m	200		R
	<u>Cable Tray Bends</u>				
1.5.3	450mm	m	1		RATE ONLY
1.5.4	200mm	m	6		R
	<u>Cable Tray Tees</u>				
1.5.5	450mm	m	1		RATE ONLY
1.5.6	200mm	m	6		R
	<u>Cable Tray Droppers or Risers (Vertical)</u>				
1.5.7	450mm	m	1		RATE ONLY
1.5.8	200mm	m	4		R
	<u>Cable Tray Suspension Brackets</u>				
1.5.9	Hanger Complete (to 300mm length)	No	1		RATE ONLY
1.5.10	Hanger Complete (to 300mm to 1 000mm length)	No	1		RATE ONLY
1.5.11	Hanger Complete (to 1 000mm to 1 500mm length)	No	40		R
1.6	<u>Trunking</u> <i>Galvanised trunking for PVC/SWA/PVC/Cu Cables including suspension</i>				
1.6.1	P9000	m	100		R
1.6.2	P8000	m	300		R
1.6.3	P2000	m	900		R
	<u>Bends</u>				
1.6.4	P9000	m	12		R
1.6.5	P8000	m	20		R
1.6.6	P2000	m	40		R
	<u>Tees</u>				
1.6.7	P9000	m	6		R
1.6.8	P8000	m	10		R
1.6.9	P2000	m	10		R
	<u>Droppers or Risers (Vertical)</u>				
1.6.10	P9000	m	6		R
1.6.11	P8000	m	6		R
1.6.12	P2000	m	6		R
	<u>Suspension Brackets</u>				
1.6.13	Hanger Complete (to 300mm length)	No	200		R
1.6.14	Hanger Complete (to 300mm to 1 000mm length)	No	50		RATE ONLY
1.6.15	Hanger Complete (to 1 000mm to 1 500mm length)	No	20		RATE ONLY
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
	<u>Earthing and Bonding</u> <i>General earthing and bonding of cable trays, trunking, powerskirting and Distribution Boards in accordance with SANS 10142-1</i>				
1.7	Bonding of Cable Tray	Sum	1		R
1.7.1	Bonding of Trunking	Sum	1		R
1.7.2	Bonding of Powerskirting	Sum	1		R
1.7.3	Bonding of Distribution Boards	Sum	1		R
1.7.4					
	<u>LV Distribution Boards</u> <i>Accept on site, store, install and connect-up LV distribution boards and equipment in accordance with SANS 10142-1</i>				
1.8	Supply, deliver and install the new ground floor Distribution Board as per schematic diagrams and specifications. MLV HA	Sum	1		R
1.8.1	Remove the existing DB	Sum	1		R
1.8.2					
1.8.3	Accept on site, store and install MLV Panel (HA) including earthing & bonding, chasing, concrete, fixing and positioning as per the specification and drawings	Sum	1		R
1.8.4	Test and Commission the above installation and issue electrical CoC once completed	Sum	1		R
1.8.5	Supply, deliver and install the new first floor Distribution Board as per schematic diagrams and specifications. MLV HB	Sum	1		R
1.8.6	Remove existing	Sum	1		R
1.8.7	Accept on site, store and install MLV Panel (HB) including earthing & bonding, chasing, concrete, fixing and positioning as per the specification and drawings	Sum	1		R
1.8.8	Test and Commission the above installation and issue electrical CoC once completed	Sum	1		R
	<u>Testing, Commissioning and Handover</u> <i>Testing, commissioning and handover of installation in accordance with SANS 10142-1 and electrical drawings and specifications</i>				
1.9					
1.9.1	Test and Commission the above installation and issue Electrical Certificate of Compliance on completion	Sum	1		R
1.10	<u>Decommissioning and Safe Disposal of Equipment</u> (Including Data Sanitization and Value Recovery)				
1.10.1	Systematic decommissioning of equipment, including: Safe disconnection and physical removal of hardware Secure erasure and destruction of all sensitive data in compliance with relevant data protection standards (e.g., GDPR, HIPAA, or client-specific policies) Identification and segregation of reusable, recyclable, or resalable components Environmentally compliant disposal of non-reusable items Documentation of all activities including chain-of-custody for data-bearing devices Crediting of any residual or resale value of decommissioned assets back to the client	Sum	1		R
	Total for LV Reticulation CARRIED FORWARD TO FINAL SUMMARY				R

MHSC Office Renovation - Tuscany Office Park

Electrical Installation

Bill of Quantities

Section 2 - Bill No.2: General Electrical Installation



	Description	Unit	Qty	Rate	Total (excl VAT)
	<u>General Electrical Installation</u>				
2.1	<u>Conduit</u>				
	<u>PVC Conduit</u>				
	<i>Installed on surface in Ceiling Voids</i>				
2.1.1	20mm	m	250		R
2.1.2	25mm	m	250		R
2.1.3	32mm	m	50		R
	<i>Chased into Brick Wall</i>				
2.1.4	20mm	m	100		R
2.1.5	25mm	m	100		R
2.1.6	32mm	m	50		R
	<i>Cast into concrete/ built into Brick Walls</i>				
2.1.7	20mm	m	50		R
2.1.8	25mm	m	50		R
2.1.9	32mm	m	50		R
	<i>PVC Conduit Terminations</i>				
2.1.10	20mm	No	60		R
2.1.11	25mm	No	60		R
2.1.12	32mm	No	10		R
	<u>Steel Galvanised Conduit</u>				
	<i>Installed on surface in Ceiling Voids</i>				
2.1.13	20mm	m	100		R
2.1.14	25mm	m	100		R
2.1.15	32mm	m	50		R
	<i>Chased into Brick Wall</i>				
2.1.16	20mm	m	10		R
2.1.17	25mm	m	10		R
2.1.18	32mm	m	10		R
	<i>Steel Galvanised Conduit Terminations</i>				
2.1.19	20mm	No	25		R
2.1.20	25mm	No	25		R
2.1.21	32mm	m	5		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R
2.2	<u>PVC insulated GP wiring conductors drawn into conduit, installed in trunking and powerskirting</u>				
2.2.1	2,5mm ²	m	1200		R
2.2.2	4mm ²	m	600		R
2.2.3	6mm ²	m	300		R
	<u>BCEW</u>				
2.2.4	2,5mm ²	m	400		R
2.2.5	4mm ²	m	200		R
2.2.6	6mm ²	m	100		R
2.3	<u>PVC insulated Twin & Earth wiring drawn into conduit, installed in trunking and powerskirting</u>				
2.3.1	2.5mm ²	m	50		R
2.3.2	4mm ²	m	50		R
	<i>T&E terminations</i>				
2.3.3	2.5mm ²	No	20		R
2.3.4	4mm ²	No	20		R
2.4	<u>Surfix Cabling</u>				
2.4.1	2.5mm ² 2core & earth surfix cabling	m	50		R
2.4.2	4mm ² 2core & earth surfix cabling	m	50		R
	<i>Surfix cabling terminations</i>				
2.4.3	2.5mm ² 2core & earth surfix cabling termination	No	10		R
2.4.4	4mm ² 2core & earth surfix cabling termination	No	10		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R
2.5	<u>Switched Socket Outlets</u>				
2.5.1	16A 240V Flush mounted SSO with PVC coverplate	No	5		R
2.5.2	16A 240V Flush mounted Dedicated (Red) SSO with PVC coverplate	No	5		R
2.5.3	16A 240V Flush mounted Duo SSO with PVC coverplate	No	5		R
2.5.4	Single 16A SSO in weatherproof "York Box"	No	5		R
2.6	<u>Isolators</u>				
2.6.1	20A Single Phase isolator	No	10		R
2.6.2	32A Three Phase isolator	No	10		R
2.6.3	32A Single Phase 5-pin "welding socket" including plugtop	No	2		R
2.7	<u>Termination only onto equipment including flexible conduit and all accessories</u>				
2.7.1	Kitchen equipment	No	4		R
2.7.2	Air-conditioning equipment	No	12		R
2.7.3	Smoke ventilation equipment	No	3		R
2.8	<u>Testing, Commissioning and Handover</u>				
2.8.1	Test and Commission the above installation and issue Electrical Certificate of Compliance on completion	Sum	1		R
2.90	<u>Decommissioning and Safe Disposal of Equipment</u> (Including Data Sanitization and Value Recovery)				
2.9.1	Systematic decommissioning of equipment, including: Safe disconnection and physical removal of hardware Secure erasure and destruction of all sensitive data in compliance with relevant data protection standards (e.g., GDPR, HIPAA, or client-specific policies) Identification and segregation of reusable, recyclable, or resalable components Environmentally compliant disposal of non-reusable items Documentation of all activities including chain-of-custody for data-bearing devices Crediting of any residual or resale value of decommissioned assets back to the client	Sum	1		R
Total for General Electrical Installation - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park

Electrical Installation

Bill of Quantities

Section 2 - Bill No.3: Communications, Fire & Security Installation



	Description	Unit	Qty	Rate	Total (excl VAT)
	Communications, Fire & Security Installation				
3.1	<u>Conduit</u>				
	<u>PVC Conduit</u>				
	<i>Installed on surface in Ceiling Voids</i>				
3.1.1	20mm	m	100		R
3.1.2	25mm	m	100		R
3.1.3	32mm	m	50		R
	<i>Chased into Brick Wall</i>				
3.1.4	20mm	m	50		R
3.1.5	25mm	m	50		R
3.1.6	32mm	m	50		R
	<i>Cast into concrete/ built into Brick Walls</i>				
3.1.7	20mm	m	50		R
3.1.8	25mm	m	50		R
3.1.9	32mm	m	50		R
	<i>PVC Conduit Terminations</i>				
3.1.10	20mm	No	30		R
3.1.11	25mm	No	30		R
3.1.12	32mm	No	20		R
	<u>Steel Galvanised Conduit</u>				
	<i>Installed on surface in Ceiling Voids</i>				
3.1.13	20mm	m	5		R
3.1.14	25mm	m	5		R
3.1.15	32mm	m	10		R
	<i>Chased into Brick Wall</i>				
3.1.16	20mm	m	5		R
3.1.17	25mm	m	5		R
3.1.18	32mm	m	5		R
	<i>Steel Galvanised Conduit Terminations</i>				
3.1.19	20mm	No	2		R
3.1.20	25mm	No	2		R
3.1.21	32mm	No	4		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
3.2	<u>P8000 Trunking</u>				
3.2.1	P8000 trunking	m	100		R
3.2.2	P8000 bends	No	2		R
3.2.3	P8000 ends	No	2		R
3.2.4	P8000 dropper to Comms/Fire/Security Panel	No	2		R
3.3	<u>300mm Cable Tray for Comms/Fire/Security</u>				
3.3.1	300mm Cable Tray	m	100		R
3.3.2	300mm Cable Tray bends	No	2		R
3.3.3	300mm Cable Tray vertical risers	No	2		R
3.3.4	300mm Cable Tray Tee-pieces	No	2		R
3.4	<u>Fire Detection Manual Call-Points and Fire Telephone System</u> <i>All in accordance with the detailed specification and as indicated on the construction drawings</i>				
3.4.1	Manual fire break-glass (FBG) unit in 75x75mm box chased into wall with 1x25mm conduit link to ceiling void Comms trunking as per specification and drawings.	No	30		R
3.4.2	Push Button Release unit in 75x75mm box chased into wall with 1x25mm conduit link to Comms trunking in ceiling void	No	15		R
3.4.3	Provide 1x25mm conduit links from flush mounted 50mm round box to ceiling void for fire telephone system at each fire escape refuge area for connection by others	No	12		R
3.5	<u>Fire Escape Doors - Door Hold Open Magnets</u> <i>All in accordance with the detailed specification and as indicated on the construction drawings</i>				
3.5.1	Supply and install 16A dedicated SSO in ceiling void above each fire escape door to power door hold-open magnet system	No	15		R
3.5.2	Supply and install 220/48V power supply for door hold-open magnet system in ceiling void connected to 16A dedicated SSO in ceiling void	No	15		R
3.5.3	Provide 1x25mm conduit links from flush mounted 50mm round box to ceiling void for door hold-open magnet system at each fire escape door for connection by others	No	30		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				
					R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R
3.6	<u>Comms/Fire/Security Distribution Boards</u> <i>Supply and install Comms/Fire/Security DB on wall complete with P8000 trunking to ceiling void as per drawings and specification</i>				
3.6.1	600mm x 600mm x 150mm deep	No	1		R
3.6.2	450mm x 450mm x 150mm deep	No	4		R
3.6.3	250mm x 250mm x 150mm deep	No	2		R
3.7	<u>Draw Wire</u> <i>All in accordance with the detailed specification and as indicated on the construction drawings</i>				
3.7.1	Supply & install galvanised draw wire in conduiting and sleeves	m	500		R
3.8	<u>Attendance on the Comms/Fire/Security Contractors</u> <i>All in accordance with the detailed specification and as indicated on the construction drawings</i>				
3.8.1	Allow attendance on the Data/Voice Communications Contractor	Item	1		R
3.8.2	Allow attendance on the Fire Detection Contractor	Item	1		R
3.8.3	Allow attendance on the Security Contractor	Item	1		R
3.8.4	Supply and install of smoke detector sensors on all floors	Item	110		R
3.9	<u>Testing, Commissioning and Handover</u>				
3.9.1	Test and Commission the above installation and issue Electrical Certificate of Compliance on completion	Sum	1		R
3.10	<u>Decommissioning and Safe Disposal of Equipment</u> (Including Data Sanitization and Value Recovery)				
3.10.1	Systematic decommissioning of equipment, including: Safe disconnection and physical removal of hardware Secure erasure and destruction of all sensitive data in compliance with relevant data protection standards (e.g., GDPR, HIPAA, or client-specific policies) Identification and segregation of reusable, recyclable, or resalable components Environmentally compliant disposal of non-reusable items Documentation of all activities including chain-of-custody for data-bearing devices Crediting of any residual or resale value of decommissioned assets back to the client	Sum	1		R
Total for Communications, Fire & Security Installation - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Electrical Installation
Bill of Quantities
Section 2 - Bill No. 4: Provisional Sums


	Description	Unit	Qty	Rate	Total (excl VAT)
	Provisional Sums				
4.1	Provisional Sums The following Provisional Sums are all NET amounts and are for work to be executed complete by Nominated/Selected Sub-Contractors or by the Contractor himself. Provisional Sums may be omitted or reduced at the Employers's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to Provisional Sums or P.C. amounts or any loss of profit related thereto The Employer shall also have the right to send onto the works and install any furniture, finishings or fittings, machinery, equipment, etc., and to supply and execute any other special works not contained in this contract during this contract, and the Contractor shall not be entitled to any percentage or discount thereon The Profit and Attendance on the following items will only be paid to the Contractor should a Nominated/Selected Sub-contractor conduct the work. If the allowance is directed for work to be done by the Contractor, the Attendance amounts will not be paid to the Contractor N.B. Any builder's work that the Contractor may be called upon to do so in connection with any such special works or services will be measured and valued at schedule rates as executed				
4.1.1	Provide the sum of R7 500.00 (Seven Thousand Five Hundred Rand) NETT for earthing installation (by specialist) to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 7 500.00
4.1.2	Allow for Profit on above	% Item			R
4.1.3	Allow for attendance on the above	% Item			R
4.1.4	Provide the sum of R25 000.00 (Twenty Five Thousand Rand) NETT for Earthing & Lightning Protection (by specialist) to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 25 000.00
4.1.5	Allow for Profit on above	% Item			R
4.1.6	Allow for attendance on the above	% Item			R
4.1.7	Provide the sum of R20 000.00 (Twenty Thousand Rand) NETT for Testing and re-certifying of 80 KVA Back-up Diesel Generator, complete with AMF changeover, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 20 000.00
4.1.8	Allow for Profit on above	% Item			R
4.1.9	Allow for attendance on the above	% Item			R
4.1.10	Accept on-site, store connect and commission a 160 kVA standby generator (Optional)	Item	1		Rate Only
4.1.11	Provide the sum of R5 000.00 (Five Thousand Rand) NETT for Air-Conditioning interface, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 5 000.00
4.1.12	Allow for Profit on above	% Item			R
4.1.13	Allow for attendance on the above	% Item			R
4.1.14	Provide the sum of R5 000.00 (Five Thousand Rand) NETT for the Fire Detection interface, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 5 000.00
4.1.15	Allow for Profit on above	% Item			R
4.1.16	Allow for attendance on the above	% Item			R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R
4.1.17	Provide the sum of R5 000.00 (Five Thousand Rand) NETT for the Security installation interface, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 5 000.00
4.1.18	Allow for Profit on above	% Item			R
4.1.19	Allow for attendance on the above	% Item			R
4.1.20	Provide the sum of R10 000.00 (Ten Thousand Rand) NETT for the Server Room installation, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 10 000.00
4.1.21	Allow for Profit on above	% Item			R
4.1.22	Allow for attendance on the above	% Item			R
4.1.23	Provide the sum of R15 000.00 (Fifteen Thousand Rand) NETT for the removal of redundant equipment from site, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 15 000.00
4.1.24	Allow for Profit on above	% Item			R
4.1.25	Allow for attendance on the above	% Item			R
4.1.26	Provide the sum of R7 500.00 (Seven Thousand Five Rand) NETT for disconnecting, making safe and stripping of the existing electrical installation on site, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 7 500.00
4.1.27	Allow for Profit on above	% Item			R
4.1.28	Allow for attendance on the above	% Item			R
4.1.29	Provide the sum of R50 000.00 (Fifty Thousand Rand) NETT for specialist decorative lighting, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 50 000.00
4.1.30	Allow for Profit on above	% Item			R
4.1.31	Allow for attendance on the above	% Item			R
4.1.32	Provide the sum of R10 000.00 (Ten Thousand Rand) NETT for AV wireways and controls, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 10 000.00
4.1.33	Allow for Profit on above	% Item			R
4.1.34	Allow for attendance on the above	% Item			R
4.1.35	Provide the sum of R15 000.00 (Fifteen Thousand Rand) NETT for additional lighting controls, to be expended as the Principal Agent may direct and to be measured and adjusted after completion or deducted in whole or in part if not required	PS	1		R 15 000.00
4.1.36	Allow for Profit on above	% Item			R
4.1.37	Allow for attendance on the above	% Item			R
Total for Provisional Sums - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Electrical Installation
Bill of Quantities
Section 2 - Bill No. 5: Basement and Solar PV


	Description	Unit	Qty	Rate	Total (excl VAT)
	Basements and Plantrooms				
5.1	Wireways & Reticulation				
5.1.1	Supply & install P9000 trunking in ceiling void/Slab Surface for small power and lighting installation as indicated on drawings and detailed in specification	m	130		R
5.1.2	Supply & install P2000 trunking in ceiling void for Communications, Fire detection and Security cabling installation as indicated on	m	115		R
5.1.3	Supply and install 300mm medium duty cable ladder tray for small power and lighting installation as indicated on drawings and detailed in specification	m	45		R
5.1.4	Supply and install 150mm medium duty cable ladder tray for small power and lighting installation as indicated on drawings and detailed in specification	m	100		R
5.1.5	Allowance for termination of P2000 trunking into Electrical Distribution board	m	2		R
5.1.6	Allowance for termination of P2000 trunking into Comms, fire and security distribution board	m	1		R
5.1.7	Earthing of P2000 trunking as indicated on drawings and detailed in specification	No	1		R
5.1.8	Earthing of 150mm and 300mm cable ladder as indicated on drawings and detailed in specification	No	2		R
5.1.9	Total remaining installation related to the above excluding items listed above	No	1		R
5.1.10	Allowance for Cross joint of cable ladder for small power and lighting installation	No	2		R
5.1.11	Allowance for T-joint of cable ladder for small power and lighting installation	No	3		R
5.1.12	Allowance for L-joint of cable ladder for small power and lighting installation	No	1		R
5.2	External Lighting				
5.2.1	Light Point for surface external light fitting	No	6		R
5.2.2	Accept on site, store and install external light fitting	No	20		R
5.2.3	Light Point for surface external emergency battery back-up light fitting	No	2		R
5.2.4	Accept on site, store and install surface external emergency battery back-up light fitting	No	2		R
5.2.5	Supply & install photocell as indicated on drawings and detailed in specification	Sum	1		R
5.3	Earthing and Bonding <i>General earthing and bonding of cable trays, trunking, powerskirting and Distribution Boards in accordance with SANS 10142-1</i>				
5.3.1	Bonding of Cable Tray	Sum	1		R
5.3.2	Bonding of Trunking	Sum	1		R
5.3.3	Bonding of Powerskirting	Sum	1		R
5.3.4	Bonding of Distribution Boards	Sum	1		R
5.3.5	Bonding of LV equipment (including Em Generators & UPS)	Sum	1		R
5.4	LV Distribution Boards <i>Accept on site, store, install and connect-up LV distribution boards and equipment in accordance with SANS 10142-1</i>				
5.4.1	Sum for supply and delivery to site of DB-HVAC (Basement) as per drawings and specifications	Sum	1		R
5.4.2	Add profit if required	Item	1		R
5.4.3	Accept on site, store and install the DB-HVAC ncluding earthing & bonding, chasing, concrete, fixing and positioning as per the specification and drawings	Item	1		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

5.5	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
	Luminaires <i>All in accordance with the detailed specification and as indicated on the construction drawings</i> <u>All quantities are strictly provisional and are subject to re-measurement. Rates exclude the supply of the luminaire (measured elsewhere)</u>				
5.5.1	Accept on site, store, install and connect up Type "L1 3" luminaire	No	40		R
5.5.2	Accept on site, store, install and connect up Type "L1 3E" luminaire	No	7		R
5.5.3	Accept on site, store, install and connect up Type "LM 1" luminaire	No	9		R
5.6	Supply, delivery and store for Luminaires <i>Accept on site, store, install and connect-up Luminaires in accordance with SANS 10142-1 and the detailed specification</i>				
5.6.1	Sum for supply and delivery to site of luminaires as per the luminaire ordering schedule	Sum	1		R
5.6.2	Add profit if required	Sum	1		R
5.7	Point Rates <i>All in accordance with the detailed specification and as indicated on the construction drawings</i> <u>All quantities are strictly provisional and are subject to re-measurement. Rates exclude the supply of the luminaire (measured elsewhere)</u>				
5.7.1	Accept on site, store, install and connect up Type "EL AC" Power Point	No	7		R
5.7.2	Accept on site, store, install and connect up Type "EL D1" Power Point	No	4		R
5.7.3	Accept on site, store, install and connect up Type "EL NT" Power Point	No	2		R
5.7.4	Accept on site, store, install and connect up Type "SB" Power Point for Exterior Security Beam	No	4		R
5.7.5	Accept on site, store, install and connect up Type "SC C" Power Point for Ceiling/Soffit Fixed Security Camera	No	8		R
5.7.6	Accept on site, store, install and connect up Type "SC W" Power Point for Exterior Fixed Security Cameras	No	2		R
5.7.7	Accept on site, store, install and connect up Type "SP" Power Point for Ceiling/Soffit Fixed Public Address Speaker	No	8		R
5.7.8	Light Switch	No	1		Rate Only
5.7.9	Outlet for Motion Sensor	No	1		Rate Only
5.7.10	Accept on site, store and install surface mounted motion sensor	No	1		Rate Only
5.7.11	Outlet for HVAC/mechanical ventilation	No	3		R
5.7.12	3-Phase outlet for equipment	No	1		Rate Only
5.7.13	1-Phase outlet for equipment	No	1		Rate Only
5.8	Solar PV & BESS <i>A scalable 30kW solar system with a Battery Energy Storage System (BESS) will require an allowance for design, supply, and delivery</i>				
5.8.1	30kW Hybrid Inverter HV	No	1		R
5.8.2	40.96kW Battery Bank (5.12kW per module)	No	1		R
5.8.3	585W N-Type Solar Panels	No	45		R
5.8.4	6mm Solar PV Cable	m	400		R
5.8.5	1000V 160A Battery Fuse	No	1		R
5.8.6	2 in 2 out combiner box	No	2		R
5.8.7	3 Phase 100Ah AC Change over box	No	1		R
5.8.8	25mm battery cable	No	5		R
5.9	Testing, Commissioning and Handover <i>Testing, commissioning and handover of installation in accordance with SANS 10142-1 and electrical drawings and specifications</i>				
5.9.1	Test and Commission the above installation and issue Electrical Certificate of Compliance on completion	Sum	1		R
Total for Basements and Plantrooms - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park

Electrical Installation

Bill of Quantities

Section 2 - Bill No. 6: Ground Floor Offices



	Description	Unit	Qty	Rate	Total (excl VAT)
	Ground floor Offices				
6.1	Wireways & Reticulation				
6.1.1	Supply & install P9000 trunking in ceiling void for small power and lighting installation as indicated on drawings and detailed in specification	m	150		R
6.1.2	Supply & install P2000 trunking in ceiling void for Communications, Fire detection and Security cabling installation as indicated on	m	120		R
6.1.3	Supply and install 400mm medium duty cable ladder tray for small power and lighting installation as indicated on drawings and detailed in specification	m	20		R
6.1.4	Supply and install 300mm medium duty cable ladder tray for small power and lighting installation as indicated on drawings and detailed in specification	m	50		R
6.1.5	Supply and install 200mm medium duty cable ladder tray for small power and lighting installation as indicated on drawings and detailed in specification	m	20		R
6.1.6	Allowance for termination of P9000 trunking into Electrical Distribution board	No	1		R
6.1.7	Allowance for termination of P8000 and P2000 trunking into Comms, fire and security distribution board	No	1		R
6.1.8	Allowance for termination of 400mm, 300mm and 200mm Cable ladders	No	3		R
6.1.9	Earthing of P9000 and P8000 trunking as indicated on drawings and detailed in specification	No	2		R
6.1.10	Earthing of 400m, 300mm and 200mm cable ladder as indicated on drawings and detailed in specification	No	3		R
6.1.11	Total remaining installation related to the above excluding items listed above	No	1		R
6.1.12	Allowance for Cross joint of cable ladder for small power and lighting installation	No	2		R
6.1.13	Allowance for T-joint of cable ladder for small power and lighting installation	No	2		R
6.1.14	Allowance for L-joint of cable ladder for small power and lighting installation	No	3		R
6.2	External Lighting				
6.2.1	Light Point for surface external light fitting	No	16		R
6.2.2	Accept on site, store and install external light fitting	No	16		R
6.2.3	Light Point for surface external emergency battery back-up light fitting	No	5		R
6.2.4	Accept on site, store and install surface external emergency battery back-up light fitting	No	5		R
6.2.5	Supply & install photocell as indicated on drawings and detailed in specification	Sum	1		R
6.3	Earthing and Bonding <i>General earthing and bonding of cable trays, trunking, power skirting and Distribution Boards in accordance with SANS 10142-1</i>				
6.3.1	Bonding of Cable Tray	Sum	1		R
6.3.2	Bonding of Trunking	Sum	1		R
6.3.3	Bonding of Power skirting	Sum	1		R
6.3.4	Bonding of Distribution Boards	Sum	1		R
TOTAL CARRIED FORWARD TO NEXT PAGE					R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
	<u>LV Distribution Boards</u>				
	<i>Accept on site, store, install and connect-up LV distribution boards and equipment in accordance with SANS 10142-1</i>				
6.4					
6.4.1	Sum for MDB & DB A/AE as per drawings and specifications	PC Sum	1		R
6.4.2	Add profit if required	Sum	1		R
6.4.3	PC Sum for MDB & DB SE as per drawings and specifications (Server DB)	Sum	1		R
6.4.4	Add profit if required	Sum	1		R
6.4.5	Accept on site, store and install the alterations and additions to the local DB including earthing & bonding, chasing, concrete, fixing and positioning as per the specification and drawings	Sum	1		R
6.4.6	Test and Commission the above installation and issue electrical CoC once completed	Sum	1		R
6.5	<u>Luminaires</u>				
	<i>All in accordance with the detailed specification and as indicated on the construction drawings</i>				
	<i>All quantities are strictly provisional and are subject to re-measurement. Rates exclude the supply of the luminaire (measured elsewhere)</i>				
6.5.1	Accept on site, store, install and connect up Type "LD1" luminaire	No	83		R
6.5.2	Accept on site, store, install and connect up Type "LD1E" luminaire	No	28		R
6.5.3	Accept on site, store, install and connect up Type "LD2" luminaire	No	63		R
6.5.4	Accept on site, store, install and connect up Type "LD2E" luminaire	No	5		R
6.5.5	Accept on site, store, install and connect up Type "LI1" luminaire	No	13		R
6.5.6	Accept on site, store, install and connect up Type "LI1E" luminaire	No	5		R
6.5.7	Accept on site, store, install and connect up Type "LI2" luminaire	No	61		R
6.5.8	Accept on site, store, install and connect up Type "LI2E" luminaire	No	14		R
6.5.9	Accept on site, store, install and connect up Type "LI3" luminaire	No	13		R
6.5.10	Accept on site, store, install and connect up Type "LI3E" luminaire	No	3		R
6.5.11	Accept on site, store, install and connect up Type "LI P1" luminaire	No	4		R
6.5.12	Accept on site, store, install and connect up Type "LI P2" luminaire	No	11		R
6.5.13	Accept on site, store, install and connect up Type "LI P3" luminaire	No	4		R
6.5.14	Accept on site, store, install and connect up Type "LI P4" luminaire	No	3		R
6.5.15	Accept on site, store, install and connect up Type "LI P4E" luminaire	No	4		R
6.5.16	Accept on site, store, install and connect up Type "LL 1" luminaire	No	16		R
6.5.17	Accept on site, store, install and connect up Type "LL 1E" luminaire	No	5		R
6.5.18	Accept on site, store, install and connect up Type "LL 2" luminaire	No	1		R
6.5.19	Accept on site, store, install and connect up Type "LM 1" luminaire	No	19		R
6.6	<u>Supply, delivery and store for Luminaires</u>				
	<i>Accept on site, store, install and connect-up Luminaires in accordance with SANS 10142-1 and the detailed specification</i>				
6.6.1	Sum for supply and delivery to site of luminaires as per the luminaire ordering schedule	Sum	1		R
6.6.2	Add profit if required	Sum	1		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				
					R

6.7	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
	Point Rates <i>All in accordance with the detailed specification and as indicated on the construction drawings</i> <u>All quantities are strictly provisional and are subject to re-measurement. Rates exclude the supply of the luminaire (measured elsewhere)</u>				
6.7.1	Accept on site, store, install and connect up Type "EL AC" Power Point	No	8		R
6.7.2	Accept on site, store, install and connect up Type "EL B1" Power Point	No	6		R
6.7.3	Accept on site, store, install and connect up Type "EL B2" Power Point	No	15		R
6.7.4	Accept on site, store, install and connect up Type "EL B4" Power Point	No	1		R
6.7.5	Accept on site, store, install and connect up Type "EL C1" Power Point	No	7		R
6.7.6	Accept on site, store, install and connect up Type "EL C2" Power Point	No	6		R
6.7.7	Accept on site, store, install and connect up Type "EL CC1" Power Point	No	10		R
6.7.8	Accept on site, store, install and connect up Type "EL CC4" Power Point	No	2		R
6.7.9	Accept on site, store, install and connect up Type "EL CD1" Power Point	No	10		R
6.7.10	Accept on site, store, install and connect up Type "EL CW" Power Point	No	9		R
6.7.11	Accept on site, store, install and connect up Type "EL D1" Power Point	No	25		R
6.7.12	Accept on site, store, install and connect up Type "EL D2" Power Point	No	3		R
6.7.13	Accept on site, store, install and connect up Type "EL D4" Power Point	No	3		R
6.7.14	Accept on site, store, install and connect up Type "EL DP" Power Point	No	22		R
6.7.15	Accept on site, store, install and connect up Type "EL FBC" Power Point	No	9		R
6.7.16	Accept on site, store, install and connect up Type "EL IS" Power Point	No	2		R
6.7.17	Accept on site, store, install and connect up Type "EL NT" Power Point	No	7		R
6.7.18	Accept on site, store, install and connect up Type "EL S2" Power Point	No	28		R
6.7.19	Accept on site, store, install and connect up Type "EL S4" Power Point	No	11		R
6.7.20	Accept on site, store, install and connect up Type "EL TV" Power Point	No	12		R
6.7.21	Accept on site, store, install and connect up Type "SB" Power Point	No	9		R
6.7.22	Accept on site, store, install and connect up Type "SC C" Power Point	No	10		R
6.7.23	Accept on site, store, install and connect up Type "SC W" Power Point	No	11		R
6.7.24	Accept on site, store, install and connect up Type "SP" Power Point	No	20		R
6.7.25	Accept on site, store, install and connect up Type "SW 2N" Power Point	No	1		R
6.7.26	Accept on site, store, install and connect up Type "SW D1" Power Point	No	6		R
6.7.27	Accept on site, store, install and connect up Type "SW M1" Power Point	No	1		R
6.7.28	Accept on site, store, install and connect up Type "SW N1" Power Point	No	5		R
6.7.29	Light Point for recessed light fitting	No	1		Rate Only
6.7.30	Light Switch/ 2 lever dimmer	No	1		Rate Only
6.7.31	Outlet for Motion/occupancy Sensor	No	1		Rate Only
6.7.32	Accept on site, store and install surface mounted motion/occupancy sensor	No	1		Rate Only
6.7.33	Outlet for HVAC/mechanical ventilation	No	6		R
6.7.34	Type "A" Workstation installed in a power skirting	No	1		Rate Only
6.7.35	Type "B" Workstation installed in wall/partition	No	1		Rate Only
6.7.36	Type "C" Workstation installed in pedestal	No	1		Rate Only
6.7.37	Outlet for mechanical ventilation	No	1		Rate Only
6.7.38	3-Phase outlet for equipment	No	1		Rate Only
6.7.39	1-Phase outlet for equipment	No	1		Rate Only
6.7.40	Geyser Point	No	1		Rate Only
6.7.41	Hand dryer	No	2		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				
					R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
6.8	<u>Supply and installation for UPS</u> <i>Testing, commissioning and handover of installation in accordance with SANS 10142-1 and electrical drawings and specifications</i>				
6.8.1	15kVA 3Phase Transformer less UPS: Reliable, high-performance power protection with DSP technology and true galvanic isolation. 30 min backup time	No	1		R
6.8.2	2kVA Single Phase UPS: Reliable power for networks, servers, telecom, and industrial applications with IoT monitoring.	No	1		R
6.9	<u>Testing, Commissioning and Handover</u> <i>Testing, commissioning and handover of installation in accordance with SANS 10142-1 and electrical drawings and specifications</i>				
6.9.1	Test and Commission the above installation and issue Electrical Certificate of Compliance on completion	Sum	1		R
Total for LV Ground floor Offices - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park

Electrical Installation

Bill of Quantities

Section 2 - Bill No. 7: First floor Offices



	Description	Unit	Qty	Rate	Total (excl VAT)
	First floor Offices				
7.1	Wireways & Reticulation				
7.1.1	Supply & install P9000 trunking in ceiling void for small power and lighting installation as indicated on drawings and detailed in specification	m	200		R
7.1.2	Supply & install P8000 trunking in ceiling void for Communications, Fire detection and Security cabling installation as indicated on	m	60		R
	Supply & install P2000 trunking in ceiling void for Communications, Fire detection and Security cabling installation as indicated on	m	20		R
	Supply and install 300mm medium duty cable ladder tray for small power and lighting installation as indicated on drawings and detailed in specification	m	60		R
	Supply and install 200mm medium duty cable ladder tray for small power and lighting installation as indicated on drawings and detailed in specification	m	60		R
7.1.3	Allowance for termination of P9000 trunking into Electrical Distribution board	No	1		R
7.1.4	Allowance for termination of P8000 trunking into Comms, fire and security distribution board	No	1		R
7.1.5	Earthing of P9000 and P8000 trunking as indicated on drawings and detailed in specification	No	1		R
7.1.6	Total remaining installation related to the above excluding items listed above	No	1		R
7.2	External Lighting				
7.2.1	Light Point for surface external light fitting	No	2		R
7.2.2	Accept on site, store and install external light fitting	No	2		R
7.2.3	Light Point for surface external emergency battery back-up light fitting	No	2		R
7.2.4	Accept on site, store and install surface external emergency battery back-up light fitting	No	2		R
7.2.5	Supply & install photocell as indicated on drawings and detailed in specification	Sum	1		R
7.3	Earthing and Bonding				
	<i>General earthing and bonding of cable trays, trunking, power skirting and Distribution</i>				
7.3.1	Bonding of Cable Tray	Sum	1		R
7.3.2	Bonding of Trunking	Sum	1		R
7.3.3	Bonding of Power skirting	Sum	1		R
7.3.4	Bonding of Distribution Boards	Sum	1		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
	<u>LV Distribution Boards</u>				
	<i>Accept on site, store, install and connect-up LV distribution boards and equipment in accordance with SANS 10142-1</i>				
7.4					
7.4.1	Sum for First floor db-B/BE as per drawings and specifications	Sum	1		R
7.4.2	Add profit if required	Sum	1		R
7.4.3	Accept on site, store and install the alterations and additions to the local DB including earthing & bonding, chasing, concrete, fixing and positioning as per the specification and drawings	Sum	2		R
7.4.4	Test and Commission the above installation and issue electrical CoC once completed	Sum	2		R
7.5	<u>Luminaires</u>				
	<i>All in accordance with the detailed specification and as indicated on the construction drawings</i>				
	<i>All quantities are strictly provisional and are subject to re-measurement. Rates exclude the supply of the luminaire (measured elsewhere)</i>				
7.5.1	Accept on site, store, install and connect up Type "LD1" luminaire	No	161		R
7.5.2	Accept on site, store, install and connect up Type "LD1E" luminaire	No	38		R
7.5.3	Accept on site, store, install and connect up Type "LD2" luminaire	No	31		R
7.5.4	Accept on site, store, install and connect up Type "LD2E" luminaire	No	3		R
7.5.5	Accept on site, store, install and connect up Type "LI1" luminaire	No	7		R
7.5.6	Accept on site, store, install and connect up Type "LI1E" luminaire	No	3		R
7.5.7	Accept on site, store, install and connect up Type "LI2" luminaire	No	94		R
7.5.8	Accept on site, store, install and connect up Type "LI2E" luminaire	No	30		R
7.5.9	Accept on site, store, install and connect up Type "LI3" luminaire	No	7		R
7.5.10	Accept on site, store, install and connect up Type "LI P1" luminaire	No	0		R
7.5.11	Accept on site, store, install and connect up Type "LI P2" luminaire	No	10		R
7.5.12	Accept on site, store, install and connect up Type "LI P3" luminaire	No	4		R
7.5.13	Accept on site, store, install and connect up Type "LI P5" luminaire	No	3		R
7.5.14	Accept on site, store, install and connect up Type "LL 1" luminaire	No	7		R
7.5.15	Accept on site, store, install and connect up Type "LL 2" luminaire	No	0		R
7.5.16	Accept on site, store, install and connect up Type "LM 1" luminaire	No	58		R
7.6	<u>Supply, delivery and store for Luminaires</u>				
	<i>Accept on site, store, install and connect-up Luminaires in accordance with SANS 10142-1 and the detailed specification</i>				
7.6.1	Sum for supply and delivery to site of luminaires as per the luminaire ordering schedule	Sum	1		R
7.6.2	Add profit if required	Sum	1		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

7.7	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				R
	Point Rates <i>All in accordance with the detailed specification and as indicated on the construction drawings</i> <u>All quantities are strictly provisional and are subject to re-measurement. Rates exclude the supply of the luminaire (measured elsewhere)</u>				
7.7.1	Accept on site, store, install and connect up Type "EL AC" Power Point	No	9		R
7.7.2	Accept on site, store, install and connect up Type "EL B1" Power Point	No	11		R
7.7.3	Accept on site, store, install and connect up Type "EL B2" Power Point	No	12		R
7.7.4	Accept on site, store, install and connect up Type "EL B3" Power Point	No	1		R
7.7.5	Accept on site, store, install and connect up Type "EL B4" Power Point	No	6		R
7.7.6	Accept on site, store, install and connect up Type "EL C1" Power Point	No	3		R
7.7.7	Accept on site, store, install and connect up Type "EL C2" Power Point	No	4		R
7.7.8	Accept on site, store, install and connect up Type "EL CC1" Power Point	No	4		R
7.7.9	Accept on site, store, install and connect up Type "EL CC2" Power Point	No	1		R
7.7.10	Accept on site, store, install and connect up Type "EL CC3" Power Point	No	4		R
7.7.11	Accept on site, store, install and connect up Type "EL CC4" Power Point	No	2		R
7.7.12	Accept on site, store, install and connect up Type "EL CD1" Power Point	No	20		R
7.7.13	Accept on site, store, install and connect up Type "EL CW" Power Point	No	7		R
7.7.14	Accept on site, store, install and connect up Type "EL D1" Power Point	No	57		R
7.7.15	Accept on site, store, install and connect up Type "EL D2" Power Point	No	9		R
7.7.16	Accept on site, store, install and connect up Type "EL D4" Power Point	No	44		R
7.7.17	Accept on site, store, install and connect up Type "EL DP" Power Point	No	61		R
7.7.18	Accept on site, store, install and connect up Type "EL IS" Power Point	No	2		R
7.7.19	Accept on site, store, install and connect up Type "EL NT" Power Point	No	7		R
7.7.20	Accept on site, store, install and connect up Type "EL PC" Power Point	No	1		R
7.7.21	Accept on site, store, install and connect up Type "EL PY" Power Point	No	1		R
7.7.22	Accept on site, store, install and connect up Type "EL S4" Power Point	No	4		R
7.7.23	Accept on site, store, install and connect up Type "EL TV" Power Point	No	12		R
7.7.24	Accept on site, store, install and connect up Type "EL W1" Power Point	No	1		R
7.7.25	Accept on site, store, install and connect up Type "SC C" Power Point	No	5		R
7.7.26	Accept on site, store, install and connect up Type "SP" Power Point	No	30		R
7.7.27	Accept on site, store, install and connect up Type "SW D1" Power Point	No	3		R
7.7.28	Accept on site, store, install and connect up Type "SW N1" Power Point	No	4		R
7.7.29	Light Point for recessed light fitting	No	1		Rate Only
7.7.30	Light Switch/ 2 lever dimmer	No	1		Rate Only
7.7.31	Outlet for Motion/occupancy Sensor	No	1		Rate Only
7.7.32	Accept on site, store and install surface mounted motion/occupancy sensor	No	1		Rate Only
7.7.33	Outlet for HVAC/mechanical ventilation	No	6		R
7.7.34	Type "A" Workstation installed in a power skirting	No	1		Rate Only
7.7.35	Type "B" Workstation installed in wall/partition	No	1		Rate Only
7.7.36	Type "C" Workstation installed in pedestal	No	1		Rate Only
7.7.37	Outlet for mechanical ventilation	No	1		Rate Only
7.7.38	3-Phase outlet for equipment	No	1		Rate Only
7.7.39	1-Phase outlet for equipment	No	1		Rate Only
7.7.40	Geyser Point	No	1		R
7.7.41	Hand dryer	No	2		R
	TOTAL CARRIED FORWARD TO NEXT PAGE				R

Section 2

Bill No.7: First Floor Offices

Electrical Installation

	TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE				
					R
7.8	<u>Supply and installation for UPS</u> <i>Testing, commissioning and handover of installation in accordance with SANS 10142-1 and electrical drawings and specifications</i>				
7.8.1	2kVA Single Phase UPS: Reliable power for networks, servers, telecom, and industrial applications with IoT monitoring. 30 min Backup	No	2		R
7.9	<u>Testing, Commissioning and Handover</u> <i>Testing, commissioning and handover of installation in accordance with SANS 10142-1 and electrical drawings and specifications</i>				
7.9.1	Test and Commission the above installation and issue Electrical Certificate of Compliance on completion	Sum	1		R
Total for First floor Offices carried forward to BoQ Summary Page					R

MHSC Office Renovation - Tuscany Office Park

Electrical Installation

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	LV Reticulation	R
Section 2 - Bill No. 2	General Electrical Installation	R
Section 2 - Bill No. 3	Communications, Fire & Security Installation	R
Section 2 - Bill No. 4	Provisional Sums	R
Section 2 - Bill No. 5	Basement and Solar PV	R
Section 2 - Bill No. 6	Ground floor Offices	R
Section 2 - Bill No. 7	First floor Offices	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
TOTAL TENDER PRICE (Including VAT) CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE		R