

Item No		Amount	
	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 <u>STRUCTURE OF THIS PRELIMINARIES BILL</u> Section A : A recital of the headings of the individual clauses in the aforementioned JBCC Principal Building Agreement Section B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries (refer to JBCC & Tender Document) Section C : A recital of the headings of the individual special clauses to meet the particular circumstances of the project (refer to Tender Document) 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) <u>PRICING OF PRELIMINARIES</u> 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)		
1	<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u> <u>Interpretation (A1-A7)</u> Clause 1.0 - Definitions and interpretation Pricing of bills of quantities 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 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	Carried to Collection R	
	Section No. 1 Bill No. 1 Preliminaries (Section A)		

Item No		Amount	
	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 Abbreviated descriptions 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 Legal status of contractor If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then: 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 F:..... V:..... T:.....		
	Carried to Collection	R	
	Section No. 1 Bill No. 1 Preliminaries (Section A)		

Item No		Amount	
7	Clause 7.0 - Design responsibility F:..... V:..... T:..... <u>Insurances and securities (A8-A11)</u>		
8	Clause 8.0 - Works risk F:..... V:..... T:.....		
9	Clause 9.0 - Indemnities F:..... V:..... T:.....		
10	Clause 10.0 - Insurances F:..... V:..... T:.....		
11	Clause 11.0 - Securities F:..... V:..... T:..... <u>Execution (A12 - A17)</u>		
12	Clause 12.0 - Obligations of the parties 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 Office accommodation 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] Notice board 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] Statutory and other notices		
	Carried to Collection	R	
	Section No. 1 Bill No. 1 Preliminaries (Section A)		

Item No		Amount	
	<u>SECTION NO. 1</u> <u>BILL NO. 2</u> <u>SECTION B - JBCC PRELIMINARIES</u> <u>Definitions and interpretation (B1)</u> 1 Clause 1.1 - Definitions F:..... V:..... T:..... 2 Clause 1.2 - Interpretation F:..... V:..... T:..... <u>Documents (B2)</u> 3 Clause 2.1 - Checking of documents F:..... V:..... T:..... 4 Clause 2.2 - Provisional bills of quantities These bills of quantities are provisionally measured. F:..... V:..... T:..... 5 Clause 2.3 - Availability of construction information 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:..... 7 Clause 2.4 - Ordering of materials and goods F:..... V:..... T:..... <u>Previous work and adjoining properties (B3)</u> 8 Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:..... Carried to Collection R Section No. 1 Bill No. 2 JBCC Preliminaries (Section B)		

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:.....		
	Carried to Collection Section No. 1 Bill No. 2 JBCC Preliminaries (Section B)	R	

Item No		Amount	
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>		
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:.....		
	<u>Deposits and fees (B7)</u>		
24	Clause 7.1 - Deposits and fees F:..... V:..... T:.....		
	<u>Temporary services (B8)</u>		
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:.....		
	<u>Prime cost amounts (B9)</u>		
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)	

Section No. 1 Bill No. 2 JBCC Preliminaries (Section B) <u>COLLECTION</u>			
Section No. 1 Bill No. 2 JBCC Preliminaries (Section B)	Total Brought Forward from Page No.	Page No 16 17 18 19 20 21	Amount
Section No. 1 Bill No. 2 JBCC Preliminaries (Section B)	Carried Forward to Summary of Section No. 1	R	

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	Clause C2 - Warranties Warranties shall be sought by the Principal Agent from all nominated or selected firms carrying out work or supplying goods. All warranties and guarantees issued by Subcontractors shall be underwritten by the Contractor. 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. 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 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 F:..... V:..... T:.....		
3	Clause C3 - Indemnities Indemnities shall be sought by the Principal Agent from all Contractors undertaking any design responsibility. F:..... V:..... T:.....		
	Carried to Collection Section No. 1 Bill No. 3 Special Preliminaries (Section C)	R	

Item No		Amount	
7	Clause C7 - Interpretation Of Drawings, Specifications And Bills Of Quantities 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. 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. F:..... V:..... T:.....		
8	Clause C8 - Ownership and Care of Drawings and Documents 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. F:..... V:..... T:.....		
9	Clause C9 - Checking of Drawings and Specifications 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. 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. F:..... V:..... T:.....		
10	Clause C10 - Scale of Dimensions 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. F:..... V:..... T:.....		
	Carried to Collection	R	
	Section No. 1 Bill No. 3 Special Preliminaries (Section C)		

Item No		Amount	
11	Clause C11 - Contract Instructions 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. Site instructions to the Contractor and various Sub-contractors may be issued only by the Principal Agent and shall be issued via the Contractor. F:..... V:..... T:.....		
12	Clause C12 - Encroachment by Contractor 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. F:..... V:..... T:.....		
13	Clause C13 - Security at Completion 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. F:..... V:..... T:.....		
14	Clause C14 - Condemned Work 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. The Contractor shall also bear the expense (including Professional Fees) of making good all other work destroyed or damaged by such removal or replacement. F:..... V:..... T:.....		
15	Clause C15 - Labour Record 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. F:..... V:..... T:.....		
	Carried to Collection	R	
	Section No. 1 Bill No. 3 Special Preliminaries (Section C)		

Item No		Amount	
16	Clause C16 - Plant Record 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. F:..... V:..... T:.....		
17	Clause C17 - Costs of Claims 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. F:..... V:..... T:.....		
18	Clause C18 - Declaration of Insurance A declaration of insurance shall be sought by the Principal Agent from the party responsible for affecting the applicable insurance cover. F:..... V:..... T:.....		
19	Clause C19 - Insurances 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. Where the Contractor is responsible for the appointment of subcontractors then the Contractor shall: 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. F:..... V:..... T:.....		
		Carried to Collection	R
Section No. 1			
Bill No. 3			
Special Preliminaries (Section C)			

Item No		Amount	
20	Clause C20 - Adjustment Of Attendance The amounts allowed by the Contractor against the respective attendance items will vary only in the following circumstances: 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. F:..... V:..... T:.....		
21	Clause C21 - Overloading By The Contractor Or Subcontractor 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. F:..... V:..... T:.....		
22	Clause C22 - Quality 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. F:..... V:..... T:.....		
	Carried to Collection Section No. 1 Bill No. 3 Special Preliminaries (Section C)	R	

Item No		Amount	
23	Clause C23 - Cleaning No claims for clearing or carting away any earth, rubbish or superfluous materials, including that of any Subcontractor, shall be accepted. 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. 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. F:..... V:..... T:.....		
24	Clause C24 - Subcontracting The Contractor takes full responsibility of managing all appointed sub-contractors. The Contractor must also include any overhead costs for these appointed sub-contractors. F:..... V:..... T:.....		
25	Clause C25 - Trade Names 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. If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for F:..... V:..... T:.....		
26	Clause C26 - Temporary Protection Temporary protection, as per Engineers requirements of existing, roads, fencing, entrances, water, sewer, stormwater, telephone, electrical, etc. services to be affected by the works F:..... V:..... T:.....		
	Carried to Collection	R	
	Section No. 1 Bill No. 3 Special Preliminaries (Section C)		

Item No		Amount	
32	Clause C32 - Health and safety 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] The contractor shall: 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 F:..... V:..... T:.....		
33	Clause C33 - Accommodation of traffic for construction works Contractor to provide a traffic management plan Including barriers, temporary signage, flagman, traffic management plan, temporary road markings, etc. at the contractors costs F:..... V:..... T:.....		
	Carried to Collection Section No. 1 Bill No. 3 Special Preliminaries (Section C)	R	

Item No		Amount	
34	Clause C34 - Dayworks 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. 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. F:..... V:..... T:.....		
35	Clause C35 - Waste Management Plan The Contractor must compile and implement a comprehensive project-specific Waste Management Plan (WMP). 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 F:..... V:..... T:.....		
	Carried to Collection Section No. 1 Bill No. 3 Special Preliminaries (Section C)	R	

Item No		Amount	
36	Clause C36 - Hours of Work 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 F:..... V:..... T:.....		
37	Clause C37 - After Hours Work 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 F:..... V:..... T:.....		
38	Clause C38 - Site Security 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 F:..... V:..... T:.....		
39	Clause C39 - Cooperation of the contractor for cost management 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 F:..... V:..... T:.....		
		Carried to Collection	R
Section No. 1			
Bill No. 3			
Special Preliminaries (Section C)			

Item No		Amount	
	<u>SECTION NO. 1</u> <u>BILL NO. 4</u> <u>OHS REQUIREMENTS (SECTION D)</u> NOTE 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 <u>Health and Safety Requirements</u> <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> 1 Requirements regarding the Health and Safety Plan/file as Clause 7.1 2 Requirements regarding internal OHS audits and recovery plans as per Clause 7.1.1.3 3 Full time/part time Construction Health & Safety Officer as per Clause 4 Requirements regarding internal OHS audits and recovery plans as per Clause 7.1.1.3 5 Requirements regarding Health and Safety Training as per Clause 7.1.2 6 Requirements regarding health and safety incident/accident investigation and reporting as per Clause 7 Requirements regarding access card as per Clause <u>Requirements regarding Health and Safety Site requirements</u> 8 a. Administration Clause 7.1.3.1 9 b. Health and safety programme Clause 7.1.3.2 10 c. Personal protective equipment for employees and visitors Clause 7.1.3.3 11 d. Provision of employees site facilities Clause 7.1.3.4 12 e. OHS Signage Clause 7.1.3.5 13 f. OHS Notice Board Clause 7.1.3.6 Carried to Collection R Section No. 1 Bill No. 4 OHS Requirements (Section D)		

MHSC Office Renovation - Tuscany Office Park*Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection***Bill of Quantities****Section 2 - Bill No.1: Alteration and Removal Works**

Description		Unit	QTY	Rate	Total (excl VAT)
1 Alteration & Removal Works					
1.1 Furniture / Shopfitting					
1.1.1	Existing kitchen joinery to be removed ground and upper floor	No.	3		R
1.1.2	Existing joinery counter to be demolished and remove from site 2nd floor	No.	1		R
1.1.3	Existing lath wall feature to be removed	No.	1		R
1.1.4	Existing storage shelving to be removed in basement	No.	1		R
1.2 Gate and Fencing - Basement (120.B - Basement Demolition Plan)					
1.2.1	WF-F1 - Existing fencing to be removed in the basement (120.B - Basement Demolition Plan)	m	10		R
1.2.2	EX D4 - Existing diamond mesh gate in the basement to be demolished and removed from site	No.	2		R
Total for Alteration and Removal Works - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park*Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection***Bill of Quantities****Section 2 - Bill No.2: Construction Wet Works**

Description		Unit	QTY	Rate	Total (excl VAT)
2 Construction Wet Works - Basement, Ground floor and Upper levels					
2.1	Removal of existing (Refer to Demolition Plans - 120.8, 120.00, 120.01)				
2.1.1	Existing brick wall to be demolished, contractor to make good floors, walls and ceiling	m²	19		R
2.2	Construction (Refer to Construction Plans - 130.8, 130.00, 130.01) Supply, delivery and execution:				
2.2.1	BW 110 - 110mm lightweight single skin brick wall (non-load bearing). to consist of one skin of litecore 100mm technopol building blocks. all joints to be flush jointed. wall surface to be plastered with one coat smooth troweled plaster. contractor to ensure sufficient support, footings, and foundations are to be made prior to construction.	m²	27		R
2.2.2	BW 170 - 170mm lightweight single skin brick wall . To consist of one skin of litecore 150mm technopol building blocks. All joints to be flush jointed. wall surface to be plastered with one coat smooth troweled plaster. Contractor to ensure sufficient support, footings, and foundation are to be made prior to construction.	m²	61		R
2.2.3	Plaster brick walls. One coat smooth troweled gypsum plaster. Thickness 10mm	m²	176		R
Total for Construction Wet Works - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection

Bill of Quantities
Section 2 - Bill No.3: Construction - Dry Walls

Description		Unit	QTY	Rate	Total (excl VAT)
3 Construction Dry Walls - Basement, Ground floor and Upper levels					
3.1	Removal of existing (Refer to Demolition Plans - 120.B, 120.00, 120.01)				
3.1.1	Existing drywall to be demolished, contractor to make good floors, walls and ceiling where drywalling has been removed	m ²	748		R
3.2	Construction (Refer to Construction Plans - 130.B, 130.00, 130.01)				
	Supply, delivery and execution:				
3.2.1	Existing 110mm single skin brick wall to be demolished, contractor to make good floors, walls and ceiling where walls have been removed	m ²	18		R
	Note: All sound dampened wall to be slab to slab, or to have sound dampened baffles above ceiling and below access floor Note: Contractor to ensure account for corner beads, flush ups, T-intersection, fair ends & termination channels where required				
3.2.2	DA 96 - 96mm sound dampened drywall partition height as per plans. To be made of 65mm steel studs at 400-600 centre on equivalent steel track at floor and ceiling. To have 2 layers of 12mm gypsum board to each side on all straight runs (6mm on all curves). To have 50mm cavity batt insulation. All joints and edges to be taped and skimmed	m	172		R
3.2.3	DB 96 - 96mm sound dampened drywall partition height as per plans. To be made of 65mm steel studs at 400-600 centre on equivalent steel track at floor and ceiling. To have 1 layers of 12mm Gyproc board to each side on all straight runs (6mm on all curves). To have 50mm cavity batt insulation All joints and edges to be taped and skimmed	m	98		R
3.2.4	DF 113 - 133mm fire rated drywall partition height as per plans. To be made up of 65mm steel studs at 400-600 centre on equivalent steel track at floor and ceiling. To have 2 layers 12mm Gyproc fire stop board to each side on all straight runs (6mm on all curves). To have 50mm mineral wool insulation. All joints and edges to be taped and skimmed	m	10		R
3.2.5	DW 76 - 76mm drywall partition height as per plans. To be made up of 65mm steel studs at 400-600 centre on equivalent steel track at floor and ceiling. To have 1 layer of 12mm gypsum plasterboard to one side on all straight runs (6mm on all curves). All joints and edges to be taped and skimmed	m	7		R
3.2.6	DW 90 - 90mm Drywall partition height as per plans. To be made up of 65mm steel studs at 400-600 centres on equivalent steel track at floor and ceiling. To have 1 layer of 12mm gypsum plasterboard to each side on all straight runs (6mm on all curves). All joints to be taped, skimmed and sanded.	m	278		R
3.2.7	RE - 18mm MDF board or similar reinforcing to drywall for screen or joinery to be wall mounted	m ²	62		R
Total for Construction Dry Walls - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection

Bill of Quantities
Section 2 - Bill No.4: Construction - Ceilings

Description		Unit	QTY	Rate	Total (excl VAT)
4 Construction Ceilings - Basement, Ground floor and Upper levels					
4.1	Removal of existing (Refer to Ceiling Demolition Plans - 220.00, 220.01)				
4.1.1	Existing ceiling tiles to be demolished. Surrounding area to remain to have tees stabilised. All ceiling tiles to be removed and set aside and good tiles to be reused	m²	718		R
4.2	Existing Ceiling (Refer to Ceiling Layout - 200.01, 200.02, 200.B)				
4.2.1	EXT C1 - Existing 500 x 500mm ceiling to be retained. Contractor to check existing tees are still structurally suitable. Damaged ceiling tiles to be swapped out with tiles that were set aside. Existing ceiling tiles to be sprayed colour trade white	m²	1324		R
4.2.2	EXT C2 - Existing 500 x 500mm ceiling to be retained. Contractor to check existing tees are still structurally suitable. Damaged ceiling tiles to be swapped out with tiles that were set aside. Existing ceiling tiles to be sprayed dark grey to match dulux code: Charcoal slate 30BB 21/014	m²	21		R
4.2.3	EXT FP - Existing flush plaster ceiling to be retained. To be repainted colour trade white. All joints to new flush plaster ceiling to be taped and skimmed, painted trade white	m²	220		R
4.3	New ceiling (Refer to Ceiling Layout - 200.01, 200.02, 200.B) Supply, delivery and installation:				
4.3.1	CF 1 - 9.5mm gypsum ceiling boards to be taped , skimmed , sanded and painted . To be painted white one coat of professional gypsum and plaster primer (PP700) and two full coats of professional contractor matt (PEM600/TCP)	m²	110		R
4.3.2	CF 2 - 9.5mm gypsum dropped bulkhead at height as per plan with 150mm upstand to be taped, skimmed , sanded and painted . To be painted white one coat of professional gypsum and plaster primer (PP700) and two full coats of professional contractor matt (PEM600/TCP)	m²	197		R
4.3.3	CF 3 - 9.5mm gypsum dropped bulkhead at height as per plan with 250mm upstand to be taped, skimmed , sanded and painted . To be painted white one coat of professional gypsum and plaster primer (PP700) and two full coats of professional contractor matt (PEM600/TCP)	m²	65		R
4.3.4	CT 1 - White mineral wool ceiling tiles 600 x 600 x 15mm. With square edge and white paint finish land on S3 white exposed demountable T24 suspension system, tees suspended by means of galvanised hangers at centre not exceeding 1200mm. All installed to manufacture specification	m²	268		R
4.3.5	CT 2 - Black mineral wool ceiling tiles 600 x 600 x 15mm. With square edge and white paint finish land on S3 white exposed demountable T24 suspension system, tees suspended by means of galvanised hangers at centre not exceeding 1200mm. All installed to manufacture specification	m²	27		R
4.3.6	TR-C - Contractor to install L-trim aluminium edge trim to all new ceilings. Colour: White. All trims to be plugged and screwed at centres not exceeding 200mm. 5% wastage allowed for in quantity	m²	734		R
Total for Construction - Ceilings - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection
Bill of Quantities
Section 2 - Bill No.5: Construction - Doors and Glazing


Description		Unit	QTY	Rate	Total (excl VAT)
5 Construction Doors and Glazing - Basement, Ground floor and Upper levels					
5.1	Removal of existing (Refer to Demolition Plans - 120.B, 120.00, 120.01)				
5.1.1	EX D1 - Existing single doors and frames to be removed	No.	38		R
5.1.2	EX D2 - Existing double doors and frames to be removed	No.	6		R
5.1.3	EX D3 - Existing double aluminium doors and frames to be removed	No.	1		R
5.1.4	Take down Glazing view panels & remove from site	No.	3		R
5.1.5	Take down window panels & remove from site	No.	6		R
Note: Supply and install ironmongery as per schedule (included in pricing for door types) Contractor to ensure account for transoms, Ironmongery, handles, door stops					
5.2	Doors: (Refer to Door Layouts and schedule- 600.B, 600.00, 600.01, 600.S) Supply, delivery and installation as per the layouts and door schedule:				
5.2.1	DA 1 - 813 x 2400mm aluminium frame single swing glazed door with 6mm laminated glass To have new aluminium frame. Colour: black	No.	8		R
5.2.2	DA 2 - 1500 x 2400mm aluminium frame double swing glazed door with 6mm laminated clear glass To have new aluminium frame. Colour: black	No.	5		R
5.2.3	DD 1 - 900 x 2400mm hollow core double door To have new aluminium frame. Colour: black	No.	4		R
5.2.4	DF 1 - 813 x 2400 mm single swing fire door to manufacturer specification To have new frame to manufacturer specification	No.	1		R
5.2.5	DT 1 - 900 x 2400mm solid core single swing door To have new aluminium frame. Colour: black	No.	7		R
5.2.6	DT 2 - 813 x 2400mm Masonite single swing door To have new aluminium frame. Colour: black	No.	43		R
5.2.7	DT 3 - 813 x 2400mm semi-solid core single swing door To have new aluminium frame. Colour: black	No.	19		R
5.2.8	DT 4 - 1500 x 2400mm solid timber double door To have new aluminium frame. Colour: black	No.	2		R
5.3	Internal Glazing: (Refer to Construction Layouts and Glazing schedule- 130.B, 130.00, 130.01, 610.00) Supply, delivery and execution as per the layouts and glazing schedule:				
5.3.1	IG 01 - Internal glazing. Aluminium framed glazing panel with 300mm timber panel and 1200mm aluminium framed glass view panel to have 50 x 90mm anodised profile. Colour black. to have square bead colour to match frame to have 6.87mm laminated glass clear Refer to elevations	m²	17		R
5.3.2	IG 02 - Internal glazing aluminium framed 1200mm wide view panel frame 50 x 90mm anodised profile colour black to have square bead colour to match frame colour. Glass 6.87mm laminated glass clear	m²	123		R
5.3.3	IG 03 - Internal glazing aluminium framed 600mm wide view panel frame 50 x 90mm anodised profile colour black to have square bead colour to match frame colour. Glass 6.87mm laminated glass clear	m²	4		R
Total for Construction - Doors and Glazing - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection

Bill of Quantities
Section 2 - Bill No.6: Wall finishes

Description	Unit	QTY	Rate	Total
6 Wall Finishes - Basement, Ground floor and Upper levels				
6.1 Remove of existing (Refer to Demolition Plans - 120.B, 120.00, 120.01)				
Remove existing vinyl on exterior glazing	Sum	1		R
6.1.1 WF E1 - Existing wall tiles with timber dado rail in ablutions to be stripped and removed from site	m²	128		R
6.1.2 WF E2 - Remove existing timber dado rail	m	37		R
6.1.3 WF E3 - Remove existing wallpaper along with the dado rail	m²	71		R
6.1.4 WF E4 - Remove existing timber panelling	m²	78		R
6.1.5 WF E5 - Remove existing kitchen splashback tiles	m²	13		R
6.1.6 Make good where all wallpaper and tiling has been removed. Allow to skim	m²	212		R
6.2 Painting (Refer to Wall Finishes Plan- 150.B, 150.00, 150.01) Supply, delivery and execution of painting as per the layouts: Note: Contractor to account to prepare walls to receive new paint finish				
6.2.1 WF P1 - To paint wall in one coat of professional gypsum and plastering primer (PP700) and two full coats of light grey (General) To match dulux Code: Snowfield 00NN 72/000	m²	2208		R
6.2.2 WF P2 - To paint wall in one coat of professional gypsum and plastering primer (PP700) and two full coats of Dark grey (Accent) To match dulux Code: Charcoal slate 30BB 21/014	m²	567		R
6.2.3 WF P3 - To paint wall in one coat of professional gypsum and plastering primer (PP700) and two full coats of trade white	m²	1130		R
6.2.4 WF P4 - To paint wall in one coat of professional gypsum and plastering primer (PP700) and two full coats of Dusty blue (Accent) To match dulux Code: Pebble drift 90BG 17/120	m²	302		R
6.2.5 WF P4 - To paint wall in one coat of professional gypsum and plastering primer (PP700) and two full coats of Dusty red (Accent) To match dulux Code: Goodwin court 10YR 17/184	m²	88		R
6.3 Tiling (Refer to Wall Finishes Plan- 150.B, 150.00, 150.01) Supply, delivery and execution of tiling as per the layouts: Note: Tendered rate should allow for supply, installation, tile glue, grout and tile spacers as necessary Note: Wastage @ 10% included in qty				
6.3.1 WF T1 - Supply and install Kronos Ash Matt Glazed Eco Porcelain Tile 600 x 1200mm	m²	20		R
6.3.2 WF T2 - Supply and install Subway Graphic Black Matt Ceramic Wall Tile 100 x 300m	m²	20		R
6.3.3 WF T3 - Supply and install Kronos Ash Matt Glazed Eco Porcelain Tile 600 x 1200mm	m²	26		R
6.4 Wall Preparation for wallpapers (Refer to Wall Finishes Plan- 150.B, 150.00, 150.01) Supply, delivery and execution as per the layouts and below: Note: Tenderer to confirm required preparation from wallpaper supplier.				
6.4.1 Wall preparation to walls which are to receive wallpaper. Prepare wall with solvent based primer as per wallpaper supplier specification.	m²	71		R
TOTAL CARRIED FORWARD TO NEXT PAGE				R

TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE					R
6.5	Door Painting (Refer to Door Layouts and schedule- 600.B, 600.00, 600.01, 600.S) Supply, delivery and execution of door paint:				
6.5.1	Existing Doors Note: Contractor to prepare door panel and frame to receive new finishes Note: Contractor to supply paint and doors to be painted on all door surfaces and contractors should remove and reinstall back into position. Note: Door and frame to be painted to match dulux Code: Charcoal slate 30BB 21/014 (Refer to manufacturing instruction)				
6.5.1.1	EX D1 - Paint single hollow core door on all sides	No.	11		R
6.5.1.2	EX D2 - Paint timber double door	No.	4		R
6.5.1.3	EX D3 - Paint single timber door panel reused in new position	No.	9		R
6.5.1.4	EX D4 - Paint single steel basement gate with anti-rust primer. To be painted in enamel to match dulux Code: Charcoal slate 30BB 21/014	No.	1		R
6.5.1.5	EX D5 - Paint double Masonite door	No.	1		R
6.5.2	New Doors (Refer to Door Layouts and schedule- 600.B, 600.00, 600.01, 600.S) Note: Contractor to supply paint and paint door panels to be installed Doors to be painted on all surfaces to match dulux colour Code: Charcoal slate 30BB 21/014 Frame to be aluminium. Colour: black				
6.5.2.1	DD 1 - Paint Masonite double swing door	No.	4		R
6.5.2.2	DF 1 - Paint solid timber single swing door	No.	1		R
6.5.2.3	DT 1 - Paint solid core single swing door	No.	7		R
6.5.2.4	DT 2 - Paint Masonite single swing door	No.	43		R
6.5.2.5	DT 3 - Paint semi solid single swing door	No.	19		R
6.5.2.6	DT 4 - Paint solid timber double door	No.	2		R
Total for Wall Finishes - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection

Bill of Quantities
Section 2 - Bill No.7: Floor Finishes

Description	Unit	QTY	Rate	Total
7 Floor Finishes - Basement, Ground floor and Upper levels				
7.1 Alteration & Removal (Refer to Demolition Plans - 120.B, 120.00, 120.01)				
7.1.1 Existing access flooring and related finish to be carefully taken out and removed from site including skirting. Area to be made good and prepared for new finish	m²	110		R
7.1.2 Existing broadloom carpet to be uplifted and removed from site (Broadloom)	m²	812		R
7.1.3 Existing carpet tiles to be uplifted and removed from site	m²	11		R
7.1.4 Existing tiles to be demolished and removed from site including new self levelling screed	m²	362		R
7.1.5 Existing vinyl floor to be demolished and removed from site	m²	80		R
7.2 Flooring to be retained (Refer to Floor Finishes Plans - 140.B, 140.00, 140.01)				
7.2.1 EX C - Existing carpet to be retained. To be thoroughly cleaned. Contractor to advise if carpet is suitable to be retained	m²	751		R
7.2.2 EX T - Existing tiles to be retained. To be thoroughly cleaned. Contractor to advise if carpet is suitable to be retained	m²	86		R
7.3 New Floor Finishes (Refer to Floor Finishes Plans - 140.B, 140.00, 140.01)				
Note: Contractor should supply and install the floor finish along with provisional works (screeding, smoothing compound, tile glue, grout and tile spacers etc) that are required as per below (Tiling, carpets, vinyls and skirting, trims) Note: Wastage @ 10% included in qty				
7.3.1 New Carpets (Refer to Floor Finishes Plans - 140.B, 140.00, 140.01)				
Note: Contractor should supply and install the floor finish along with provisional works (screeding, smoothing compound, tile glue, grout and tile spacers etc) that are required. Note: Preparation: Apply smoothing compound				
7.3.1.1 C1 - To supply and install 500 x 500mm commercial carpet tiles incl smoothing compound UBI Style 08	m²	523		R
7.3.1.2 C2 - To supply and install 500 x 500mm commercial carpet tiles incl smoothing compound Ubi Style 01	m²	240		R
7.3.1.3 C3 - To supply and install 500 x 500mm commercial carpet tiles incl smoothing compound UBI Style 16	m²	34		R
7.3.1.4 C4 - To supply and install 500 x 500mm commercial carpet tiles incl smoothing compound UBI Style 12	m²	41		R
7.3.1.5 C5 - To supply and install 500 x 500mm commercial carpet tiles incl smoothing compound UBI Style 15	m²	77		R
7.3.1.6 C5 - To supply and install 500 x 500mm commercial carpet tiles incl smoothing compound UBI Style 13	m²	17		R
7.3.2 New floor Tiling (Refer to Floor Finishes Plans - 140.B, 140.00, 140.01)				
Note: Contractor should supply and install the floor finish along with provisional works (screeding, smoothing compound, tile glue, grout and tile spacers etc) that are required. Note: Supply, install and execute (include tile glue, grout and tile spacers as necessary)				
7.3.2.1 T1 - To supply and install matt glazed 600 x 1200 mm. Kronos ash matt	m²	241		R
7.3.3 New floor Vinyl (Refer to Floor Finishes Plans - 140.B, 140.00, 140.01)				
Note: Contractor should supply and install the floor finish along with provisional works (screeding, smoothing compound, tile glue, grout and tile spacers etc) that are required. Note: Preparation: Apply smoothing compound				
7.3.3.1 V1 - To supply and install commercial vinyl wood look LVT plank incl smoothing compound classic	m²	268		R
7.3.3.2 V4 - To supply and install commercial vinyl wood look LVT plank. incl smoothing compound Echo	m²	85		R
7.3.4 New Skirting (Refer to Floor Finishes Plans - 140.B, 140.00, 140.01)				
Note: Contractor should supply and install the floor finish along with provisional works (screeding, smoothing compound, tile glue, grout and tile spacers etc) that are required. Note: Wastage @ 10% included in qty				
7.3.4.1 SK2 - 75mm high tiled skirting to match floor tile, unless otherwise specified on plan/elevation per linear meter	m	231		R
7.3.4.2 SK3 - 75mm high aluminium black anodised skirting. Colour: Black per linear meter	m	1891		R
7.3.5 New floor trims and strips (Refer to Floor Finishes Plans - 140.B, 140.00, 140.01)				
Note: Contractor should supply and install the floor finish along with provisional works (screeding, smoothing compound, tile glue, grout and tile spacers etc) that are required. Note: Wastage @ 10% included in qty				
7.3.5.1 TR1 - Anodized aluminium floor nosing strip	m	102		R
7.3.5.2 TR2 - Anodized aluminium floor transition trim to have natural anodised finish per linear meter	m	63		R
7.3.5.3 TR3 - Anodized aluminium floor transition trim matt bronze finish per linear meter	m	61		R
Total for Floor Finishes - CARRIED FORWARD TO FINAL SUMMARY				R

MHSC Office Renovation - Tuscany Office Park*Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection***Bill of Quantities****Section 2 - Bill No.8: Coring**

Description		Unit	QTY	Rate	Total
8 Coring- Basement, Ground floor and Upper levels					
8.1	<u>Coring</u>				

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection

Bill of Quantities
Section 2 - Bill No.9: Shopfitted Items

Description		Unit	QTY	Rate	Total
9 Shopfitted Items - Basement, Ground floor and Upper levels					
9.10	Shopfitting: (Refer to Shopfitting Plans and details - 700.B, 700.00, 700.01, 700.02) Note: Tenderer is to price this section of works after careful study of relevant 700 series drawing and detail specification as outlined in tender drawing pack Note: Shopfitter to include supply of fabric and upholstery where required.				
9.1.1	B 01 - Bench seating - Refer to drawing 700.B01	No.	1		R
9.1.2	B 02A - Bench seating with high table and planter - Refer to drawing 700.B02	No.	1		R
9.1.3	B 02B - Bench seating with high table and planter - Refer to drawing 700.B02	No.	1		R
9.1.5	J 01 - Reception desk - Refer to drawing 700.J01	No.	1		R
9.1.6	J 02 - Display pedestals - Refer to drawing 700.J02	No.	1		R
9.1.7	K 01 - Canteen kitchenette back unit - Refer to drawing 700.K01	No.	1		R
9.1.8	K 02 - Canteen kitchenette front unit - Refer to drawing 700.K02	No.	1		R
9.1.9	K 03 - Kitchenette counter - Refer to drawing 700.K03	No.	3		R
9.1.10	K 04 - Server unit (30 seater) - Refer to drawing 700.K04	No.	1		R
9.1.11	K 05 - Server loft - Refer to drawing 700.K05	No.	1		R
9.1.12	T 01 - Canteen high counter - Refer to drawing 700.T01	No.	1		R
9.1.13	T 02 - Work bench (BOH) - Refer to drawing 700.T02	No.	2		R
9.1.14	T 03 - Library high table - Refer to drawing 700.T03	No.	2		R
9.1.15	V 01 A - Female Ablution vanity - Refer to drawing 700.V01	No.	2		R
9.1.16	V 01 B - Male Ablution Vanity - Refer to drawing 700.V01	No.	2		R
Total for Shopfitted Items - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection

Bill of Quantities
Section 2 - Bill No.10: Plumbing, Drainage and Sanware

Description		Unit	QTY	Rate	Total (excl VAT)
10 Plumbing Drainage and Sanware (All floors)					
10.1	Demolition (Refer to Demolition Plans - 120.B, 120.00, 120.01)				
	Note: Execute plumbing works as per the plans and below:				
10.1.1	Existing water points to be closed off and made safe. All visible pipework to be removed. Walls and floors to be patched and prepared for new wall finishes	sum	1		R
10.1.2	Existing sanware to ablutions to be removed. All supply, drainage, pipework to be checked and made good for new fittings	sum	1		R
10.2	Wet Services Installations				
10.2.1	Cold Water and Hot Water Equipment and Appliances				
	(Refer to Water and Drainage Plans: 25002-WA-1004, 25002-WA-1005, 25002-WS-1006_1001, 25002-WS-1007, 25002-WS-1008, 25002-WS-1009_1001)				
	Supply, deliver, and install cold water and hot water equipment and appliances				
10.2.1.1	10L Undersink Water Heater, complete with inlet control valve, pressure relief valve, flexible connectors, and wall-mounting bracket	No.	4		R
10.2.1.2	5L Hydroboil Unit, stainless steel with wall bracket, drip tray, overflow, isolating valve, and electrical connection kit	No.	4		R
10.2.1.3	Pressure Relief Valve, brass or stainless steel, suitable for high-pressure domestic water systems, pre-set to 600kPa	Sum	1		R
10.2.1.4	In-Line Monitor Water Meter, pulse-output type, to monitor flow to critical wet services zones	No	1		R
10.2.1.5	Electrical Connections for Wet Services Equipment, including: cable termination glands, 25 mm PVC sleeves, 25 mm electrical conduits, circuit breakers, and 20A weatherproof field isolators	Sum	1		R
10.2.2	Internal Plumbing Systems				
	(Refer to Water and Drainage Plans: 25002-WA-1004, 25002-WA-1005, 25002-WS-1006_1001, 25002-WS-1007, 25002-WS-1008, 25002-WS-1009_1001)				
	Supply, deliver, and install internal plumbing systems				
10.2.2.1	Copper piping Hot & Cold (15 mm and larger sizes) incl. fittings	m	80		R
10.2.2.2	Copper piping Hot & Cold (22 mm and larger sizes) incl. fittings	m	60		R
10.2.2.3	Pipe insulation Hot water to 15 mm copper pipes	m	40		R
10.2.2.4	50mm PVC Waste Pipe System	m	60		R
10.2.2.5	75mm PVC Waste Pipe System	m	80		R
10.2.2.6	110mm PVC Soil/Stack Pipe System	m	20		R
10.2.2.7	Copper pipe valves (15mm and larger sizes)	Item	1		R
10.2.2.8	Pipe fittings for copper (elbows, tees, reducers, unions, etc.)	Item	1		R
10.2.2.9	Pipe fittings for PVC (elbows, tees, reducers, unions, etc.)	Item	1		R
10.2.2.10	Connection to existing fire water main (50mm tapping incl. valve and reducer to 25 mm if required)	Item	1		R
TOTAL CARRIED FORWARD TO NEXT PAGE					R

TOTAL BROUGHT FORWARD FROM PREVIOUS PAGE					R
10.3	<u>Supply and install of new Sanware Fittings</u> Note: In the below items, contractor to ensure that it includes pipes, suitable fittings, connection, P- traps, water points, waste points, angle valves,				
10.3.1	SW B1 - WHB-WCS RECTANGULAR COUNTER BASIN SIZE: 475X370X130mm COLOUR: WHITE. SHAPE: RECTANGULAR INSTALLATION POSITION: COUNTERTOP BASIN. NO PROVISION FOR TAPHOLES OR OVERFLOW. WASTE: 32X75mm UNSLOTTED POPUP WARRANTY: 10 YEARS	Item	8		R
10.3.2	SW B2 - WHB-PARAPLEGIC WC PARAPLEGIC BASIN & SEMI PEDESTAL. SIZE: 500W X 480H X 410Dmm MATERIAL: VITREOUS CHINA COLOUR: WHITE. SHAPE: ROUNDED INSTALLATION POSITION:WALL-MOUNTED BASIN PROVISIONS: PREPUNCH 1 TAP HOLE (MIXER) AND OVERFLOW. WASTE: 70X110mm SLOTTED POPUP WARRANTY: 10 YEARS	Item	2		R
10.3.3	SW B3 - SINGLE SINK AND DRAINER – KITCHENETTES SIZE: 800 x 460 x 149mm MATERIAL: STAINLESS STEEL FINISH: SATIN SHAPE: RECTANGULAR FORMAT: SINGLE BOWL WITH DRAINER INSTALLATION POSITION: INSET SINK PROVISIONS: NO TAP HOLES AND NO OVERFLOW. REVERSIBILITY: YES DRAIN: WASTE INCLUDED –ADDITION OF 1 x 90 BASKET STRAINER WASTE FITTINGS WARRANTY: 25 YEARS	Item	3		R
10.3.4	SW B4 - DOUBLE BOWL SINK AND DRAINER –CANTEEN SIZE: 1160 x 460 x 149mm MATERIAL: STAINLESS STEEL FINISH: SATIN SHAPE: RECTANGULAR FORMAT: DOUBLE BOWL WITH DRAINER ON RIGHT HAND SIDE INSTALLATION POSITION: INSET SINK PROVISIONS: NO TAP HOLES AND NO OVERFLOW. REVERSIBILITY: YES DRAIN: WASTE INCLUDED –ADDITION OF 2 x 90 BASKET STRAINER WASTE FITTINGS WARRANTY: 25 YEARS	Item	1		R
10.3.5	SW B5 - PREP BOWL –EXCO BOARDROOM SIZE: 450mm DIAMETER x 160mm MATERIAL: STAINLESS STEEL FINISH: SATIN SHAPE: ROUND FORMAT: SINGLE BOWL WITH NO DRAINER INSTALLATION POSITION: INSET SINK PROVISIONS: NO TAP HOLES AND NO OVERFLOW. REVERSIBILITY: NO DRAIN: WASTE INCLUDED –ADDITION OF 1 x 90 BASKET STRAINER WASTE FITTINGS WARRANTY: 25 YEARS	Item	1		R
10.3.6	SW M1 - MIXER TAP –WCS SINGLE LEVER BASIN MIXER 190 SIZE: 275X159mm PROJECTION 159mm SPOUT HEIGHT: 191mm HANDLE: LEVER HANDLE FINISH: BLACK BRUSHED CHROME SPRAY TYPE: NORMAL SPRAY MAX FLOW RATE: 5L/min INSTALLATION POSITION: ON COUNTER –TAP HOLES TO BE CUT IN JOINERY TEMPERATURE: ADJUSTABLE LIMITATION CONNECTION TYPE: G ½ CONNECTIONS SWIVEL: NONE PROVISIONS: QUICK CLEAN, AIRPOWER TECHNOLOGY, ECOSMART TECHNOLOGY COMFORT ZONE: 190 WASTE: WITHOUT WASTE SET. WARRANTY: 15 YEARS	Item	8		R
10.3.7	SW M2 - MIXER TAP PARAPLEGIC WC SINGLE LEVER BASIN MIXER 70 WITH EXTRA LONG HANDLE SIZE: 235(H)X140(W)X70(L) mm PROJECTION 95mm SPOUT HEIGHT: 67mm HANDLE: LEVER - EXTRA LONG BARRIER-FREE HANDLE FINISH: CHROME HANDLE CONTROL: ELBOW ACTION STANDARD SINGLE LEVER APPROVALS: SABS & JASWIC INSTALLATION POSITION: DIRECT ON FITTING – PREPUNCH TAP HOLES TEMPERATURE: ADJUSTABLE LIMITATION CONNECTION TYPE: G ½ CONNECTIONS WASTE: WITHOUT WASTE SET. WARRANTY: 15 YEARS	Item	2		R
10.3.8	SW M3 - MIXER TAP KITCHENS SINGLE LEVER SATURN CUBE SWIVEL KITCHEN MIXER OR EQUIVALENT APPROVED SIZE: 363X220mm PROJECTION 220mm SPOUT HEIGHT: 281mm HANDLE: SIDE LEVER HANDLE FINISH: STAINLESS STEEL 304 SPRAY TYPE: NORMAL SPRAY AERATOR: HONEYCOMB SPOUT VERSION: U-SPOUT INSTALLATION POSITION: ON COUNTER –TAP HOLES TO BE CUT IN JOINERY TEMPERATURE: ADJUSTABLE LIMITATION CONNECTION TYPE: 1 BOLT, 3/8" SUPPLY HOSE SWIVEL: 360 DEGREES WARRANTY: 5 YEARS	Item	5		R
10.3.9	SW T 2 - PARAPLEGIC SUITE (PAN CISTERN & MECH) INCLUDING SEAT DIMENSIONS: 365W X 731D X 855H mm MATERIAL: VITREOUS CHINA COLOUR: WHITE -GLOSS CISTERN: CLOSE COUPLED ACCESSIBILITY-FOCUSSED RAISED HEIGHT PARAPLEGIC SIDE FLUSH CISTERN, AND MECHANISM. OUTLET DRAIN: HORIZONTAL SEAT: SOFT CLOSE TOILET SEAT. WARRANTY PERIOD: MIN 20 YEAR CONTRACTOR TO INCLUDE TOILET SEAT & MECHANISM	Item	2		R
10.4	<u>Testing, Commissioning and Handover</u> <i>Testing, commissioning, and handover of the wet services installation in accordance with SANS 10252, and applicable wet services drawings and specifications</i>				
10.4.1	Test and commission the above wet services installation and issue a Wet Certificate of Compliance or relevant inspection report upon completion.	Sum	1		R
Total for Plumbing, Drainage and Sanware - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park
Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection

Bill of Quantities
Section 2 - Bill No.11: Fire Protection Installations

Description		Unit	QTY	Rate	Total (excl VAT)
11 Fire Protection Installations (All floors)					
11.1	<u>Fire Equipment</u> Supply, deliver, and install fire protection equipment				
11.1.1	Fire hydrant complete with GMS stand pipe, landing valve, cap, and chain (SANS approved)	No	1		R
11.1.2	30m Fire Hose Reel, wall-mounted, complete with nozzle, stop valve, and pipework to nearest water point (SANS approved)	No	6		R
11.1.3	CO ₂ Fire Extinguisher (5 kg), SANS 1522 approved, complete with wall bracket	No	6		R
11.1.4	DCP Fire Extinguisher (9 kg), SANS 1910 approved, complete with wall bracket	No	30		R
11.1.5	Fire Extinguisher Wall Bracket, steel, powder-coated, wall-mounted, with securing strap or clip, suitable for DCP or CO ₂ extinguishers up to 9kg, with mounting accessories, including anchor bolts, screws, wall plugs	No	36		R
11.2	<u>Fire Water Supply Piping</u> Supply, deliver, and install fire protection piping systems				
11.2.1	50 mm Ø GMS pipe (medium duty, SANS 62 or equivalent)	m	40		R
11.2.2	50 mm Ø Fittings (incl. elbows, tees, reducers, unions, brackets/clamps, for 50mm line etc.)	Sum	1		R
11.2.3	25 mm Ø GMS pipe (medium duty, SANS 62 or equivalent)	m	88		R
11.2.4	25 mm Ø Fittings (incl. elbows, tees, reducers, unions, brackets/clamps, for 25mm line etc.)	Sum	1		R
11.2.5	50 mm isolating valve (ball/gate valve, brass or gunmetal)	No	3		R
11.2.6	25 mm isolating valve (ball/gate valve, brass or gunmetal)	No	5		R
11.2.7	Connection to existing fire water main (50mm tapping incl. valve and reducer to 25 mm if required)	Item	1		R
11.2.8	Pressure testing and commissioning of full pipe system	Item	1		R
11.3	<u>Testing, Commissioning and Handover</u> Testing, commissioning, and handover of the fire protection installation in accordance with SANS 10400-T, and applicable fire protection drawings and specifications				
11.3.1	Test and commission the above fire protection installation and issue a Fire Certificate of Compliance or relevant inspection report upon completion.	Sum	1		R
Total for Fire Protection Installations - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park**Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection****Bill of Quantities****Section 2 - Bill No.12: Additional External and Internal Works**

Description		Unit	QTY	Rate	Total (excl VAT)
12	Additional External and Internal Works				
12.1	<u>Excavation</u> Supply, delivery, and execution of excavation works for the installation of underground piping, in accordance with SANS 10400 Part G. This includes trenching to specified depths and widths, ensuring safe access and support, and preparing the site for compliant pipe laying.				
12.1.1	Site preparation, setting out, and trench excavation to a depth of 800 mm below ground (in soil)	Item	1		R
12.1.2	Excavation in soft or hard rock, including controlled breaking and disposal where encountered	Item	1		R
12.1.3	Provision of safe access, sidewall support, and trench dewatering as required	Item	1		R
12.1.4	Preparation of trench base and placement of approved bedding material	Item	1		R
12.1.5	Laying of underground piping to correct line, level, and gradient	Item	1		R
12.1.6	Alignment, jointing, and securing of pipes per manufacturer specifications	Item	1		R
12.1.7	Inspection and testing of pipe installation prior to backfilling	Item	1		R
12.1.8	Backfilling with selected material in compacted layers	Item	1		R
12.1.9	Final compaction and restoration of surface to match surrounding conditions	Item	1		R
12.1.10	Removal of surplus material and compliance with SANS 10400 Part G, SANS 10400 Part T, and other relevant local standards	Item	1		R
12.2	<u>Core Drilling</u> Supply, delivery, and execution of core drilling works in accordance with relevant sections of SANS 10400. This includes drilling clean, precise holes through concrete, masonry, or structural surfaces to specified diameters and depths, using appropriate equipment and cooling methods. All works shall ensure minimal disruption to surrounding finishes, safe working practices, and proper preparation for follow-on installations such as piping or anchoring systems.				
12.2.1	Site preparation and marking of drilling locations according to approved drawings	Item	1		R
12.2.2	Core drilling through concrete, masonry, or structural surfaces to specified diameter and depth	Item	1		R
12.2.3	Use of appropriate equipment, drill bits, and cooling systems to ensure clean and accurate holes	Item	1		R
12.2.4	Protection of surrounding finishes, fixtures, and services during drilling operations	Item	1		R
12.2.5	Removal and disposal of core material, slurry, and debris from site	Item	1		R
12.2.6	Cleaning and preparation of drilled holes for follow-on installations (e.g. piping, anchors)	Item	1		R
12.2.7	Compliance with applicable safety regulations and SANS 10400 requirements	Item	1		R
12.3	<u>Firewall Works</u> Supply, delivery, and execution of upgrade works to existing walls to achieve compliant firewall status, including treatment of air bricks and service penetrations. All works shall comply with SANS 10400 Part T (Fire Protection) and other applicable fire safety standards. The objective is to restore and enhance the wall's fire separation integrity using tested and certified fire-rated materials and systems. Installation shall be coordinated with other trades to prevent interference with existing services and ensure continuous fire resistance across all penetrations and openings.				
12.3.1	Seal existing air bricks using fire-rated brick infill or 120-minute intumescent grilles to restore wall integrity	Item	1		R
12.3.2	Prepare and seal wall penetrations with 120-minute fire-rated mortar or board (e.g. Promat Fire Barrier Board)	Item	1		R
12.3.3	Install 120-minute fire-rated mastic (e.g. Hilti CP 606 or Nullifire FS703) around cable and pipe entries	Item	1		R
12.3.4	Fit 120-minute intumescent pipe collars or wraps (e.g. Hilti CFS-C or Rockwool) around plastic pipe penetrations	Item	1		R
12.3.5	Apply 120-minute fire-rated mortar or gypsum-based compound to patch and reinforce wall surfaces	Item	1		R
12.3.6	Conduct final inspection and ensure all firestop materials are installed per manufacturer guidelines and certified for 120-minute fire resistance	Item	1		R
Total for Additional External and Internal Works - CARRIED FORWARD TO FINAL SUMMARY					R

MHSC Office Renovation - Tuscany Office Park**Alterations, Building Works, Internal Fit-Out, Furnishing and Fire Protection****Bill of Quantities****Section 2 - Bill No.13: Provisional Sums**

Description		Unit	QTY	Rate	Total (excl VAT)
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 Employer'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 fitments, 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					
13.1 Furniture and Plants					
13.1.1	Provide the sum of R4 000 000.00 (Four million Rand) NETT for the Supply, Delivery and Installation of loose office furniture and Faux Plants 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 4 000 000.00
13.1.2	Allow for Profit on above	% Item			R
13.1.3	Allow for attendance on the above	% Item			R
13.2 Structural Works - Revamping of the wheelchair access					
13.2.1	Provide the sum of R30 000.00 (Thirty Thousand Rand) NETT for the revamping of the Wheelchair access at the entrance of the building 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 30 000.00
13.2.2	Allow for Profit on above	% Item			R
13.2.3	Allow for attendance on the above	% Item			R
13.3 Accessible Indoor Stairlift Platform					
13.3.1	Provide the sum of R400 000.00 (Four Hundred Thousand Rand) NETT for the Supply, delivery, and installation, and commissioning of an accessible internal stairlift 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 400 000.00
13.3.2	Allow for Profit on above	% Item			R
13.3.3	Allow for attendance on the above	% Item			R
Total for Provisional Sums - CARRIED FORWARD TO FINAL SUMMARY					R

Bill of Quantities

Bill of Quantities Summary

Bill Number	Description	Total
BILL OF QUANTITIES SUMMARY		
Section 1	Preliminaries	R
Section 2 - Bill No. 1	Alteration and Removal Works	R
Section 2- Bill No. 2	Construction - Wet Works	R
Section 2- Bill No. 3	Construction - Dry Walls	R
Section 2- Bill No. 4	Construction - Ceilings	R
Section 2- Bill No. 5	Construction - Doors and Glazing	R
Section 2- Bill No. 6	Wall finishes	R
Section 2- Bill No. 7	Floor finishes	R
Section 2- Bill No. 8	Coring	R
Section 2- Bill No. 9	Shopfitted Items	R
Section 2- Bill No. 10	Plumbing, Drainage and Sanware	R
Section 2- Bill No. 11	Fire Protection Installations	R
Section 2- Bill No. 12	Additional External and Internal Works	R
Section 2- Bill No. 13	Provisional Sums	R
	Subtotal (Excl VAT)	R
	Contingency - Allow/ provide the sum of Two Million Rands (R2 000 000.00) nett for contingencies to be used at the discrepency of the principal agent and deducted in whole or in part if not required.	R 2 000 000.00
		R
	Subtotal (Excl VAT, including Contingency)	R
	VAT at 15%	
TOTAL TENDER PRICE (Including VAT) CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE		R