

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

PREAMBLES FOR TRADES

*The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. **Where such preambles are not applicable** (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications*

Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same

The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles

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

Carried to Summary

SECTION NO. 1

BILL NO. 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

STRUCTURE OF THIS PRELIMINARIES BILL

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

Section C : Any special clauses to meet the particular circumstances of the project

PRICING OF PRELIMINARIES

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

A 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**

Carried to Summary

SECTION NO 1

BILL NO 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

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

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

A 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:.....

Item

Carried to Summary

R

SECTION NO 1

BILL NO 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Clause 2.0 - Law, regulations and notices F:..... V:..... T:.....	Item	
B	Clause 3.0 - Offer and acceptance F:..... V:..... T:.....	Item	
C	Clause 4.0 - Cession and assignment F:..... V:..... T:.....	Item	
D	Clause 5.0 - Documents Value Added Tax Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) Priced document as specification Clause 5.4 is applicable The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any. Electronic issue of drawings All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6] It is the responsibility of the contractor to allow for an on-site printer and to ensure that hard copies of the latest construction drawings and information are printed timeously and kept on site as soon as the contractor has received the electronically issued drawings and information. F:..... V:..... T:.....	Item	
	<u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Clause 6.0 - Employer's agents Delegated authority The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works is delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions: 1. <u>Architect</u> <i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i> 1.1 Duties [6.2] : The architect is responsible for the architectural design, functional design and quality inspection of the works 1.2 Contract instructions [6.2; 17.1] : 1.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement 1.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works 1.2.3 The site [13.0] 1.2.4 Compliance with the law, regulations and bylaws [2.1] 1.2.5 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works 1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2] 1.2.7 Removal or re-execution of work <u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			
			R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

- 1.2.8 Removal or substitution of any **materials and goods**
- 1.2.9 Protection of the **works**
- 1.2.10 Making good physical loss and repairing damage to the **works** [23.2.2]
- 1.2.11 Rectification of **defects** [21.2]
- 1.2.12 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 1.2.13 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums**
- 1.2.14 Appointment of a **subcontractor** [14.0; 15.0]
- 1.2.15 Work by **direct contractors** [16.0]
- 1.2.16 On suspension or termination, protection of the **works**, removal of **construction equipment** and surplus **materials and goods** [29.0]

2. Quantity surveyor

2.1 Duties [6.2] :

The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the **works**

2.2 **Contract instructions** [6.2; 17.1] :

2.2.1 No **contract instructions** delegated to the Quantity surveyor

Carried to Summary

SECTION NO. 1

BILL NO. 1

PRELIMINARIES

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

3. Civil and structural engineer

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

3.1 Duties [6.2] :

The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the **works**

3.2 Contract instructions [6.2; 17.1] :

3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

3.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

3.2.3 The **site** [13.0]

3.2.4 Compliance with the **law**, regulations and bylaws [2.1]

3.2.5 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**

3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

3.2.7 Removal or re-execution of work

3.2.8 Removal or substitution of any **materials and goods**

3.2.9 Protection of the **works**

3.2.10 Making good physical loss and repairing damage to the **works** [23.2.2]

3.2.11 Rectification of **defects** [21.2]

Carried to Summary

SECTION NO 1

BILL NO 1

PRELIMINARIES

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

3.2.12 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**

3.2.13 Expenditure of **budgetary allowances**, **prime cost amounts** and **provisional sums**

4. Mechanical engineer

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

4.1 Duties [6.2] :

The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the **works** and, where appointed by the **employer** for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

4.2 **Contract instructions** [6.2; 17.1] :

4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

4.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

4.2.3 Compliance with the **law**, regulations and bylaws [2.1]

4.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**

4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

Carried to Summary

SECTION NO. 1

BILL NO. 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

- 4.2.6 Removal or re-execution of work
- 4.2.7 Removal or substitution of any **materials and goods**
- 4.2.8 Protection of the **works**
- 4.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 4.2.10 Rectification of **defects** [21.2]
- 4.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 4.2.12 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums**

5. Electrical engineer

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

5.1 Duties [6.2] :

The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the **works** and, where appointed by the **employer** for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

5.2 **Contract instructions** [6.2; 17.1] :

- 5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

Carried to Summary

SECTION NO 1

BILL NO 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

- 5.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**
- 5.2.3 Compliance with the **law**, regulations and bylaws [2.1]
- 5.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 5.2.6 Removal or re-execution of work
- 5.2.7 Removal or substitution of any **materials and goods**
- 5.2.8 Protection of the **works**
- 5.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 5.2.10 Rectification of **defects** [21.2]
- 5.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 5.2.12 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums**

6 Fire consultant

Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA

6.1 Duties [6.2] :

The fire consultant is responsible for all aspects of rational fire design and quality inspection of the **works**

Carried to Summary

SECTION NO 1

BILL NO 1

PRELIMINARIES

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

6.2 Contract instructions [6.2; 17.1] :			
6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
6.2.2 Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
6.2.3 Compliance with the law , regulations and bylaws [2.1]			
6.2.4 Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
6.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
6.2.6 Removal or re-execution of work			
6.2.7 Removal or substitution of any materials and goods			
6.2.8 Protection of the works			
6.2.9 Making good physical loss and repairing damage to the works [23.2.2]			
6.2.10 Rectification of defects [21.2]			
6.2.11 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion , a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
6.2.12 Expenditure of budgetary allowances , prime cost amounts and provisional sums			
<u>Carried to Summary</u>			
<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

7. Health and safety consultant

7.1 Duties [6.2] :

The health and safety consultant is responsible for all aspects of health and safety of the **works**. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the **works**. He shall:

- 7.1.1 Act as the **employer's agent** in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended
- 7.1.2 Prepare and update the health and safety specification for the **works**
- 7.1.3 Agree with the **contractor** the health and safety plan for the **works**
- 7.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations
- 7.1.5 Stop the execution of the **works** where the agreed specification or plan is not adhered to

F:..... V:.....
T:.....

Item

A Clause 7.0 - Design responsibility

F:..... V:.....
T:.....

Item

Insurances and securities (A8-A11)

B Clause 8.0 - **Works risk**

F:..... V:.....
T:.....

Item

Carried to Summary

R

SECTION NO 1

BILL NO 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

A	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item
B	Clause 10.0 - Insurances F:..... V:..... T:.....	Item
C	Clause 11.0 - Securities	
D	Guarantee for payment	N/A
E	The employer shall provide to the contractor a guarantee for payment in the amount ofRand (R.....) [11.5.1]. The contractor shall consequently waive his lien or right of continuing possession of the works [11.10]	N/A
F	Extension of waiver of lien	N/A
G	The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10] F:..... V:..... T:.....	N/A Item
	<u>Execution (A12 - A17)</u>	
H	Clause 12.0 - Obligations of the parties Office accommodation The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site . Such offices shall be kept clean and fit for use at all times [12.2.18]	
	<u>Carried to Summary</u>	
	<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES	R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

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

The **contractor** shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the **works** by the **contractor**. The **contractor** shall pay all deposits or fees in this regard

It is, however, specifically recorded that the **employer** shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto

F:..... V:.....
T:.....

Item

A Clause 13.0 - Setting out

F:..... V:.....
T:.....

Item

B Clause 14.0 - Nominated **subcontractors**

C F:..... V:.....
T:.....

Item

D Clause 15.0 - Selected **subcontractors**

F:..... V:.....
T:.....

Item

Carried to Summary

R

SECTION NO 1

BILL NO 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2. Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1] F:..... V:..... T:.....			
B	Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor F:..... V:..... T:..... <u>Completion (A18 - A24)</u>	Item		
C	Clause 18.0 - Interim completion	Item		
D	Clause 19.0 - Practical completion F:..... V:..... T:.....	Item		
	<u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Clause 20.0 - Completion in sections F:..... V:..... T:.....	Item	
B	Clause 21.0 - Defects liability period and final completion F:..... V:..... T:.....	Item	
C	Clause 22.0 - Latent defects liability period F:..... V:..... T:.....	Item	
D	Clause 23.0 - Revision of the date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2] F:..... V:..... T:.....	Item	
E	Clause 24.0 - Penalty for late or non-completion F:..... V:..... T:.....	Item	
F	Clause 25.0 - Payment		
	<u>Carried to Summary</u>		R
	<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Prices submitted

Where prices are submitted by the **contractor** or **subcontractor** during the progress of the **works** in respect of **contract instructions** or in regard to a claim under the terms of this **agreement** and notwithstanding the fact that such prices may be used in an interim **payment certificate**, there is to be no presumption of acceptance. Should the **principal agent** wish to accept any such prices prior to the issue of the **certificate of final completion**, it shall be in writing

F:..... V:.....
T:.....

Item

A Clause 26.0 - Adjustment of the **contract value** and **final account**

Fluctuations in costs

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the **contractor** [26.9.5]

Tenant installation/user requirements delayed

There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to **practical completion**

Should the **contractor** be instructed to do so he shall execute this work under the conditions pertaining to this **agreement** on the basis that a separate amount for **preliminaries** appurtenant to this work (if applicable) is agreed to between the **contractor** and the **principal agent** and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of **practical completion** of the **works**

The **employer** reserves the right to omit such work without compensation to the **contractor** for loss of profit or any other loss which the **contractor** may suffer as a result of such omission

Carried to Summary

R

SECTION NO 1

BILL NO 1

PRELIMINARIES

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Cost of claims

All costs incurred by the **contractor** in the preparation of claims shall be borne by the **contractor**. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this **agreement** [30.6 & 7] from making a determination on costs

Claims from subcontractors

The **contractor** shall review, assess and adjudicate any claims received by him from any **subcontractor** and thereafter submit same to the **principal agent** with a recommendation in order to assist the **principal agent** in adjudicating the claim [26.6]

F:..... V:.....
T:.....

Item

A Clause 27.0 - Recovery of expense and/or loss

F:..... V:.....
T:.....

Item

Suspension and termination (A28 - A29)

B Clause 28.0 - Suspension by the **contractor**

F:..... V:.....
T:.....

Item

C Clause 29.0 - Termination

F:..... V:.....
T:.....

Item

Dispute resolution (A30)

D Clause 30.0 - Dispute resolution

F:..... V:.....
T:.....

Item

Carried to Summary

R

SECTION NO 1

BILL NO 1

PRELIMINARIES

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	<u>Agreement</u> The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item	R
B	<u>Contract data</u> Tenderer's selections Before submission of his tender the contractor is to complete the tenderer's selections in the contract data F:..... V:..... T:.....	Item	
C	<u>SECTION B: GENERAL PRELIMINARIES</u> <u>Definitions and interpretation (B1)</u> Clause 1.1 - Definitions F:..... V:..... T:.....	Item	R
D	Clause 1.2 - Interpretation F:..... V:..... T:.....	Item	
E	<u>Documents (B2)</u> Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item	R
F	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item	
<u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Multiple procurement These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums F:..... V:..... T:.....	N/A	
B	Clause 2.3 - Availability of construction information F:..... V:..... T:.....	Item	
C	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:..... <u>Previous work and adjoining properties (B3)</u>	Item	
D	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
E	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
F	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <u>The site (B4)</u>	Item	
G	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....	Item	
<u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			R

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

A	Clause 4.2 - Enclosure of the works F:..... V:..... T:.....	Item		
B	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....	Item		
C	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item		
D	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....	Item		
E	Clause 4.6 - Services - known F:..... V:..... T:..... <u>Management of contract (B5)</u>	Item		
F	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item		
G	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
H	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
<u>Carried to Summary</u>				
<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES				
			R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Samples, shop drawings and manufacturer's instructions (B6)

A Clause 6.1 - Samples of materials

F:..... V:.....
T:.....

Item

B Clause 6.2 - Workmanship samples

F:..... V:.....
T:.....

Item

C Clause 6.3 - Shop drawings

F:..... V:.....
T:.....

Item

D Clause 6.4 - Compliance with manufacturer's instructions

F:..... V:.....
T:.....

Item

Deposits and fees (B7)

E Clause 7.1 - Deposits and fees

F:..... V:..... T:.....

Item

Temporary services (B8)

F Clause 8.1 - Water

F:..... V:.....
T:.....

Item

G Clause 8.2 - Electricity

F:..... V:.....
T:.....

Item

H Clause 8.3 - Ablution and welfare facilities

F:..... V:.....
T:.....

Item

Carried to Summary

R

SECTION NO 1

BILL NO 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Clause 8.4 - Communication facilities F:..... V:..... T:..... <u>Prime cost amounts (B9)</u>	Item		
B	Clause 9.1 - Responsibility for prime cost amounts Where details of materials for which prime cost amounts are to be allowed <u>are</u> readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc F:..... V:..... T:..... <u>Attendance on subcontractors (B10)</u>	Item		
C	Clause 10.1 - General attendance F:..... V:..... T:.....	Item		
D	Clause 10.2 - Special attendance F:..... V:..... T:..... <u>General (B11)</u>	Item		
E	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item		
F	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....	Item		
G	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item		
	<u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item	
B	Clause 11.5 - Disturbance Disturbance All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever F:..... V:.....T:.....	Item	
C	Clause 11.6 - Environmental disturbance		
D	Controlling all forms of pollution The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc		
E	The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works F:..... V:.....T:.....	Item	
F	Environmental management plan The employer has prepared an environmental management plan (EMP). The contractor shall price opposite this item for compliance with all the requirements of such EMP F:..... V:.....T:.....	Item	
	<u>Carried to Summary</u>		
	<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	
B	Clause 11.8 - Vermin F:..... V:..... T:.....	Item	
C	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item	
D	Clause 11.10 - Tenant installations F:..... V:..... T:.....	Item	
E	Clause 11.11 - Advertising F:..... V:..... T:.....	Item	
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
F	Contract Drawings The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent. F:..... V:..... T:.....	Item	
	<u>Carried to Summary</u>		
	<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		
			R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Trade Names Wherever a trade name for any product has been described in the document, the tenderer's attention is drawn to the fact that any other equivalent product may be used subject to the written approval of the architect and 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:.....	Item		
B	Authorisation For The Taking of Photographs The contractor shall obtain prior authorisation from the employer for the making of any sketches or the taking of any photographs of any site, installation, building or civil works belonging to the employer and shall ensure that all personnel, subcontractors and other persons entering the site shall comply with this requirement as well. F:..... V:..... T:.....	Item		
C	Warranties for materials and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract 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			
	<u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

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:.....

Item

A Overtime/Night time work

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:.....

Item

B 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:.....

Item

C Overloading

The **contractor** shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the **works** or temporary works eg scaffolding, etc. The **contractor** shall submit details of his proposed loading, storage, plant erection, etc to the **principal agent** for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the **principal agent's** requirements in connection with the provision of temporary support work, etc. Any damage caused to the **works** by overloading shall be made good by the **contractor** at his sole expense

F:..... V:.....T:.....

Item

Carried to Summary

R

SECTION NO 1

BILL NO 1

PRELIMINARIES

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

A	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:.....	Item		
	<u>Carried to Summary</u>		R	
<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Confidentiality 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 No information regarding this project shall be published or disclosed without the prior written consent of the employer F:..... V:..... T:.....	Item	R
B	Propping of floors below 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 F:..... V:..... T:.....	Item	
C	Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor and sent with the monthly claim to the principal agent/quantity surveyor F:..... V:..... T:.....	Item	
D	V&A Waterfront Rules/Code of Conduct The Contractor is to comply with the V&A Waterfronts rules and code of conduct during construction as set out by the V&A waterfront. F:..... V:..... T:.....	Item	
<u>Carried to Summary</u> <u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			R

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Broad based black economic empowerment (BBBEE) Tenders submitted will be evaluated taking into account their empowerment rating The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating F:..... V:.....T:.....	Item		
B	Advertising rights The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement F:..... V:.....T:.....	Item		
C	Media releases 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 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 F:..... V:.....T:.....	Item		
	<u>Carried to Summary</u>		R	
	<u>SECTION NO 1</u> <u>BILL NO 1</u> <u>PRELIMINARIES</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

Carried to Summary

SECTION NO 1

BILL NO 1

PRELIMINARIES

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

[illegible]

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>				
<u>BILL NO 1</u>				
<u>ALTERATIONS</u>				
<u>NOTE</u>				
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.				

<u>GENERAL</u>				
A	Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done, and allow for all work not specially mentioned but obviously intended and necessary for the proper completion of the works, as no claim for extra work in connection herewith will be entertained.	Item		
B	The whole of the old materials from the alterations except as hereinafter stated, or where described to be set aside for re-use, are to become the property of the Client. Old materials specified to be set aside for re-use are to be carefully removed, cleaned, stored, protected from injury and made good as required.	Item		
C	The Contractor is advised to take all dimensions affecting the existing building on the site as he will be held solely responsible for all new work being of the correct size.	Item		
D	In demolishing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the building and external works (pavings, etc). The Contractor must also protect all work not removed such as walls, floors, ceilings, doors, windows or other joinery fittings, etc, from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any structural or other damage to persons or property and for the safety of the structure.	Item		
<u>Carried to Summary</u>			R	
<u>SECTION NO 2</u>				
<u>BILL NO 1</u>				
<u>ALTERATIONS</u>				
EVOLVE QUANTITY SURVEYORS				
BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Allow for making good in all trades to existing work where damaged or disturbed through alterations with all necessary new materials to match and leave complete and perfect in every respect.		Item		
B	Allow for watering areas of the works with a jet spray sufficiently or dust cover sheets to prevent any nuisance from dust during alterations.		Item		
C	Give all notices to the Municipality and/or other Authorities and pay all charges legally payable and include for the removal or alteration or disconnection of electrical wires or cables, telephone wires and poles which may be met with, after consultation with the Architect who will indicate which services can be disconnected.		Item		
<u>SUPPORTING EXISTING STRUCTURE</u>					
D	Allow for strutting as necessary, any portion of the work including existing walls, etc, where openings are created in existing walls; all to ensure the stability of the surrounding structure and building in general, with suitable and substantial timber and other materials for doing so to the approval of the Engineer and remove on completion		Item		
<u>TEMPORARY BARRIERS, SCREENS, ETC</u>					
<u>Temporary barriers, screens, etc, including removal</u>					
E	Drywall dust screens/barriers 2 200mm high constructed of galvanised steel channel section rails and studs and covered on both sides with 12,7mm gypsum plasterboard and finished with two coats interior quality PVA emulsion paint, including corners, ends, etc	m	31		
F	Ditto, but 2 400mm high	m	38		
G	Ditto, but 3 050mm high	m	5		
H	Extra over for hollow core single door 813 x 2 032mm high, including steel frame, two-lever mortice lock, primer and two coats paint	No	4		
J	Extra over for hollow core double door 1 500 x 2 032mm high, including steel frame, two-lever mortice lock, primer and two coats paint	No	4		
<u>Carried to Summary</u>				R	
<u>SECTION NO 2</u>					
<u>BILL NO 1</u>					
<u>ALTERATIONS</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

<u>REMOVAL OF EXISTING WORK</u>					
	<u>Breaking down, removing and carting away brickwork, etc.</u>				
A	Demolish 220mm walls	m2	12		
	<u>Hacking off, removing and carting away floor/wall finishes including all adhesives and preparing concrete or brick surfaces for new finishes</u>				
B	Remove 600 x 600mm large format slate floor tiles and scabble existing floor for new floor finish	m2	90		
C	Chip off loose paint from existing walls and prepare surface for new paint	m2	395		
D	Chip off loose paint from existing columns and prepare surface for new paint	m2	32		
E	Remove existing wall tiles and adhesives and prepare existing surface to receive new wall finish	m2	68		
F	Remove existing wall paper and adhesives from existing walls and prepare existing surfaces to receive new wall paper	m2	33		
G	Remove existing wall tiles and adhesives from walls to be demolished (demolition measured elsewhere)	m2	24		
H	100mm High slate tile skirting from walls	m	245		
J	Remove timber skirting from walls	m	5		
K	Take down stainless steel corner protectors 2 200mm high	No	3		
L	Ditto, but 2 400mm high	No	14		
	<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc and preparing screeds for new floor finish</u>				
M	Remove carpet tile floor coverings including adhesives and scabble existing floor for new floor finish	m2	259		
<u>Carried to Summary</u>				R	
<u>SECTION NO 2</u>					
<u>BILL NO 1</u>					
<u>ALTERATIONS</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Taking down and removing roofs, ceilings, bulkheads, dry wall partitioning, etc including carting away and dumping on a site located by the Contractor</u>				
A	Timber slatted suspended ceiling with MDF backing, complete including timber/steel support grid, cornices, etc.	m2	88		
B	Plasterboard suspended ceiling, complete including timber/steel support grid, cornices, etc.	m2	165		
C	Plasterboard bulkhead 200mm high including steel bulkhead supports	m	7		
D	Ditto, but 650mm high	m	25		
E	Drywall partitions approximately 2 400mm high including all frames, grids, supports, fittings, etc	m	49		
F	Drywall partitions approximately 3 050mm high including all frames, grids, supports, fittings, etc	m	4		
G	Drywall partitions approximately 3 950mm high including all frames, grids, supports, fittings, etc	m	3		
H	Toilet cubicle partitioning made of 20mm thick vitreous enamelled steel sheet faced particle board bonded panels, approximately 2 100mm high including all frames, stiles, grids, supports, fittings, etc	m	14		
J	Aluminium framed enclosure partitions approximately 2 400mm high overall, with two fixed panes with glazing to the top pane approximately 1 600mm high and bottom pane fitted with solid timber boarding approximately 800mm high including all frames, grids, supports, fittings, etc	m	8		
	<u>Taking out and removing doors, windows, etc including frames, thresholds, ironmongery, sills, etc from brickwork</u>				
K	Timber single door and steel frame 813 x 2 032mm high overall	No	2		
L	Strong room door and frame, approximate size 1 100mm x 2 100mm high	No	1		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 2</u>				
	<u>BILL NO 1</u>				
	<u>ALTERATIONS</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Aluminium framed trellis sliding door, overall size 3 000mm x 2 200mm high including sliding track and frame	No	1	
B	Glazed timber double shopfront door and frame, size 1 600 x 2 200mm high overall including glazing	No	1	
C	Glazed timber double shopfront door and frame, size 1 700 x 2 200mm high overall including glazing	No	1	
D	Aluminium double sliding door size 1 850 x 2 200mm high overall including glazing	No	1	
E	Aluminium framed single shopfront door, overall size 1 000 x 2 400mm high with two fixed panes with glazing to the top pane approximately 1 000 x 1 600mm high and bottom pane fitted with solid timber boarding approximately 1 000 x 800mm high including all frames, ironmongery, etc.	No	1	
F	Glazed aluminium shopfronts including glazing and frame exceeding 7.50m ² and not exceeding 10m ²	No	2	
G	Glazed aluminium shopfronts including doors, glazing and frame exceeding 7.50m ² and not exceeding 10m ²	No	1	
H	Glazed aluminium shopfronts including doors, glazing and frame exceeding 10m ² and not exceeding 12.5m ²	No	1	
J	Glazed aluminium shopfronts including stacking doors, glazing and frame exceeding 10m ² and not exceeding 12.50m ²	No	1	
	<u>Taking out and removing doors, windows, etc including frames, thresholds, ironmongery, sills, etc from drywall partitions</u>			
K	Timber single door and aluminium frame 813 x 2 032mm high overall	No	4	
L	Timber single door and aluminium frame 900 x 2 200mm high overall	No	2	
M	Timber single door and aluminium frame 900 x 2 400mm high overall	No	5	
<u>Carried to Summary</u>				
SECTION NO 2 BILL NO 1 ALTERATIONS EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Timber double door and solid hardwood timber frame 1 700 x 2 400mm high overall	No	3		
B	Aluminium window with two sliding glass panes overall size 1 800 x 1 200mm high including glazing	No	1		
C	Aluminium window with two sliding glass panes overall size 1 200 x 1 500mm high including glazing	No	1		
D	Aluminium window with one fixed glass pane overall size 1 500 x 1 500mm high including glazing	No	1		
E	Glazed aluminium shopfronts including glazing and frame not exceeding 5m ²	No	3		
F	Glazed aluminium shopfronts including glazing and frame exceeding 7.50m ² and not exceeding 10m ²	No	3		
	<u>Taking out and removing doors, windows, etc including frames, thresholds, ironmongery, sills, etc from toilet cubicle partitions</u>				
G	Toilet cubicle single door and frame 762 x 2 100mm high overall	No	6		
H	Toilet cubicle single door and frame 813 x 2 100mm high overall	No	1		
	<u>Taking out and removing doors, etc, setting aside/stockpiling on site for re-use and later refixing in similar or new position</u>				
J	Timber single door from timber frame 813 x 2 032mm high overall	No	1		
K	Timber single door from timber frame 900 x 2 400mm high overall	No	6		
	<u>Taking out and removing ironmongery</u>				
L	Mortice lockset from timber door	No	4		
M	WC indicator bolt lockset from timber door	No	3		
N	Door pull handle from timber door	No	8		
P	Hat and coat hook from timber door	No	5		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 2</u>				
	<u>BILL NO 1</u>				
	<u>ALTERATIONS</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Emblem/nameplate size 150 x 150mm high approximately for toilets with male, female or disabled sign from timber door	No	5		
B	Louvre unit, 750mm x 150mm high approximately from timber door	No	6		
C	Pushplate, 800mm x 150mm high approximately from timber door	No	4		
D	Kickplate, 900mm x 300mm high approximately from timber door	No	6		
E	Door closer from timber door and frame	No	5		
F	Grab rail not exceeding 1 000mm long from wall	No	3		
G	Toilet paper roll holder from wall	No	10		
H	Paper towel dispenser from wall	No	5		
J	Automatic hand dryer from wall	No	3		
K	Paper towel disposal bin from wall	No	5		
L	Soap dispenser from wall	No	5		
M	Urinal divider screen from wall	No	1		
	<u>Taking out and removing sundry metal work, fittings, etc</u>				
N	48 Diameter x 5.34mm Thick steel bumper rails welded to base plates which are bolted down by chemical anchor bolts	m	6		
P	Strong room ventilation grille and frame, approximate size 300mm x 300mm high	No	2		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings, and making good floor and wall finishes</u>				
Q	Stainless steel single bowl sink	No	1		
R	Stainless steel double bowl sink	No	1		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 2</u>				
	<u>BILL NO 1</u>				
	<u>ALTERATIONS</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Vitreous china wall hung urinals with flush valves and flush pipes including wastes, traps, taps, etc.	No	2		
B	Vitreous china wall hung wash hand basin including wastes, traps, taps, etc.	No	8		
C	Vitreous china water closet pan with concealed cistern and flush pipe	No	10		
	<u>Taking out/off and removing glass and mirrors</u>				
D	Mirror 600 x 1 000mm high from wall including making good wall where mirror was removed	No	2		
E	Mirror 2 000 x 1 300mm high from wall including making good wall where mirror was removed	No	1		
F	Mirror 600 x 1 400mm high from wall including making good wall where mirror was removed	No	1		
G	Mirror 2 080 x 1 400mm high from wall including making good wall where mirror was removed	No	1		
H	Mirror 2 630 x 1 400mm high from wall including making good wall where mirror was removed	No	1		
	<u>BUILDING UP OPENINGS</u>				
	<u>Brickwork in class II mortar in building up openings</u>				
J	280mm Brick cavitywall	m2	3		
	<u>Sundries</u>				
K	Cutting toothings and bonding new 280mm cavity brickwork to existing brickwork	m2	1		
	<u>MAKING GOOD OF FINISHES, ETC</u>				
	<u>Making good internal cement plaster</u>				
L	Where 220mm brickwalls removed	m	6		
M	Where 270mm brick cavitywalls removed	m	10		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 2</u>				
	<u>BILL NO 1</u>				
	<u>ALTERATIONS</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

[illegible]

<u>SECTION NO 2</u>				
<u>BILL NO 1</u>				
<u>ALTERATIONS</u>				
<u>SUMMARY</u>				
Total of Page No.		<u>Page No</u>		<u>Amount</u>
		137		
		138		
		139		
		140		
		141		
		142		
		143		
		144		
		145		
CARRIED TO SUMMARY OF SECTION NO 2	R			
<u>SECTION NO 2</u>				
<u>BILL NO 1</u>				
<u>ALTERATIONS</u>				
EVOLE QUANTITY SURVEYORS				
BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>				
<u>BILL NO 2</u>				
<u>WATERPROOFING</u>				
<u>NOTE</u>				
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.				

<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Waterproofing</u>				
Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>				
<u>Approved polyurethane joint sealant dressed into joint, including protecting adjoining surfaces with masking tape</u>				
A	5 x 5mm Sealer in joint between floor and wall tiles or skirting tiles	m	214	
<u>Movement joint of Jointex or equivalent and approved closed cell expanded polyethylene pre-formed expansion joint filler including "Polycord" and necessary blocking piece for tearing out later including required formwork</u>				
B	10mm Thick Jointex or equivalent and approved not exceeding 300mm wide vertically between brickwork and concrete columns/walls	m	4	
<u>Carried to Summary</u>				R
<u>SECTION NO 2</u>				
<u>BILL NO 2</u>				
<u>WATERPROOFING</u>				
EVOLVE QUANTITY SURVEYORS				
BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	<u>Sikaflex Pro 2HP or equivalent and approved polyurathane joint sealant dressed into joint, including cleaning an priming both sides with Sikaflex primer - 3 strip or equivalent and approved product all in accordance with manufacturer's instructions</u> 10mm Wide x 10mm deep dressed in movement joints between concrete column and brickwork	m	8		
	<u>Carried to Summary</u> <u>SECTION NO 2</u> <u>BILL NO 2</u> <u>WATERPROOFING</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			R	

<u>SECTION NO 2</u>			
<u>BILL NO 2</u>			
<u>WATERPROOFING</u>			
<u>SUMMARY</u>			
Total of Page No.		Page No 147 148	Amount
CARRIED TO SUMMARY OF SECTION NO 2			R
<u>SECTION NO 2</u>			
<u>BILL NO 2</u>			
<u>WATERPROOFING</u>			
EVOLVE QUANTITY SURVEYORS			
BILLS OF QUANTITIES			

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

DOORS, ETC

Reinstatement of existing timber doors from stockpile on site

Solid core flush doors with 3mm tempered hardboard to both faces with two concealed hardwood edges and 100% solid timber core from stockpile on site, hung to existing timber frames

A	40mm Door size 813 x 2 032mm high	No	1
---	-----------------------------------	----	---

B	40mm Door size 900 x 2 400mm high with one 750 x 150mm framed opening for air grille (louvre unit measured elsewhere)	No	6
---	---	----	---

Supply and installation of new timber doors

Solid core flush doors with 3mm tempered hardboard to both faces with two concealed hardwood edges and 100% solid timber core, hung to timber frames

C	40mm Door size 915 x 2 134mm high	No	1
---	-----------------------------------	----	---

FRAMED FRAMES, ETC.

"Swartland" or equivalent and approved wrought meranti frames

D	50 x 75mm Rebated frames	m	28
---	--------------------------	---	----

FLOORS

Making good existing timber floors/skirtings and sub-structure by sanding and resealing existing timber including taking out where necessary, sanding, sealing and reinstatement of timber floor where necessary to

E	Timber floors	m2	123
---	---------------	----	-----

F	Timber skirtings	m	60
---	------------------	---	----

Carried to Summary

R

SECTION NO 2

BILL NO 3

CARPENTRY AND JOINERY

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

CUPBOARDS TO KITCHENS, BEDROOMS, ETC

SUPPLEMENTARY PREAMBLES

General

The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc Prices are to include for all necessary filler pieces against walls etc

Worktops, Floor Cupboards, Wall Cupboards, etc

Kitchenette cupboards, desks, etc. complete as per Architect's specifications and drawings, including all necessary ironmongery to be approved by the Architect (Refer to architect drawing no. A501)

- A Kitchen floor cupboard unit, 2 000mm long x 730mm wide x 900mm high made up of 16mm melamine faced particle board carcass (colour: white) and 16mm PG Bison or equivalent and approved "Supamatt" boards with matte finish to the fronts of the unit (colour: TBC) with 16mm melamine adjustable shelving inside floor cupboard unit and 2mm impact edging all round, unit to be placed on top of surface bed, including 150mm high powder coated aluminium kick plate (colour: TBC) to the bottom of the cupboard, with opening suitable for one stainless steel double bowl sink unit (sink measured elsewhere) including all necessary framing to the sides, back, bottom and base and including drawers with full extension soft close runners, handless finger pull grooves with push to open mechanism and including cupboard doors with soft close concealed hinges and handless finger pull grooves with push to open, installed complete with all necessary fixing, cleats, strips and studs, etc. all as per Architects specification (Refer to Architect Drawing no. A501)

No

1

Carried to Summary

R

SECTION NO 2

BILL NO 3

CARPENTRY AND JOINERY

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Wall mounted floating open shelving system, 2 000mm long x 400mm deep x 800mm high, carcass of 25mm thick PG Bison or equivalent and approved "Supamatt" boards with matte finish (colour: TBC) with 2mm impact edging all round. Unit consists of two shelves and one vertical divider, installed complete with all necessary fixing, cleats, strips and studs, etc. all as per Architects specification (Refer to Architect Drawing no. A501)	No	1		
B	U-shaped kitchen floor cupboard unit, 5 750mm long x 600mm wide x 900mm high made up of 16mm melamine faced particle board carcass (colour: white) and 16mm PG Bison or equivalent and approved "Supamatt" boards with matte finish to the fronts of the unit (colour: TBC) with 16mm melamine adjustable shelving inside floor cupboard unit and 2mm impact edging all round, unit to be placed on top of surface bed, including 150mm high powder coated aluminium kick plate (colour: TBC) to the bottom of the cupboard, with opening suitable for one stainless steel double bowl sink unit (sink measured elsewhere) including all necessary framing to the sides, back, bottom and base and including drawers with full extension soft close runners, handleless finger pull grooves with push to open mechanism and including cupboard doors with soft close concealed hinges and handleless finger pull grooves with push to open, installed complete with all necessary fixing, cleats, strips and studs, etc. all as per Architects specification (Refer to Architect Drawing no. A501)	No	1		
C	U-shaped wall mounted floating open shelving system, 5 750mm long x 400mm deep x 800mm high, carcass of 25mm thick PG Bison or equivalent and approved "Supamatt" boards with matte finish (colour: TBC) with 2mm impact edging all round. Unit consists of six shelves and three vertical dividers, installed complete with all necessary fixing, cleats, strips and studs, etc. all as per Architects specification (Refer to Architect Drawing no. A501)	No	1		
D	Stationary + printers desk, 6 050mm long x 600mm wide x 750mm high made up of 16mm PG Bison or equivalent and approved "Supamatt" board with matte finish (colour: TBC) including 2mm impact edging all round and including all necessary framing to the sides, back, bottom and base, installed complete with all necessary support legs, brackets, fixing, cleats, strips and studs, etc. all as per Architects specification (Refer to Architect Drawing no. A501)	No	1		
<u>Carried to Summary</u>					R
SECTION NO 2					
BILL NO 3					
CARPENTRY AND JOINERY					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

-154-

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

Suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations

Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)

All suspended ceilings to be Saint Gobain Gyproc or equivalent and approved galvanized steel suspension ceiling grid system.

Ceiling grids to consist of Gyproc or equivalent and approved 25 x 25mm Wall angle fixed to the perimeter wall using fixings at 300mm centres. Gyproc or equivalent and approved 38 x 38mm Main Tees at 1 200mm centres, Suspend main tees using Gyproc or equivalent and approved pre-stretched galvanised Hanger wire 5mm thick or Gyproc or equivalent and approved galvanised rods 5mm thick at 1 200mm centres. The hanger wire shall be put through the main tees hole and would wind 3 times around itself. 2 Steel pop-rivets or one Gyproc or equivalent and approved Wafer Head Tek screw 13mm shall be used to fix the hanger strap to the main tees web. Install Gyproc or equivalent and approved Cross Tees 38 x 25mm (1 200mm long) at 600mm centres to create a 1200 x 600mm ceiling grid. Main tees should be fixed to the wall using angle cleats.

Carried to Summary

SECTION NO 2

BILL NO 4

CEILINGS, PARTITIONS, ACCESS FLOORING

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

CEILINGS, CORNICES, ETC

SUSPENDED CEILINGS

DESCRIPTIONS

All suspended ceilings to be Saint Gobain Gyproc or equivalent and approved galvanized steel suspension ceiling grid system, fixed to concrete soffits using hanger brackets and 6mm expansion anchors at 1 200mm centres or to steel purlins (on approximately 1,7m centres) and to ceiling tees at 1 200mm centres, Gyproc or equivalent and approved 38 x 38mm galvanised steel main tee sections at 1 200mm centres with cut tee sections in between. The suspended framework strengthened as necessary to create a rigid ceiling platform all in strict accordance to the manufacturer's specification.

22mm thick OWAcoustic Ideatec Ideawood (timber colour: lacquered) or equivalent and approved timber slatted ceiling panels with MDF backing board (backing board colour: black), size 2 430 x 140mm, on OWAconstruct S3 white galvanised mild steel exposed demountable T24 or equivalent and approved tee suspension system, including OWAconstruct or equivalent and approved main and cross tees with main tees to be suspended by means of galvanised hangers at centres not exceeding 1 200mm, hangers to be made up of 2.5mm thick galvanised wire and to be bracketed and shot into concrete soffits or fixed purlins as per manufacturer's instructions

A Ceilings suspended not exceeding 1m below soffit of concrete slabs

m2

88

12.5mm "Saint-Gobain Gyproc" or equivalent and approved tapered edge plasterboard board ceiling flush jointed (Gyproc or equivalent and approved fibreglass mesh taped joints skimmed and painted) on Gyproc or equivalent and approved galvanized steel suspension ceiling grid system fixed at 300mm centers in the field of the boards with Gyproc or equivalent and approved jointing compound in joints and minimum 5mm thick smooth Gypsum Cretestone or equivalent and approved skim plaster finish to a smooth polish surface

B Ceilings suspended not exceeding 1m below soffit of concrete slabs

m2

164

Carried to Summary

R

SECTION NO 2

BILL NO 4

CEILINGS, PARTITIONS, ACCESS FLOORING

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Sundries</u>				
A	Standard Saint Gobain or equivalent and approved trap door/access panel size 600mm x 600mm (Provisional)	No	9		
	<u>Cornices to ceilings</u>				
B	Gyproc or equivalent and approved SM25 aluminium profile recessed wall angle pre painted shadowline cornice plugged	m	276		
C	12.5mm Plaster trim	m	40		
	<u>Openings (Provisional)</u>				
D	Extra over skimmed plasterboard ceilings for 275mm diameter openings for light fittings including extra hangers and support tee's etc.	No	16		
E	Extra over skimmed plasterboard ceilings for 150mm diameter openings for ventilation grilles including extra hangers and support tee's etc.	No	1		
F	Extra over skimmed plasterboard ceilings for 200mm diameter openings for ventilation grilles including extra hangers and support tee's etc.	No	4		
G	Extra over skimmed plasterboard ceilings for 400 x 400mm duct for four way cassette AC unit including extra hangers and support tee's etc.	No	6		
H	Extra over skimmed plasterboard ceilings for 1 200 x 600mm recessed light fittings including extra hangers and support tee's etc.	No	32		
J	Extra over timber slatted ceilings for 275mm diameter openings for light fittings including extra hangers and support tee's etc.	No	11		
K	Extra over timber slatted ceilings for 150mm diameter openings for ventilation grilles including extra hangers and support tee's etc.	No	10		
L	Extra over timber slatted ceilings for 200mm diameter openings for ventilation grilles including extra hangers and support tee's etc.	No	4		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 2</u>				
	<u>BILL NO 4</u>				
	<u>CEILINGS, PARTITIONS, ACCESS FLOORING</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Extra over timber slatted ceilings for 400 x 400mm duct for four way cassette AC unit including extra hangers and support tee's etc.	No	13		
B	Extra over timber slatted ceilings for 1 200 x 600mm recessed light fittings including extra hangers and support tee's etc.	No	57		
	<u>Carried to Summary</u> <u>SECTION NO 2</u> <u>BILL NO 4</u> <u>CEILINGS, PARTITIONS, ACCESS FLOORING</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

BULKHEADS, ETC

SUPPLEMENTARY PREAMBLES

All suspended bulkheads to be made up of Gypframe T37K or equivalent and approved concealed ceiling grid or equivalent approved.

The grid is to be made up as follows -
12.5mm/9mm/6.4mm Gyproc or equivalent and approved Rhinoboard fixed to Gypframe T32K or equivalent and approved cross tee using Gyproc or equivalent and approved sharp point screws 25mm at max 150mm centres. Gypframe T37K or equivalent and approved main tee to be installed at 1 200mm centres and suspended using Gyproc or equivalent and approved galvanised angle 25 x 25mm hangers at 1 200mm centres, fixed to steel purlins and main tees using Gyproc or equivalent and approved wafer head tek screws. Gypframe T32K or equivalent and approved cross tees installed at 400mm centres. Hangers to be maximum of 400mm from the perimeter wall. Apply Gyproc or equivalent and approved RhinoTape to all joints. Cover Gyproc or equivalent and approved RhinoTape with 1 layer of Gyproc or equivalent and approved Cretestone. Install Gypframe or equivalent and approved corner bead to all external corners

Bulkheads shall comprise galvanised steel studding of 63.5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard or magnaboard as described screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer

Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc

Carried to Summary

SECTION NO. 2

BILL NO. 4

CEILINGS, PARTITIONS, ACCESS FLOORING

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Flush suspended bulkheads</u>				
A	Skimmed plastered bulkhead, 200mm high vertical shaped bulkhead formed of 12.5mm thick Gyproc Rhinoboard or equivalent approved panels with butt joints covered with patent fibatape and skimmed flush; corners covered with 25 x 25 x 1.6mm aluminium, screwed through to studs of pressed galvanised mild steel 63.5mm wide and including bracing of studs, channels, angles, all necessary supports, etc. complete as recommended by the manufacturer	m	15		
B	Skimmed plastered bulkhead, 650mm high vertical shaped bulkhead formed of 12.5mm thick Gyproc Rhinoboard or equivalent approved panels with butt joints covered with patent fibatape and skimmed flush; corners covered with 25 x 25 x 1.6mm aluminium, screwed through to studs of pressed galvanised mild steel 63.5mm wide and including bracing of studs, channels, angles, all necessary supports, etc. complete as recommended by the manufacturer	m	25		
	<u>CUBICLE PARTITIONING SYSTEM</u>				
	<u>"Vitrex" or equivalent and approved, toilet partitioning with 20mm thick vitreous enamelled steel sheet faced particle board bonded panels and power coated aluminium edging and top rails including fixing components and standard ironmongery comprising indicator bolts, hinges, handles, locks, coat hooks, toilet roller holders, etc</u>				
C	Partition, size 1 640mm wide x 2 100mm high complete with vertical joint	No	1		
D	Partition, size 1 750mm wide x 2 100mm high complete with vertical joint	No	3		
E	Partition, size 1 880mm wide x 2 100mm high complete with vertical joint	No	1		
F	Partition, size 1 970mm wide x 2 100mm high complete with vertical joint	No	1		
G	End Stiles 150mm wide x 2 100mm high complete with double telescopic stainless steel leg anchors in a standard arrangement	No	4		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 2</u>				
	<u>BILL NO 4</u>				
	<u>CEILINGS, PARTITIONS, ACCESS FLOORING</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Wall Stiles 115mm wide x 2 100mm high complete with single telescopic stainless steel leg anchor in a standard arrangement	No	8		
B	Doors size 762mm wide x 2 100mm high (Including top rail) and standard ironmongery (double indicator bolt and keep, coat hook, door butt hinges etc.)	No	6		
C	Doors size 813mm wide x 2 100mm high (Including top rail) and standard ironmongery (double indicator bolt and keep, coat hook, door butt hinges etc.)	No	1		
<u>FIXED PARTITIONS, ETC</u>					
<u>90mm Thick skimmed drywall partitions with 12,5mm thick board cladding on both sides and filled in with 25mm thick glasswool insulation in blanket form with a density of not less than 32kg/m², including gypsum skim plaster, tracks, rails, studs, etc</u>					
D	Partitions 850mm high with bottom track fixed to top of aluminium shopfront frame and top track fixed to suspended ceiling tees	m	3		
E	Extra over partition 850mm high for vertical abutment	No	2		
F	Extra over partition 850mm high for corner	No	1		
G	Partitions 1 750mm high with bottom track fixed to top of aluminium shopfront frame and top track fixed to suspended ceiling tees	m	4		
H	Extra over partition 1 750mm high for vertical abutment	No	1		
J	Extra over partition 1 750mm high for fair end	No	1		
K	Partitions 2 200mm high with bottom track plugged and fixed to concrete floors and top track fixed to suspended ceiling tees	m	4		
L	Extra over partition 2 200mm high for vertical abutment	No	6		
M	Partitions 2 400mm high with bottom track plugged and fixed to concrete floors and top track fixed to suspended ceiling tees	m	5		
<u>Carried to Summary</u>				R	
<u>SECTION NO 2</u>					
<u>BILL NO 4</u>					
<u>CEILINGS, PARTITIONS, ACCESS FLOORING</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Extra over partition 2 400mm high for vertical abutment <u>Extra over 90mm Thick skimmed drywall partitions with 12,5mm thick board cladding on both sides for powder coated (colour: satin black) aluminium shopfronts complete with subframes, butt joints, ironmongery, safety glass, sealing, etc , installed complete including additional studding, trimming, etc to drywall partitions</u>	No	4	
B	Single aluminium door and frame, size 900 x 2 200mm high overall, with 100mm wide aluminium top rail, stiles and bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges for aluminium door frame, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortice lock set, one pair Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock and one Dora "DS77" or equivalent and approved floor or wall mounted door stop, complete (Type D02)	No	2	
	<u>Carried to Summary</u>			R
	<u>SECTION NO 2</u>			
	<u>BILL NO 4</u>			
	<u>CEILINGS, PARTITIONS, ACCESS FLOORING</u>			
	EVOLVE QUANTITY SURVEYORS			
	BILLS OF QUANTITIES			

[illegible]

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>			
<u>BILL NO 5</u>			
<u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u>			
<u>NOTE</u>			
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.			

<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Fixing</u>			
Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc			
<u>Surface preparation, priming, curing, cleaning etc</u>			
Descriptions of the items below are deemed to include all necessary preparation, priming, mixing, curing, cleaning etc as prescribed by the manufacturers of the various products			
<u>Shop Drawings, Site Measurement and Samples</u>			
The contractor shall prepare and apply at his own expense two sets of design and shop drawings and details of all fabricated work for approval, and no work shall be undertaken by the contractor until such approval has been obtained.			
Before undertaking any manufacture, delivery or work on site, measurements shall be checked on site.			
Samples of work may be asked by the Principal Agent for approval of workmanship, material types, etc., tenderers are to allow for this in their tendered amounts.			
<u>Carried to Summary</u>			
<u>SECTION NO 2</u>			
<u>BILL NO 5</u>			
<u>FLOOR COVERING, WALL LINING, ETC</u>			
EVOLVE QUANTITY SURVEYORS			
BILLS OF QUANTITIES			
		R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

CARPETING

500 x 500 x 5.0mm Belgotex "Accelerate Pivot" or equivalent and approved tufted multi-scroll loop pile carpet tile, with NexBac or equivalent and approved bitumen backing, including all necessary adhesives and laid in accordance with the manufacturer's instruction

A	On floors	m2	245
---	-----------	----	-----

SKIRTINGS, NOSINGS, ETC

Sundries

B	"Kirk Marketing" or equivalent and approved 12mm aluminium straight edge trim (code: ASE120.BL) between carpet tiles and slate tiles, with matching base	m	33
---	--	---	----

Carried to Summary

SECTION NO 2

BILL NO 5

FLOOR COVERING, WALL LINING, ETC

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

SECTION NO 2

BILL NO 5

FLOOR COVERING, WALL LINING, ETC

SUMMARY

Total of Page No.

Page
No

166

167

Amount

CARRIED TO SUMMARY OF SECTION NO 2

R

SECTION NO 2

BILL NO 5

FLOOR COVERING, WALL LINING, ETC

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Finishes to ironmongery

Where applicable finishes to ironmongery are indicated
by suffixes in accordance with the following list:

BS Satin bronze lacquered
CH Chromium plated
SC Satin chromium plated
SE Silver enamelled
GE Grey enamelled
AN Anodised natural
AS Anodised silver
AB Anodised bronze
AG Anodised gold
ABL Anodised black
PB Polished brass
PL Polished and lacquered
PT Epoxy coated
SD Sanded

Carried to Summary

SECTION NO 2

BILL NO 6

IRONMONGERY

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

HINGES, BOLTS, ETC

"DORA" or equivalent and approved

A	"7320" Stainless steel heavy duty butt hinges suitable for timber frames	No	24
---	--	----	----

LOCKS

"Ironmongery Warehouse" or equivalent and approved

B	"IW2031" Ironware WC dead lock with 8mm follower	No	3
---	--	----	---

"DORA" or equivalent and approved

C	"XS 4A" Euro profile escape function cylinder mortice lockset	No	5
---	---	----	---

HANDLES

"DORA" or equivalent and approved

D	"OGRO 8111" Lever pull handle for euro profile lock	No	10
---	---	----	----

DOOR CLOSERS

"DORA" or equivalent and approved

E	"TS 73 EMF" Surface mounted door closer with slide channel	No	8
---	--	----	---

LETTERS, NAMEPLATES, ETC

3mm Thick natural anodised aluminium nameplates with 36pt micro gramma bolt extended typeface lettering engraved in black

F	Union (code: AL5021) or equivalent and approved emblem/nameplate size 150 x 150mm high for toilets with male, female or paraplegic sign	No	5
---	---	----	---

1.2mm Thick grade 304 polished stainless steel epoxy glued and screwed with countersunk stainless steel screws

G	Kick plate size 900 x 300mm high	No	7
---	----------------------------------	----	---

Carried to Summary

R

SECTION NO 2

BILL NO 6

IRONMONGERY

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Push plate size 800 x 150mm high	No	6		
	<u>SUNDRIES</u>				
	<u>"DORA" or equivalent and approved</u>				
B	"DS77" Floor or wall mounted door stop	No	8		
	<u>"Ironmongery Warehouse" or equivalent and approved</u>				
C	"IW1926" Ironware WC indicator set	No	3		
D	"IW5034" Ironware door hook and buffer	No	6		
	<u>BATHROOM FITTINGS</u>				
	<u>"Lecico" or equivalent and approved</u>				
E	Vitreous china urinal separator partition (code: ATLURISEP0630UE), size 150mm wide x 320mm deep x 630mm high, including fixation set and fixing to brick walls with necessary plugs and installation screws as per the manufacturers specifications, complete	No	1		
	<u>"Franke" or equivalent and approved</u>				
F	"Stratos STRX672" Grade 304 1,2/1,5mm thick 18/10 satin stainless steel double toilet paper roll holder (code: 359716), size 304 x 156 x 140mm, plugged and screwed to wall with stainless steel screws, complete	No	10		
G	"Stratos STRX618" Grade 304 1,2/1,5mm thick 18/10 satin stainless steel soap dispenser (code: 359705), size 304 x 100 x 134mm deep, plugged and screwed to wall with stainless steel screws, complete	No	8		
H	"Chronos BS600P" Grade 304 1,2/1,5mm thick 18/10 satin stainless steel paper towel dispenser (code: 359790), size 438 x 290 x 115mm, plugged and screwed to wall with stainless steel screws, complete	No	2		
J	Rodan "RODX605" wall mounted brushed stainless steel waste paper bin 355 x 460 x 168mm (Code: 2000090061)	No	5		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO. 2</u>				
	<u>BILL NO. 6</u>				
	<u>IRONMONGERY</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

A	18/10 stainless steel grab rail 750 x 260mm wide (code: 2510012) including cover plates and fixing to walls with mounting bolts as supplied, complete	No	3		
	<u>"Dyson" or equivalent and approved</u>				
B	"Airblade V" Wall mounted stainless steel hand dryer overall size 100 x 234 x 394mm high with and including ABS plastic casing, Hepa filter and sensor operation system, plugged and screwed to wall with stainless steel screws, complete	No	3		
	<u>Carried to Summary</u> <u>SECTION NO 2</u> <u>BILL NO 6</u> <u>IRONMONGERY</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES			R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

SECTION NO 2

BILL NO 6

IRONMONGERY

SUMMARY

Total of Page No.

Page
No

169

170

171

172

173

Amount

CARRIED TO SUMMARY OF SECTION NO 2

R

SECTION NO 2

BILL NO 6

IRONMONGERY

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process

4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked

5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years

Descriptions of aluminium doors, windows and shopfronts shall be deemed to include all necessary sealing at reveals with approved silicone sealant, as may be required

GALVANISED MILD STEEL

Galvanised mild steel balustrades, installed in accordance to the manufacturers instructions, including fixing, bolts, etc, complete

A	1 000mm high overall galvanised mild steel balustrades consisting of 50mm diameter x 4mm thick galvanised mild steel vertical balusters at approximately 900mm c/c with holes to be pre drilled at 300mm c/c maximum, 50mm diameter x 4mm thick galvanised mild steel continuous hand rail to top of balusters and 38mm diameter x 4mm thick galvanised mild steel horizontal rails at 300mm c/c maximum to fit into pre drilled holes, all welded together and epoxy fixed into concrete floor with chemical anchor bolts including galvanised mild steel fixing plate and galvanised mild steel escutcheon, complete	m	9
B	Extra over for 90 degree bend	No	1

Carried to Summary

R

SECTION NO 2

BILL NO 7

METALWORK

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

**STAINLESS STEEL AND ALUMINIUM CORNER
PROTECTION**

Corner protectors

A	30 x 30 "Kirk Marketing" (grade 316) or equivalent and approved tile-in corner protectors STICP 300 round corner, to vertical corners, 2 200mm high, nailed on both sides	No	3
B	Ditto, but 2 400mm high	No	14
C	"Kirk Marketing" or equivalent and approved 12mm aluminium vertical square edge trim, plugged (code: ASQE120.BL)	m	26
D	"Kirk Marketing" or equivalent and approved 12mm aluminium horizontal straight edge trim (code: ASE120.BL)	m	16

ALUMINIUM WINDOWS, DOORS, ETC

INTERNAL SHOPFRONTS

"Wispeco" or equivalent and approved powder coated aluminium framed beaded shopfronts (Colour: satin black) with rubber gaskets or square glazing beads, transoms, mullions, 8mm clear toughened glass and privacy film, continuous rubber/brush seals and stainless steel pivot-out stays and levers including ironmongery, waterproofing angles and membranes and fixing and fitting to partitions, brickwork, concrete or steel as per manufactures specifications (Refer to architects drawing no. A501)

E	Purpose made shopfront, overall size 4 120 x 1 400mm high with three fixed panels	No	1
F	Purpose made shopfront, overall size 4 300 x 1 400mm high with four fixed panels	No	1
G	Purpose made shopfront, overall size 1 100 x 2 200mm high with one fixed panel	No	1
H	Purpose made shopfront, overall size 1 460 x 2 400mm high with one fixed panel	No	1

Carried to Summary

R

SECTION NO 2

BILL NO 7

METALWORK

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Purpose made shopfront, overall size 4 300 x 2 400mm high with four fixed panels	No	1		
B	Purpose made shopfront, overall size 4 860 x 2 400mm high with four fixed panels	No	1		
<u>INTERNAL SHOPFRONTS WITH DOORS</u>					
<u>"Wispeco" or equivalent and approved powder coated aluminium framed beaded shopfronts (Colour: satin black) with rubber gaskets or square glazing beads, transoms, mullions, 8mm clear toughened glass and privacy film, continuous rubber/brush seals and stainless steel pivot-out stays and levers including ironmongery, waterproofing angles and membranes and fixing and fitting to partitions, brickwork, concrete or steel as per manufactures specifications (Refer to architects drawing no. A501)</u>					
C	Purpose made shopfront, 2 900 x 2 200mm high with three fixed panels and one single aluminium door and frame, size 900 x 2 200mm high overall, with 100mm wide aluminium top rail, stiles and bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges for aluminium door frame, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortise lock set, one pair Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock and one Dora "DS77" or equivalent and approved floor or wall mounted door stop, complete	No	1		
D	Purpose made shopfront, 3 400 x 2 400mm high with three fixed panels and one single aluminium door and frame, size 900 x 2 200mm high overall, with 100mm wide aluminium top rail, stiles and bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges for aluminium door frame, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortise lock set, one pair Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock and one Dora "DS77" or equivalent and approved floor or wall mounted door stop, complete	No	1		
<u>Carried to Summary</u>				R	
<u>SECTION NO. 2</u>					
<u>BILL NO. 7</u>					
<u>METALWORK</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Purpose made shopfront, 4 451 x 2 400mm high with four fixed panels and one single aluminium door and frame, size 900 x 2 200mm high overall, with 100mm wide aluminium top rail, stiles and bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges for aluminium door frame, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortise lock set, one pair Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock and one Dora "DS77" or equivalent and approved floor or wall mounted door stop, complete	No	1		
B	Purpose made shopfront, 5 400 x 2 400mm high with five fixed panels and one single aluminium door and frame, size 900 x 2 200mm high overall, with 100mm wide aluminium top rail, stiles and bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges for aluminium door frame, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortise lock set, one pair Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock and one Dora "DS77" or equivalent and approved floor or wall mounted door stop, complete	No	1		
C	Purpose made shopfront, 8 500 x 2 400mm high with seven fixed panels and two single aluminium doors and frame, size 900 x 2 200mm high overall, with 100mm wide aluminium top rail, stiles and bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges per door for aluminium door frame, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortise lock set per door, one pair Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock per door and one Dora "DS77" or equivalent and approved floor or wall mounted door stop per door, complete	No	1		
	<u>Carried to Summary</u>			R	
	SECTION NO 2				
	BILL NO 7				
	METALWORK				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Purpose made L-shaped shopfront, 2 350 x 2 200mm high with two fixed panels and one single aluminium door and frame, size 900 x 2 200mm high overall, with 100mm wide aluminium top rail, stiles and bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges for aluminium door frame, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortise lock set, one pair Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock and one Dora "DS77" or equivalent and approved floor or wall mounted door stop, complete	No	1	R
B	Double aluminium door and frame, size 1 650 x 2 400mm high overall, with 45mm wide aluminium top rail and stiles and 100mm wide bottom rail, glazed with 8mm clear toughened glass with frosted/privacy film including one and a half pairs Dora "7320" or equivalent and approved stainless steel heavy duty butt hinges per door leaf for aluminium door frame, one Dora "TS 93" or equivalent and approved surface mounted door closer with cam action and slide channel per door leaf, one Dora "XS 4A" or equivalent and approved euro profile cylinder mortise lock set per door leaf, two pairs Dora "OGRO 8111" or equivalent and approved sleek design lever handle for euro profile lock and one Dora "DS77" or equivalent and approved floor or wall mounted door stop per door leaf, complete (Type D03)	No	4	
	<u>ALUMINIUM LOUVRE UNITS</u> <u>Trox or equivalent and approved natural anodised fixed louvre units screwed into timber frames</u>			R
C	Standard louvre unit type AGS-T, 750 x 150mm high fixed into openings in timber doors	No	6	
<u>Carried to Summary</u> <u>SECTION NO 2</u> <u>BILL NO 7</u> <u>METALWORK</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES				

[illegible]

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>					
<u>BILL NO 8</u>					
<u>PLASTERING</u>					
<u>NOTE</u>					
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.					

<u>SCREEDS, ETC</u>					
<u>1:3 Cement screed on concrete</u>					
A	25mm Thick to concrete floors	m2	12		
<u>SELF LEVELLING SCREEDS</u>					
<u>Prepare and apply 3mm ITE F30 or equivalent and approved self levelling screeds, to be done with gauge or rolling pin for smoothest finish possible with and including ITE or equivalent and approved slurry (carpet tile measured elsewhere) to</u>					
B	Existing floors in preparation for new carpet tiles	m2	245		
<u>INTERNAL PLASTER TO EXISTING</u>					
<u>One coat cement plaster to brickwork (part on concrete) to</u>					
C	Walls	m2	134		
D	Narrow widths not exceeding 300mm wide	m2	6		
<u>One coat cement plaster to concrete to</u>					
E	Isolated and projecting columns	m2	33		
F	Sides and soffits of beams	m2	20		
<u>Carried to Summary</u>				R	
<u>SECTION NO 2</u>					
<u>BILL NO 8</u>					
<u>PLASTERING</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

INTERNAL PLASTER TO NEW

One coat cement plaster to brickwork (part on concrete)
to

A	Walls	m2	5
B	Narrow widths not exceeding 300mm wide	m2	0.3

Carried to Summary

R

SECTION NO 2

BILL NO 8

PLASTERING

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

<u>SECTION NO</u>	<u>BILL NO</u>	<u>PLASTERING</u>	<u>SUMMARY</u>	<u>Page No</u>	<u>Amount</u>
Total of Page No.				182 183	
<u>CARRIED TO SUMMARY OF SECTION NO 2</u>					R
<u>SECTION NO</u>	<u>BILL NO</u>	<u>PLASTERING</u>	EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

FLOOR TILES

SUPPLEMENTARY PREAMBLES

Tiles on surfacebeds

The existing surface must be clean, dry, firm and free of dust, loose particles or other contaminants before the Keycoat is applied.

Key the tiled areas with a slurry coat consisting of 1 part Tal or equivalent and approved Keycoat to 2 parts cement (by volume) prior to the application of the tiling adhesive.

Adhesive: Tal Goldstar 6 or equivalent and approved, mixed with TalBond or equal and approved (in lieu of water)
Joints: 3 to 10mm maximum
Grout: Tal Wall & Floor - (colour by Architect) or equal and approved

No traffic (including foot traffic) allowed within 8 hours after the new tiles have been laid and grouted.

Tiles on suspended slabs

The existing surface must be clean, dry, firm and free of dust, loose particles or other contaminants before the Keycoat is applied.

Key the tiled areas with a slurry coat consisting of 1 part Tal or equal and approved Keycoat to 2 parts cement (by volume) prior to the application of the tiling adhesive.

Adhesive: Tal Goldflex Ultra or equal and approved, mixed with TalBond or equal and approved (in lieu of water)
Joints: 3 to 10mm maximum
Grout: Tal Wall & Floor - (colour by Architect) or equal and approved

No traffic (including foot traffic) allowed within 8 hours after the new tiles have been laid and grouted.

Carried to Summary

SECTION NO 2

BILL NO 9

TILING

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>300 x 300 x 6mm "Italtile" or equivalent and approved charcoal unglazed porcelain mosaic tile sheets on prepared floors fixed with TAL Goldstar - 6HR or equivalent and approved adhesive with joints pointed in black anti-bacterial and chemical resistant epoxy grout smooth slightly concave in 3mm wide joints on</u>				
A	Floors and landings	m2	8		
	<u>600 x 600mm "Master Stone" or equivalent and approved african blue large format slate tiles on prepared floors fixed with TAL Goldstar - 6HR or equivalent and approved adhesive with joints pointed in grey anti-bacterial and chemical resistant epoxy grout smooth slightly concave in 10mm wide joints on</u>				
B	Floors and landings	m2	79		
C	Floors in patches to replace damaged tiles	m2	3		
D	Top and sides of upstand beam	m2	5		
E	Cut tile skirting 100mm high including silicone sealant between skirting and floor tile	m	85		
	<u>300 x 300 x 6mm "Italtile" or equivalent and approved charcoal unglazed porcelain mosaic tile sheets on prepared floors fixed with TAL Goldflex Ultra or equal and approved rapid set adhesive to floors with joints pointed in black anti-bacterial and chemical resistant epoxy grout smooth slightly concave in 3mm wide joints on</u>				
F	Floors and landings	m2	36		
	<u>600 x 600mm "Master Stone" or equivalent and approved african blue large format slate tiles on prepared floors fixed with TAL Goldflex Ultra or equal and approved rapid set adhesive to floors with joints pointed in grey anti-bacterial and chemical resistant epoxy grout smooth slightly concave in 10mm wide joints on</u>				
G	Floors in patches to replace damaged tiles	m2	2		
H	Cut tile skirting 100mm high including silicone sealant between skirting and floor tile	m	65		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 2</u>				
	<u>BILL NO 9</u>				
	<u>TILING</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

	MOVEMENT JOINTS			
A	5mm Wide open joint in tiling filed with and including polypropelene backing cord, treated with approved primer and TAL Goldstar Sealmaster 1000 or equivalent and approved polyurethane sealant	m	53	
B	10mm Wide open joint in tiling filed with and including polypropelene backing cord, treated with approved primer and TAL Goldstar Sealmaster 1000 or equivalent and approved polyurethane sealant	m	71	
	SUNDRIES			
C	Hammer test existing slate floor tiles for all loose and hollow tiles	m2	51	
D	Clean off and polish existing slate floor tiles of grease, oil, grime and dirt etc. by machine polishing and resealing tile afterwards	m2	51	
E	Chop out and remove all hollow sounding cracked, broken, chipped or otherwise damaged tiles clean off background adhesive and apply TAL or equivalent and approved Keycoat slurry before filling it with TAL Goldstar 6 or equivalent and approved Adhesive to prepare for new tile (new tile measured above) (provisional allowance)	m2	5	
F	Keycote consisting of 1 part TAL keycoat to 2 parts cement (by volume) to floors	m2	122	
G	"Kirk Marketing" or equivalent and approved 12mm aluminium straight edge trim (code: ASE120.BL) to edge of slate tiles, with matching base	m	25	
H	Fair cutting around WC pedestals	No	10	
	<u>Carried to Summary</u>			R
	<u>SECTION NO_2</u>			
	<u>BILL NO_9</u>			
	<u>TILING</u>			
	EVOLVE QUANTITY SURVEYORS			
	BILLS OF QUANTITIES			

<u>SECTION NO 2</u>				
<u>BILL NO 9</u>				
<u>TILING</u>				
<u>SUMMARY</u>				
Total of Page No.		Page No		Amount
		185		
		186		
		187		
		188		
		189		
CARRIED TO SUMMARY OF SECTION NO 2			R	
SECTION NO 2				
BILL NO 9				
TILING				
EVOLEVE QUANTITY SURVEYORS				
BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Copper pipes

Pipes shall be hard drawn and half-hard "Maksal" pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-siphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type or equivalent and approved. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level

General

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

All pipe diameters are internal pipe diameters

Carried to Summary

R

SECTION NO 2

BILL NO 10

PLUMBING AND DRAINAGE

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

SANITARY FITTINGS

"Franke" or equivalent and approved stainless steel
(grade 304 18/10)

- A "Nouveau NVN621" Double bowl drop in sink, size 1
160mm long x 460mm wide overall with two 340 x 370 x
149mm deep bowls, including 38mm waste fitting,
90mm PVC waste to drain waste outlet, basket waste kit
for 90mm outlets and Spazio F/1 plumbing kit (code:
301152), accordance with the manufacturer's
instructions, complete

No

2

"Duravit" or equivalent or approved

- B "Durastyle" Close coupled floor standing toilet (Colour:
White) with rimless technology and integrated cistern
with dual flush system (3/6 litres) including soft closing
toilet seat and cover and floor fixing kit, installed
complete

No

10

"Grohe" or equivalent and approved

- C "Bau" ceramic wall hung basin (code: GRO-39440000)
with overflow, size 553mm x 386mm with centre hole,
bolted to wall with two 10mm bolts (code: RAW R-S1-
KPU141), installed complete.

No

3

- D "Bau" Ceramic urinal concealed inlet including fixation
set with flush volume of 1lt (Code: G-39438000), Rapido
U roughest (Code: 38338000) with Tectron skate infra-
red electronic final installation set with mains power
230v (Code: 37321SD1)

No

2

TRAPS, WASTES, ETC

"Cobra Watertech" or equivalent and approved

- E 32mm Chrome plated slotted basin waste union with
62mm dia. flange, 80mm shank and plug

No

3

- F 40mm Chrome plated heavy pattern sink waste union
with backnut, chain and stay (code: 317-40)

No

2

- G 40mm Chrome plated deep seal bottle trap with MI
outlet (code: 345/40)

No

12

Carried to Summary

R

SECTION NO 2

BILL NO 10

PLUMBING AND DRAINAGE

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

TAPS, VALVES, ETC

A	15mm "Cobratron" chrome plated electronic spout single temperature basin tap with sensor including water saving feature (flow rate to be set at 6L/min) and 230V connection to mains, complete
B	15mm "Stella" chrome plated deck mounted sink mixer with "swan neck" swivel spout outlet, ceramic disc head parts, bent inlet connections and wall flanges including water saving feature (flow rate to be set at 6L/min), complete
C	15mm Angle regulating valve with 350mm stainless steel flexible hose connector

No

8

No

2

No

22

R

EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES

[illegible]

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>					
<u>BILL NO 11</u>					
<u>GLAZING</u>					
<u>NOTE</u>					
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.					

<u>MIRRORS</u>					
<u>6.5mm Thick silver float glass mirror lead backed with polished and rounded edges, holed for and fixed with chromium plated dome capped mirror screws and fixed into fischer wall plugs in brickwork/blockwork or concrete</u>					
A	Mirror, size 600 x 1 000mm high	No	2		
B	Mirror, size 2 000 x 1 300mm high	No	1		
C	Mirror, size 600 x 1 400mm high	No	1		
D	Mirror, size 2 080 x 1 400mm high	No	1		
E	Mirror, size 2 630 x 1 400mm high	No	1		
<u>SHADING FILM TO EXISTING WINDOWS</u>					
<u>Retrofit "Klingshield" or equivalent and approved solar film shading tint vinyl with a minimum of 50% tint to the inside of the existing glazing of shopfronts and windows including cleaning of surfaces prior to application and all necessary adhesives, complete as per manufacturers instructions and specifications to</u>					
F	Glazing of existing windows and shopfronts, complete	m2	251		
<u>CARRIED TO SUMMARY OF SECTION NO 2</u>					R
<u>SECTION NO 2</u>					
<u>BILL NO 11</u>					
<u>GLAZING</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

ON INTERNAL FLOATED PLASTER SURFACES

Prepare, make good defective plaster and apply one coat Plascon or equivalent and approved plaster primer, one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved "wall and all" washable acrylic matt paint (Code: WAA1), in accordance to the manufacturer's specifications, to approved colour to

A Walls ("White" colour group)

m2

5

Prepare, skim existing surface and apply one coat Plascon or equivalent and approved plaster primer, one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved "wall and all" washable acrylic matt paint (Code: WAA1), in accordance to the manufacturer's specifications, to approved colour to

B Walls ("White" colour group)

m2

427

ON CONCRETE SURFACES

Prepare, skim existing surface and apply one coat Plascon or equivalent and approved plaster primer, one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved "wall and all" washable acrylic matt paint (Code: WAA1), in accordance to the manufacturer's specifications, to approved colour to

C Isolated and projecting columns ("White" colour group)

m2

33

D Soffits and sides beams ("White" colour group)

m2

20

ON SKIM PLASTER, ETC.

Prepare, make good defective plaster and apply one coat Plascon or equivalent and approved gypsum plaster primer, one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved "wall and all" washable acrylic matt paint (Code: WAA1), in accordance to the manufacturer's specifications, to approved colour to

E Drywalls partitions ("White" colour group)

m2

78

Carried to Summary

R

SECTION NO 2

BILL NO 12

PAINTWORK

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Prepare, make good defective plaster and apply one coat Plascon or equivalent and approved gypsum plaster primer, one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved washable acrylic matt "ceiling" paint (Code: GR-N03), in accordance to the manufacturer's specifications, to approved colour to</u>				
A	Internal soffits of suspended ceilings and bulkheads ("Deep" colour group)	m2	43		
B	Internal vertical sides of bulkheads ("Deep" colour group)	m2	1		
	<u>Prepare, make good defective plaster and apply one coat Plascon or equivalent and approved gypsum plaster primer, one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved washable acrylic matt "ceiling" paint (Code: WAA1), in accordance to the manufacturer's specifications, to approved colour to</u>				
C	Internal soffits of suspended ceilings and bulkheads ("White" colour group)	m2	181		
D	Internal vertical sides of bulkheads ("White" colour group)	m2	20		
	<u>ON WOOD, ETC</u>				
	<u>Prepare, make good defective plaster and apply one coat Plascon or equivalent and approved wood primer, one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved washable acrylic matt "ceiling" paint (Code: WAA1), in accordance to the manufacturer's specifications, to approved colour to</u>				
E	Timber slats only on timber slatted ceilings ("White" colour group)	m2	85		
	<u>Carried to Summary</u>				
	<u>SECTION NO 2</u>				
	<u>BILL NO 12</u>				
	<u>PAINTWORK</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				
				R	

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Prepare and prime one coat Plascon or equivalent and approved wood primer, one coat one coat Plascon or equivalent and approved universal undercoat and two coats Plascon or equivalent and approved washable acrylic matt "wood" paint (Code: GR-N03), in accordance to the manufacturer's specifications, to approved colour to

A	General surfaces of doors	m2	35
B	General surfaces of doors frames	m2	14

Carried to Summary

R

SECTION NO 2

BILL NO 12

PAINTWORK

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

<u>SECTION NO</u>	<u>BILL NO</u>	<u>PAYMENT METHOD</u>	<u>SUMMARY</u>	<u>Total of Page No.</u>	<u>Page No</u>	<u>Amount</u>
SECTION NO 2	BILL NO 12	PAINTWORK			197	
					198	
					199	
					200	
			CARRIED TO SUMMARY OF SECTION NO 2			R
SECTION NO 2	BILL NO 12	PAINTWORK	EVOLEVE QUANTITY SURVEYORS BILLS OF QUANTITIES			

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>				
<u>BILL NO 13</u>				
<u>PAPERHANGING</u>				
<u>NOTE</u>				
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.				

<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Preparatory work to previously painted surfaces</u>				
Surfaces shall be thoroughly washed down and allowed to dry completely before paperhanging is commenced. Blistered and peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth. All surfaces shall be painted with a single coat of interior quality PVA emulsion paint				
<u>PAPERHANGING TO EXISTING WORK</u>				
<u>Gloss vinyl wallpaper (PC Amount: R800/m2) on previously painted surfaces, including adhesives and one coat preparatory emulsion paint as per manufacturers specification to</u>				
A Walls and columns including narrow widths	m2	63		
<u>CARRIED TO SUMMARY OF SECTION NO 2</u>				R
<u>SECTION NO 2</u>				
<u>BILL NO 13</u>				
<u>PAPERHANGING</u>				
EVOLVE QUANTITY SURVEYORS				
BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>					
<u>BILL NO 14</u>					
<u>BUILDERSWORK IN CONNECTION WITH ELECTRICAL INSTALLATION (PROVISIONAL)</u>					
<u>NOTE</u>					
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.					

<u>OPENINGS THROUGH WALLS, ETC</u>					
<u>Cutting through floors, walls and ceilings</u>					
A	Cutting floor chasings 30mm wide into surface beds	m	100		
B	Cutting vertical chasings 30mm wide into brickwork/blockwork	m	150		
C	Ditto, but 40mm wide	m	75		
<u>Making good internal cement plaster</u>					
D	30mm Wide vertical chasings in brick walls	m	150		
E	Ditto, but 40mm wide	m	75		
<u>Making good concrete surface beds and screeds</u>					
F	Floor surfaces where 30mm wide chasings were cut	m2	10		
<u>Breaking out and forming opening for cable installation through brick walls including necessary precast concrete lintels, close up opening around duct and making good all trades</u>					
G	Opening 200 x 300mm through 220mm thick brick wall	No	10		
<u>Carried to Summary</u>					R
<u>SECTION NO 2</u>					
<u>BILL NO 14</u>					
<u>BUILDERSWORK ICW ELECTRICAL INSTALLATION</u>					
<u>EVOLVE QUANTITY SURVEYORS</u>					
<u>BILLS OF QUANTITIES</u>					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

SLEEVES, ETC

Pipes

A	25mm Diameter PVC sleeve with draw wire laid in ground under solid floors not exceeding 1m deep	m	100		
---	---	---	-----	--	--

Fittings

B	Extra over for 25mm bend	No	35		
---	--------------------------	----	----	--	--

Carried to Summary

R

SECTION NO 2

BILL NO 14

BUILDERSWORK ICW ELECTRICAL INSTALLATION

EVOLVE QUANTITY SURVEYORS

BILLS OF QUANTITIES

<u>SECTION NO 2</u> <u>BILL NO 14</u> <u>BUILDERSWORK ICW ELECTRICAL INSTALLATION</u> <u>SUMMARY</u>	<u>Page No</u> 203 204	<u>Amount</u>
Total of Page No.		
<u>CARRIED TO SUMMARY OF SECTION NO 2</u> <u>SECTION NO 2</u> <u>BILL NO 14</u> <u>BUILDERSWORK ICW ELECTRICAL INSTALLATION</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		R

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION 2</u>					
<u>BILL NO 15</u>					
<u>BUILDERSWORK IN CONNECTION WITH MECHANICAL INSTALLATION (PROVISIONAL)</u>					
<u>NOTE</u>					
Tenderers are advised to study the General Preambles for Trade 2017 before pricing this Bill.					

<u>OPENINGS THROUGH WALLS, ETC</u>					
<u>Breaking out and forming opening for air conditioning ducts through 220mm brickwalls including necessary precast concrete lintols, close up opening around duct and making good all trades</u>					
A	Opening 200 x 200mm through 220mm thick brickwall	No	9		
B	Opening 300 x 300mm, ditto	No	5		
C	Opening 600 x 600mm, ditto	No	3		
<u>Breaking out and forming opening for air conditioning ducts through 280mm brickwalls including necessary precast concrete lintols, close up opening around duct and making good all trades</u>					
D	Opening 800 x 800mm through 280mm thick cavity brickwall	No	5		
<u>Access hatches in drywall bulkheads</u>					
E	600 x 600mm openings	No	10		
<u>CARRIED TO SUMMARY OF SECTION NO 2</u>					R
<u>SECTION NO 2</u>					
<u>BILL NO 15</u>					
<u>BUILDERSWORK ICW MECHANICAL INSTALLATION</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

Without in any way limiting the meaning and interpretation, general attendance on subcontractors shall include free of charge to the subcontractor the following services for the purpose of the relative subcontract works:

- 1.access to the site and to the places where the work is to be carried out, including the use of any temporary personnel hoists erected by the Contractor for his own use;
- 2.the provision of water, lighting and electric power to a position within 50 metres of the place where the work is to be carried out;
- 3.the use of erected scaffolding belonging to the Contractor, in common with others having the like right whilst it so remains erected upon the site;
- 4.the use of site services, messrooms, toilets, health and welfare facilities and the like, where provided;

In the event of the Contractor allowing for profit and/or attendance, the amount(s) will be subject to adjustment pro-rata to the actual value of the subcontractor work calculated in direct ratio to any adjustment to the Provisional Sum.

The cost of fuel for the commissioning of plant shall be borne by the selected subcontractor appointed for the relevant subcontractor works in terms of the conditions under which they have/are to contract for the specialist work involved.

PROVISIONAL SUMS FOR SPECIALIST SUB-CONTRACT WORKS

ELECTRICAL INSTALLATION

Allow the Provisional Tendered Sum of as per Section 3 of this document nett for the electrical installations to be executed by the domestic sub-contractor

A Add for profit

Item

B Allow for general attendance on above

Item

FIRE PROTECTION INSTALLATION

Allow the Provisional Tendered Sum of as per Section 4 of this document nett for the fire protection installations to be executed by the domestic sub-contractor

Carried to Summary

R

SECTION NO 2

BILL NO 16

PROVISIONAL SUMS

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	Add for profit	Item	
B	Allow for general attendance on above	Item	
<u>MECHANICAL INSTALLATION</u>			
Allow the Provisional Tendered Sum of as per Section 5 of this document nett for mechanical installations to be executed by the domestic sub-contractor			
C	Add for profit	Item	
D	Allow for general attendance on above	Item	
<u>WET SERVICES INSTALLATION</u>			
Allow the Provisional Tendered Sum of as per Section 6 of this document nett for the wet services installations to be executed by the domestic sub-contractor			
E	Add for profit	Item	
F	Allow for general attendance on above	Item	
<u>ADDITIONAL ATTENDANCES</u>			
NOTE: The following works are NOT included in this Contract and the Contractor will receive no cash or other discounts of the costs thereof.			
Allow for giving access to the works, general attendance on and all reasonable assistance to specialists employed direct by the Employer (or his contractor or tenants) for the execution of the following works. -----			
G	Specialists installing the data and Wi-Fi system, including equipment, cabling, etc to the Nelson Mandela Gateway Building	Item	
H	Specialists installing the alarm system, including equipment, cabling, etc to the Nelson Mandela Gateway Building	Item	
J	Specialists installing the CCTV system including equipment, cabling, etc to the Nelson Mandela Gateway Building	Item	
<u>Carried to Summary</u>			R
<u>SECTION NO 2</u>			
<u>BILL NO 16</u>			
<u>PROVISIONAL SUMS</u>			
EVOLVE QUANTITY SURVEYORS			
BILLS OF QUANTITIES			

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

BUDGETARY ALLOWANCES

Amounts allowed under this heading will be for work to be executed by the Contractor and/or sub-contractor and is to be remeasured after completion with rates from the Bills of Quantities used for measurement purposes and will be used at the discretion of the Architect and deducted in whole or in part if not required.

Removal of existing joinery

- A Provide the sum of R50 000.00 (Fifty Thousand Rand) for the removal of existing joinery, etc

Item

50 000.00

General Demolitions

- B Provide the sum of R15 000.00 (Fifteen Thousand Rand) for general demolitions, etc

Item

15 000.00

Carried to Summary

R

SECTION NO 2

BILL NO 16

PROVISIONAL SUMS

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

[illegible]

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING[illegible]

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 3</u>					
<u>BILL NO. 1</u>					
<u>LV RETICULATION</u>					
<u>The Supply, delivery and installation of SABS approved material, accessories and equipment as specified.</u>					
<u>ARMoured CABLES</u>					
<u>Supply and Install 600/1000V grade PVC/SWA/PVC insulated stranded copper conductors drawn into conduit, laid in ground, sleeves or cable tray.</u>					
A	16mm ² 4 core PVC / SWA / PVC	m	180		
B	6mm ² 4 core 1000V PVC / SWA / PVC Copper Cable	m	60		
<u>BARE COPPER EARTH WIRE</u>					
C	10mm ² Bare Copper Earth Wire	m	180		
D	4mm ² Bare Copper Earth Wire	m	75		
<u>CABLE TERMINATIONS(PVC/SWA/PVC)</u>					
<u>Supply and Install cable terminations complete including lugs, glands, shrouds, ferrules</u>					
E	16mm ² 4 core 1000V PVC / SWA / PVC Copper Cable	m	24		
F	6mm ² 4 core 1000V PVC / SWA / PVC Copper Cable	m	24		
<u>CABLE TERMINATIONS- BARE COPPER EARTH WIRE</u>					
<u>Supply and Install cable terminations complete including lugs, glands, shrouds, ferrules</u>					
G	10mm ² Bare Copper Earth Wire	EA	24		
H	4mm ² Bare Copper Earth Wire	EA	24		
<u>Carried to Summary</u>					R
<u>SECTION NO. 3</u>					
<u>BILL NO. 1</u>					
<u>LV RETICULATION</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

LV DISTRIBUTION BOARDS

A	Upgrade the Main Distribution Board	EA	1
B	Upgrade DB-Q1 to a 42 way	EA	1
C	Upgrade DB-Q2 to a 42 way	EA	2

Carried to Summary

SECTION NO 3

BILL NO 1

LV RETICULATION

**EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES**

R

<u>BILL NO</u>	<u>Page No</u>	<u>Amount</u>
SECTION NO 3 BILL NO 1 LV RETICULATION SUMMARY		
Total of Page No.	213 214	
CARRIED TO SUMMARY OF SECTION NO 3		R
SECTION NO 3 BILL NO 1 LV RETICULATION EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 3</u>					
<u>BILL NO. 2</u>					
<u>SMALL POWER AND LIGHTING INSTALLATIONS</u>					
<u>The Supply, delivery and installation of SABS approved material, accessories and equipment as specified.</u>					
<u>Chiselling Work</u>					
A	Provisional sum for chiselling work required to install the conduits and wall box			SUM	
<u>Draw Wires</u>					
B	Supply and install a 0,6mm diameter galvanised draw wire in conduit for data installation	m	1 250		
<u>Galvanised Conduit</u>					
C	25mm - Galvanised conduit including bending, short lengths, draw boxes, cutting, bands, jointing, couplings, saddles and wastage as per SABS 1065. Fixed to surface or laid in or flush	m	180		
<u>Conduit Work</u>					
<u>Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.</u>					
<u>Built or Chase into brick or concrete work:</u>					
D	20mm PVC Conduit	m	2 250		
E	25mm PVC Conduit	m	2 350		
<u>In Ceiling space and Timber work:</u>					
F	20mm PVC Conduit	m	1 700		
<u>Carried to Summary</u>				R	
<u>SECTION NO. 3</u>					
<u>BILL NO. 2</u>					
<u>SMALL POWER AND LIGHTING</u>					
<u>EVOLVE QUANTITY SURVEYORS</u>					
<u>BILLS OF QUANTITIES</u>					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	25mm PVC Conduit	m	1 920		
	<u>Conduit Boxes</u>				
	<u>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.</u>				
B	20mm diameter 4 way type(round box)	EA	30		
	<u>Wall Boxes</u>				
	<u>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or drywall work.</u>				
	<u>Flush mounted type:</u>				
C	100 x 50 x 50mm	EA	27		
D	100 x 100 x 50mm	EA	27		
E	100 x 50 x 50mm Standard white coverplates complete with chrome screws.	EA	27		
F	100 x 100 x 50mm Standard white coverplates complete with chrome screws.	EA	27		
	<u>PVC INSULATED GENERAL PURPOSE CONDUCTORS</u>				
	<u>Conductors drawn into conduit or installed in wiring channel</u>				
G	1.5mm ²	m	1 150		
H	2.5mm ²	m	1 650		
J	4mm ²	m	1 650		
K	6mm ²	m	1 600		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 3</u>				
	<u>BILL NO 2</u>				
	<u>SMALL POWER AND LIGHTING</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

<u>Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.</u>					
A	1.5mm ²	m	2 700		
B	2.5mm ²	m	3 300		
C	4mm ²	m	1 600		
D	450 x 450mm Bonding tray in roof space	m	900		
<u>Light Switches</u>					
<u>Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas</u>					
E	1 Lever 1 way	EA	18		
F	1 Lever 2 way	EA	4		
G	2 Lever 2 way	EA	5		
<u>Interior: Light Fittings</u>					
<u>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</u>					
H	Type F12- 53W LED recessed panel fitting, 1200mm X 600mm , 5300lm , 4000k	EA	109		
J	Type A- 40W, 240V T8 White, Tri-proof light batten tub ,explosion proof LED tube 1200mm, 2800lm 4FT	EA			Rate Only
K	Type V- 40W, 240V T8 White, Vapour Proof ,Tri-proof light batten tub ,explosion proof LED tube 1200mm, 2800lm 4FT	EA			Rate Only
L	Type OC: Ceiling and surface mount , round LED downlighters complete with accessories	EA	33		
<u>Carried to Summary</u>				R	
<u>SECTION NO 3</u>					
<u>BILL NO 2</u>					
<u>SMALL POWER AND LIGHTING</u>					
<u>EVOLVE QUANTITY SURVEYORS</u>					
<u>BILLS OF QUANTITIES</u>					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

A	MS: Ceiling and surface mount , motion sensors to be installed in bathrooms complete with accessories	EA	2		
	<u>Socket Outlets</u>				
	<u>Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.</u>				
	The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.				
	<u>Flush switched sockets type wall surfaces:</u>				
B	16A SA/Euro Combined switch socket outlets + US	EA	5		
C	16A SA/Euro normal double switch socket outlets	EA	26		
D	20A, DP Isolator(HVAC)	EA	19		
	<u>Flush switched sockets type in power skirting:</u>				
E	16A SA/Euro normal double switch socket outlets	EA	79		
	<u>Power Trunking/ Skirting</u>				
F	2 compartment power skirting installed in the offices on floor and under service desk and reception desk (To include All elbows, corners sections, T-sections& end caps)	m	820		
G	127 mm wide x 76 mm deep (for electronic services, as Cabstrut P9000)	m	170		
H	RJ45 point	EA	99		
J	RJ15 point	EA	3		
	<u>Electrical Tests</u>				
K	Manuals, Documentation, As Builts			SUM	
L	12 Month Maintenance Guarantee			SUM	
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 3</u>				
	<u>BILL NO 2</u>				
	<u>SMALL POWER AND LIGHTING</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

[illegible]

<u>SECTION NO 3</u>			
<u>BILL NO 2</u>			
<u>SMALL POWER AND LIGHTING</u>			
<u>SUMMARY</u>			
Total of Page No.	<u>Page No</u>		<u>Amount</u>
	216		
	217		
	218		
	219		
	220		
CARRIED TO SUMMARY OF SECTION NO 3		R	
<u>SECTION NO 3</u>			
<u>BILL NO 2</u>			
<u>SMALL POWER AND LIGHTING</u>			
EVOLVE QUANTITY SURVEYORS			
BILLS OF QUANTITIES			

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 3</u>					
<u>BILL NO. 3</u>					
<u>ACCESS CONTROL SYSTEM</u>					
<u>(To be done by a specialist contractor with experience)</u>					
<u>The Supply, delivery and installation of SABS approved material, accessories and equipment as specified.</u>					
A	IP Intelligent Biometric Finger PrintReader only- Entry	EA	8		
B	No Touch Exit on door safe side	EA	8		
C	Magnetic Door Lock 300kg	EA	8		
D	Dorma Door Closer	EA	8		
E	Door Monitor	EA	8		
F	Operators Workstation, 1 x Xeon E5-1620V4 / 3.5 GHz - RAM 16 GB, HDD 500GB,AMD Firepro 2GB Graphics with 4 (Display ports) Outputs, Serial port adaptor, Win10 Pro 64-bit (includes Win 10 Pro 64-bit Licence) - vPro -	EA	3		
G	Specialized Intergrated Security Software to operate IP access control system, once off license	EA	3		
H	Relocation of CCTV system			SUM	
J	CAT 6a Cable-yellow	m	1 600		
K	6 -core Mylar cable	m	1 600		
L	2.5mm² 3-core pvc cable	m	1 500		
M	25mm dia PVC conduits including all accessories	m	1 450		
N	Manuals, Documentation, As Builts			SUM	
P	12 Month Maintenance Guarantee			SUM	
<u>Carried to Summary</u>				R	
<u>SECTION NO. 3</u>					
<u>BILL NO. 3</u>					
<u>ACCESS CONTROL</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

[illegible]

<u>SECTION NO 3</u>			
BILL NO 3			
<u>ACCESS CONTROL</u>			
SUMMARY			
Total of Page No.		Page No 222 223	Amount
CARRIED TO SUMMARY OF SECTION NO 3	R		
SECTION NO 3			
BILL NO 3			
ACCESS CONTROL			
EVOLE QUANTITY SURVEYORS BILLS OF QUANTITIES			

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 3</u>					
<u>BILL NO. 4</u>					
<u>FIRE DETECTION AND PROTECTION</u>					
<u>The Supply, delivery and installation of SABS approved material, accessories and equipment as specified.</u>					
<u>Fire Detection relocation , wiring and distribution</u>					
A	Relocation of existing addressable Smoke sensing fire detector complete with surface base including required pumping work	EA	11		
B	New addressable Smoke sensing fire detector complete with surface base.	EA	11		
C	Addressable Heat Sensing fire detector complete with surface base.	EA	3		
D	Relocation of existing addressable Break Glass Call points complete (Resettable), with surface base including required wiring work	EA	6		
E	New addressable Break Glass Call points complete (Resettable), with surface base.	EA	6		
F	Provision of fire escape doors and complete interface with access control system for release of Fire Escape Doors	EA	6		
G	Relocation of existing addressable Wall mounted audible alarm (Sounder) complete with surface base.	EA	3		
H	New addressable Wall mounted audible alarm (Sounder) complete with surface base.	EA	6		
J	Relocation of addressable Ceiling mounted Strobe Light complete with surface base.	EA	3		
K	New addressable Ceiling mounted Strobe Light complete with surface base.	EA	3		
<u>Carried to Summary</u>					R
<u>SECTION NO. 3</u>					
<u>BILL NO. 4</u>					
<u>FIRE DETECTION</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY BUILDING

A	Addresable Line Isolators with complete accessories.		EA	3		
B	Fire Retardant (Red) cabling (PH120)	m		1 200		
C	25mm Galvanised Conduit In Ceiling Including all fittings, elbows,tees ,reducers etc	m		150		
D	Manuals, Documentation, As Builts	Sets		3.0		
E	12 Month Maintenance Guarantee				SUM	
F	Training of Personnel				SUM	
G	Testing and Commissioning of Installation				SUM	
H	Issuing of Fire Compliance COC by a registered personal		EA	3		
<u>Carried to Summary</u>						R
SECTION NO_ 3 BILL NO_ 4 <u>FIRE DETECTION</u> EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES						

<u>SECTION NO 3</u>			
<u>BILL NO 4</u>			
<u>FIRE DETECTION</u>			
<u>SUMMARY</u>			
Total of Page No.		Page No 225 226	Amount
CARRIED TO SUMMARY OF SECTION NO 3			R
<u>SECTION NO 3</u>			
<u>BILL NO 4</u>			
<u>FIRE DETECTION</u>			
EVOLVE QUANTITY SURVEYORS			
BILLS OF QUANTITIES			

SECTION SUMMARY - ELECTRICAL INSTALLATION

SECTION NO. 3
EVOLVE QUANTITY SURVEYORS
BILLS OF QUANTITIES

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 4</u>				
<u>BILL NO. 1</u>				
<u>FIRE PROTECTION</u>				
<u>FIRE SERVICES</u>				
<u>The Supply, delivery and installation of SABS approved material, accessories and equipment as specified.</u>				
A	Fire Signage		SUM	
B	4.5/5kg Dry Chemical Fire Extinguisher, Including brackets to wall mount	EA	8	
C	890mm High x 590mm Width x 285mm Depth Fire Extinguishers Cabinet comes with Vandal Proof System	EA	8	
D	Emergence Evacuation Plan Design	EA	3	
<u>SERVICING OF EXISTING FIRE HYDRANTS AND HORSE REELS</u>				
E	Servicing of exisiting fire Hydrant system	EA	6	
F	Servicing of existing fire horse reels system including required plumbing	EA	8	
G	Test of the fire hydrant system	EA	3	
H	Issuing of Fire Compliance Certificate by a registered personal	EA	3	
<u>CARRIED TO FINAL SUMMARY</u>				R
<u>SECTION NO. 4</u>				
<u>BILL NO. 1</u>				
<u>FIRE PROTECTION</u>				
EVOLVE QUANTITY SURVEYORS				
BILLS OF QUANTITIES				

**EV24001 - ROBBER ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

		<u>Unit</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>SECTION NO. 5</u>					
<u>BILL NO. 1</u>					
<u>HVAC INSTALLATION</u>					
<u>AIR CONDITION</u>					
<u>Provide as per the client's specification and bring to working condition: Split type air conditioning units .</u>					
<u>The Units will operate on rotational basic as such will be programmed accordingly.</u>					
A	1.6kW Mid Wall Unit with 1.6 kW Outdoor unit inverter type Including wall mounted control panel, drainage pump, Air filter, decoration panel, mountings, connection to refrigerant piping and connection to drainage piping	EA	2		
B	1,6kW 4 Way Cassette Unit with 1,6 kW Outdoor unit inverter type Including wall mounted control panel, drainage pump, Air filter, decoration panel, mountings, connection to refrigerant piping and connection to drainage piping	EA	3		
C	2,0kW 4 Way Cassette Unit with 2,0 kW Outdoor unit inverter type Including wall mounted control panel, drainage pump, Air filter, decoration panel, mountings, connection to refrigerant piping and connection to drainage piping	EA	14		
D	3,0kW 4 Way Cassette Unit with 3,0 kW Outdoor unit inverter type Including wall mounted control panel, drainage pump, Air filter, decoration panel, mountings, connection to refrigerant piping and connection to drainage piping	EA	4		
<u>FANS UNIT</u>					
<u>Carried to Summary</u>					R
<u>SECTION NO. 5</u>					
<u>BILL NO. 1</u>					
<u>HVAC</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

	<u>Provide as per the client's specification and bring to working condition fans units . The Units will operate on rotational basic as such will be programmed accordingly.</u>				
A	Waterproof In line axial supply fan (15[l/s] at 50 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	1		
B	Waterproof In line axial supply fan (27[l/s] at 100 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	1		
C	Waterproof In line axial supply fan (60[l/s] at 150 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	11		
D	Waterproof In line axial supply fan (72[l/s] at 150 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	2		
E	Waterproof In line axial supply fan (106[l/s] at 150 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	2		
F	Waterproof In line axial supply fan (109[l/s] at 150 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	3		
G	Waterproof In line axial supply fan (135[l/s] at 250 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	1		
H	Waterproof In line axial supply fan (150[l/s] at 250 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	1		
J	Waterproof In line axial supply fan (265[l/s] at 250 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	1		
K	Waterproof In line axial supply fan (398[l/s] at 250 [Pa]) Including mountings, sound attenuators and fitting to ducting as per specification document	EA	1		
	<u>Carried to Summary</u>			R	
	<u>SECTION NO 5</u>				
	<u>BILL NO 1</u>				
	<u>HVAC</u>				
	EVOLVE QUANTITY SURVEYORS				
	BILLS OF QUANTITIES				

**EV24001 - ROBBEN ISLAND MUSEUM: NELSON MANDELA GATEWAY
BUILDING**

<u>DUCTING AND CONNECTIONS</u>					
A	Supply, delivery to site, storage and installation of the ducting system with accessories and sized in the drawing. Installation shall be in accordance with the manufacturer detailed design (Entrance Level)				SUM
B	Supply, delivery to site, storage and installation of the ducting system with accessories and sized in the drawing. Installation shall be in accordance with the manufacturer detailed design (Quay and Upper Level)				SUM
<u>FRESH AIR SUPPLY AND EXTRACTION</u>					
C	Supply, delivery to site, storage and installation of the ducting system with accessories and sized in the drawing. Installation shall be in accordance with the manufacturer detailed design				SUM
<u>DAMPERS</u>					
D	Supply, delivery to site, storage and installation of the ducting system with accessories and sized in the drawing. Installation shall be in accordance with the manufacturer detailed design (Entrance Level)				SUM
E	Supply, delivery to site, storage and installation of the ducting system with accessories and sized in the drawing. Installation shall be in accordance with the manufacturer detailed design (Quay and Upper Level)				SUM
<u>Diffusers, Louvers and Grills</u>					
F	Adjustable airflow round ceiling mounted diffuser - sized dia duct connection Including connection to ducting and fixing / replacing of roof tile	EA	24		
G	Issuing of COC by a registered personal	EA	3		
H	Testing and Commissioning of Installation				SUM
<u>Carried to Summary</u>					R
<u>SECTION NO. 5</u>					
<u>BILL NO. 1</u>					
<u>HVAC</u>					
EVOLVE QUANTITY SURVEYORS					
BILLS OF QUANTITIES					

[illegible]

<u>Section No</u>	<u>FINAL SUMMARY</u>	<u>Page No</u>	<u>Amount</u>
1	STANDARD PRELIMINARIES	136	
2	BUILDERSWORK	212	
3	ELECTRICAL INSTALLATION	228	
4	FIRE PROTECTION INSTALLATION	229	
5	MECHANICAL INSTALLATION	233	
6	WET SERVICE INSTALLATION	234	
	TOTAL OF BUILDING WORKS		R
	<u>CONTINGENCIES</u>		
	Allow the sum of 10% (ten percent) of the above Sub-Total for Contingencies to be expended as directed by the Employer or Employer's representative or deducted in whole or in part from the Contract Amount		R
	TOTAL OF BUILDING WORKS & CONTINGENCIES		R
	VALUE ADDED TAX at 15%		R
	CARRIED TO FORM OF TENDER AND TENDER DOCUMENT		R
	EVOLVE QUANTITY SURVEYORS BILLS OF QUANTITIES		