

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	<p>The JBCC Series 2000 Principal Building Agreement (March 2005 edition 4.1) prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (March 2005 edition) prepared by the Joint Building Contracts Committee, shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence</p>			
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PREAMBLES FOR TRADES

The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles

GENERAL

If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "**F**", "**T**" or "**V**" as the case may be below such item, where "**F**" denotes a fixed amount (amount not to be varied), "**T**" denotes an amount variable in proportion to time and "**V**" denotes an amount variable in proportion to value

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

- | | | |
|---|---|------|
| 1 | Definitions and interpretation (clause 1)
F:..... V:.....
T:..... | Item |
|---|---|------|

Objective and Preparation (A2 to A14)

- | | | |
|---|---|------|
| 2 | Offer acceptance and performance (clause 2)
F:..... V:.....
T:..... | Item |
|---|---|------|

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3	Documents (clause 3)F:..... V:..... T:.....	Item	
4	Design responsibility (clause 4)F:..... V:..... T:.....	Item	
5	Employer's agents (clause 5)F:..... V:..... T:.....	Item	
	<p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part</p> <p>The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process</p>		
6	Site representative (clause 6)F:..... V:..... T:.....	Item	
7	Compliance with regulations (clause 7)F:..... V:..... T:.....	Item	
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8	Works risk (clause 8) F:..... V:..... T:.....	Item		
9	Indemnities (clause 9)F:..... V:..... T:.....	Item		
10	Works insurances (clause 10) F:..... V:..... T:.....	Item		
11	Liability insurances (clause 11)F:..... V:..... T:.....	Item		
12	Effecting insurance (clause 12)F:..... V:..... T:.....	Item		
13	NO CLAUSE	N/A		
14	Security (clause 14)F:..... V:..... T:.....	Item		
<u>Execution (A15-A23)</u>				
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item		
16	Access to the works (clause 16)F:..... V:..... T:.....	Item		
17	Contract instructions (clause 17)F:..... V:..... T:.....	Item		
18	Setting out of the works (clause 18)F:..... V:..... T:..... The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc exist in order that the necessary arrangements may be made for the rectification of any such encroachments	Item		
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19	Assignment (clause 19)F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	Item		
20	Nominated subcontractors (clause 20)F:..... V:..... T:.....	Item		
21	Selected subcontractors (clause 21)F:..... V:..... T:..... Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors	Item		
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item		
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:.....	Item		
<u>Completion (A24-A30)</u>				
24	Practical completion (clause 24)F:..... V:..... T:.....	Item		
25	Works completion (clause 25)F:..... V:..... T:.....	Item		
26	Final completion (clause 26)F:..... V:..... T:.....	Item		
27	Latent defects liability period (clause 27)F:..... V:..... T:.....	Item		
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28	Sectional completion (clause 28)F:..... V:..... T:.....	Item		
29	Revision of date of practical completion (clause 29)F:..... V:..... T:..... The removal and replacement of materials and/or workmanship that do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract sum (clause 29.3)	Item		
30	Penalty for non-completion (clause 30)F:..... V:..... T:.....	Item		
<u>Payment (A31 - A35)</u>				
31	Interim payment to the contractor (clause 31)F:..... V:..... T:.....	Item		
32	Adjustment to the contract value (clause 32)F:..... V:..... T:..... Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract 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 final certificate, it will be in writing	Item		
33	Recovery of expense and loss (clause 33)F:..... V:..... T:.....	Item		
34	Final account and final payment (clause 34)F:..... V:..... T:.....	Item		
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The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion

The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account

35 Payment to other parties (clause 35)

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

Item

Cancellation (A36-A39)

36 Cancellation by employer - contractor's default (clause 36)

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

Item

37 Cancellation by employer - loss and damage (clause 37)

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

Item

38 Cancellation by contractor - employer's default (clause 38)

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

Item

39 Cancellation - cessation of the works (clause 39)

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

Item

Dispute (A40)

40 Dispute Settlement (clause 40)

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

Item

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41	<p><u>Substitute Provisions (A41)</u></p> <p>State clauses (Clause 41)</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p> <p><u>THE SCHEDULE</u></p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p>	Item		
42	<p>Pre-tender information (clause 42)</p> <p>F:..... V:..... T:.....</p> <p><u>42.1 CONTRACTING AND OTHER PARTIES</u></p> <p>42.1.1 Employer:</p> <p>DEVELOPMENT BANK OF SOUTHERN AFRICA</p> <p>Postal Address: P O Box 1234 HALFWAY HOUSE, 1685</p> <p>Physical Address: Headway Hill, 1258 Lever Road MIDRAND, 1685</p> <p>Tel : 011 313 5000/3911/3297 Fax : Email : webmaster@debsa.org</p> <p><u>42.2 CONTRACT DETAILS</u></p> <p>42.2.1 Works Description:</p>	Item		
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<p>42.2.2 Site Description:</p> <p>42.2.3 Work or installations by direct contractors:</p> <p style="padding-left: 40px;">N/A</p> <p>42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only</p> <p style="text-align: right; padding-right: 20px;">Yes</p> <p>42.2.5 Date on which possession of the site is intended to be given:</p> <p style="text-align: right; padding-right: 20px;">T.B.A</p> <p>42.2.6 Period for the commencement of the works after the contractor takes possession of the site</p> <p style="text-align: right; padding-right: 20px;">5 <i>working days</i></p> <p>42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day</p> <p style="padding-left: 40px;">12 months after contractual commencement date <i>Date</i></p> <p style="text-align: right; padding-right: 20px;"><i>Penalty Amount</i> <i>is 0,05% of the Contract Amount per calendar day</i></p> <p>42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day</p> <p style="text-align: right; padding-right: 20px;">Section 1</p> <p style="padding-left: 40px;">N/A <i>Date</i></p> <p style="padding-left: 40px;">N/A <i>Penalty Amount</i></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Preliminary and General Bill No. 1 Preliminary and General</p>	<div style="border: 1px solid black; width: 100px; height: 100px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> R </div>
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42.2.9 The **law** applicable to this **agreement** shall be that of

South Africa (country)

42.3 INSURANCES

42.3.1 Contract works insurance to be effected by:

Contractor:

For the Sum of R Contract Sum + 10%

With a deductible of - to be determined by the contractor

42.3.2 Supplementary insurance is required

Yes

42.3.3 Public liability insurance to be effected by:

Contractor:

For the Sum of R10,000,000.00

With a deductible of - to be determined by the contractor

42.4 DOCUMENTS

42.4.1 Waivers of **contractors lien** or right of continuing possession is required

Yes

42.4.2 Number of construction document copies to be supplied to the **contractor** free of charge:

3 *Number of*

42.4.3 **Bills of Quantities/Lump sum document** schedule of rates drawn up in accordance with:

“Standard System of Measuring Builders’ Work”

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42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within **working days**

The priced bills of quantities must be handed in with the tender

42.4.5 JBCC Engineering General Conditions are to be included in the **contract documents**:

No

42.4.6 The contract value is to be adjusted using escalation adjustment indices

No

Where **JBCC CPAP** is to be used

Base Month

42.4.7 Details of changes made to the provision of JBCC standard documentation:

The base month for escalation will be as stated in this document. **N/A**

SECTION B: PRELIMINARIES

Definitions and interpretation (B1)

43 Definition and interpretation (B1.1 - B1.4.6)

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

T:.....

Item

Documents (B2)

44 Checking of documents (B2.1)F:.....

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

Item

45 Provisional bills of quantities (B2.2)F:.....

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

N/A

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46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item		
47	Interests of agents (B2.4)F:..... V:..... T:.....	Item		
48	Priced documents (B2.5)F:..... V:..... T:.....	Item		
49	Tender submission (B2.6)F:..... V:..... T:.....	Item		
<u>The site (B3)</u>				
50	Defined works area (B3.1)F:..... V:..... T:.....	Item		
51	Geotechnical investigation (B3.2)F:..... V:..... T:.....	Item		
52	Inspection of the site (B3.3)F:..... V:..... T:.....	Item		
	Existing premises occupied (B3.4)F:..... V:..... T:.....			
	Previous work - dimensional accuracy (B3.5)F:..... V:..... T:.....			
	Previous work - defects (B3.6)F:..... V:..... T:.....			
53	Services - known (B3.7)F:..... V:..... T:.....	Item		
54	Services - unknown (B3.8)F:..... V:..... T:.....	Item		
55	Protection of trees etc (B3.9)F:..... V:..... T:.....	Item		
56	Articles of value (B3.10)F:..... V:..... T:.....	Item		
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57	Inspection of adjoining properties etc (B3.11)F:..... V:..... T:.....	Item		
<u>Management of contract (B4)</u>				
58	Management of the works (B4.1) F:..... V:..... T:	Item		
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item		
60	Progress meetings (B4.3)F:..... V:..... T:.....	Item		
61	Technical meetings (B4.4)F:..... V:..... T:.....	Item		
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item		
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>				
63	Samples of materials (B5.1)F:..... V:..... T:.....	Item		
64	Workmanship samples (B5.2)F:..... V:..... T:.....	Item		
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
66	Compliance with Manufacturer's Instructions (B5.4) F:..... V:..... T:.....	Item		
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<u>Temporary works and plant (B6)</u>				
67	Deposits and fees (B6.1)F:..... V:..... T:.....	Item		
68	Enclosure of the works (B6.2)F:..... V:..... T:.....	Item		
69	Advertising (B6.3)F:..... V:..... T:.....	Item		
70	Plant, equipment, sheds and offices (B6.4) F: V:..... T:	Item		
71	Main notice board (B6.5)F:..... V:..... T:.....	Item		
72	Subcontractors' notice board (B6.6) F:..... V:..... T:.....	Item		
<u>Temporary services (B7)</u>				
73	Location (B7.1)F:..... V:..... T:.....	Item		
74	Water (B7.2) Option [A] shall apply F:..... V:..... T:.....	Item		
75	Electricity (B7.3) Option [A] shall apply F:..... V:..... T:.....	Item		
76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
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77	Ablution facilities (B7.5) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1)F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
79	General attendance (B9.1)F:..... V:..... T:.....	Item		
80	Special attendance (B9.2)F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3)F:..... V:..... T:.....	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1)F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) <div style="text-align: right;">Option [B] shall apply</div> F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) <div style="text-align: right;">Option [A] shall apply</div> F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4)F:..... V:..... T:.....	Item		
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<u>General (B11)</u>				
85	Protection of works (B11.1)F:..... V:..... T:.....	Item		
86	Protection/isolation of existing/sectionally occupied works (B11.2)F:..... V:..... T:.....	N/A		
87	Security of the Works (B11.3) F:..... V:..... T:.....	Item		
88	Notice before covering work (B11.4)F:..... V:..... T:.....	Item		
89	Disturbance (B11.5) F:..... V:..... T:.....	Item		
90	Environmental Disturbance (B11.6) F:..... V:..... T:.....	Item		
91	Works cleaning and clearing (B11.7) F:..... V:..... T:.....	Item		
92	Vermin (B11.8) F:..... V:..... T:.....	Item		
93	Overhand work (B11.9) F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
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95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
<u>Schedule of variables (B12)</u>				
97	Pre-tender information (B12.1)F:..... V:..... T:.....	Item		
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional:			No
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete			No
	12.1.3 Interest of agents (B2.4)			
	12.1.4 Defined works area (B3.1)			
	12.1.5 Geotechnical investigation (B3.2) N/A			
	12.1.6 Existing premises occupied (B3.4) Yes			
	12.1.7 Previous work - dimensional accuracy (B3.4)			
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12.1.8	Previous work - defects (B3.5)			
12.1.9	Services - known (B3.7)			
12.1.10	Protection of trees (B3.9) All trees should be protected and only on instruction of the Principal Agent may any trees be removed			
12.1.11 (B3.11)	Inspection of adjoining properties			
12.1.12	Enclosure of the works (B6.2)			
12.1.13	Offices (B6.4.3) An office for the clerck of works should be provided			
12.1.14	Main notice board (B6.5)	No		
12.1.15	Subcontractors notice board (B6.6) A notice board is required	No		
12.1.16	Water (B7.2) Alternative Selected: A			
12.1.17	Electricity (B7.3) Alternative selected: A			
12.1.18	Telecommunications (B7.4)			
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12.1.19 Ablution facilities (B7.5)
Alternative selected: A

12.1.20 Protection of existing/sectionally occupied works
(B11.2)

12.1.21 Special attendance (B9.2)
Subcontractor (1) details:
N/A

12.1.22 Protection of the works (B11.1)
N/A

12.1.23 Disturbance (B11.5)
N/A

12.1.24 Environmental Disturbance (B11.6)
N/A

Post tender information (B12.2)

12.2.1 Payment of preliminaries
Alternative selected: A

12.2.2 Adjustment of preliminaries
Alternative selected: A

12.2.3 Additional agreed preliminaries items
N/A

SECTION C: SPECIFIC PRELIMINARIES

Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included

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98	Black economic empowerment and training F:..... V:..... T:.....	Item		
99	Proprietary branded products F:..... V:..... T:..... The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative	Item		
100	Contract instructions F:..... V:..... T:..... Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor	Item		
101	Labour record F:..... V:..... T:..... At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week	Item		
102	Plant record F:..... V:..... T:.....	Item		
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	<p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>			
103	<p>Guarantees</p> <p>F:..... V:..... T:.....</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>	Item		
104	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer</p>	Item		
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105	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants 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 final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p>	Item		
106	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:</p> <p>Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained</p>	Item		
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<p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>The Tenderer is referred to the relevant Clauses in a separate document Model Preambles for Trades (1999 Edition) and to the Supplementary Preambles.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Short descriptions:</u></p> <p>For the preambles and full descriptions of items not fully described in this Bill, reference must be made to supplementary preambles and descriptions in other Sections. Such supplementary preambles and descriptions shall apply equally to the work in this Bill</p>			
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<p>Section No. 2 Alterations and Refurbishments Bill No. 1 Alterations & Refurbishments</p>			

General:

In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work

Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary

Any water supply and other piping that may be encountered and which is found necessary to disconnect, shall after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off and any new connections that may be necessary made with the proper tees, junction pieces, etc. to the satisfaction of the Representative/Agent

The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any services

OLD MATERIALS TO BECOME PROPERTY OF THE CONTRACTOR

Old materials from alterations, except where described as to be "re-used" or "handed over" shall become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities

OLD MATERIALS TO BE CARTED AWAY

Old materials from the alterations, where described as to be "re-used" as well as all rubbish, etc must be regularly carted from the site and not be allowed to accumulate on or around the site

OLD MATERIALS NOT TO BE RE-USED

Carried to Collection

R

Section No. 2
 Alterations and Refurbishments
 Bill No. 1
 Alterations & Refurbishments

None of the old materials are to be used for new work except where specifically described as being "set aside for re-use"

HANDING OVER OF MATERIALS

Where certain materials or articles from alterations are described as to be "handed over" to the Representative/Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.

EXISTING BUILDINGS **(NOT APPLICABLE)**

The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance

Carried to Collection

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Section No. 2
 Alterations and Refurbishments
 Bill No. 1
 Alterations & Refurbishments

SIZE PERTAINING TO EXISTING WORK

The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work

All sizes given in relation to existing work are approximate

MAKING GOOD DAMAGED WORK

The contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing

FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS

Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc., building up jambs or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described

DEMOLITION OF EXISTING STRUCTURES

Descriptions of demolition of existing structures where given in number shall be deemed to include demolitions, carting away rubble, levelling and compaction of surfaces

BUILDING UP OPENINGS

Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described

PAINTWORK

Carried to Collection

R

Section No. 2
 Alterations and Refurbishments
 Bill No. 1
 Alterations & Refurbishments

Where plasterwork on walls, ceilings, etc. is required to be patched or made good, prices are to include for the appropriate priming coat and one undercoat to receive paint finishing coats which are measured elsewhere

REMOVAL OF ASBESTOS MATERIAL ON SITE

Removal of asbestos material from existing building is to be done strictly in accordance to the **ASBESTOS ABATEMENT REGULATIONS, 2020** guidelines published under Government Notice R1196 in GG 43893 of 10 November 2020.

The bidder is deemed to have studied the regulation before pricing the works as no claims arising from under pricing will be entertained.

Carried to Collection

Section No. 2
 Alterations and Refurbishments
 Bill No. 1
 Alterations & Refurbishments

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REMOVAL OF EXISTING WORK

Taking out and removing doors, windows, etc. from frame:

1	Timber single door not exceeding 2.5m2	No	26
2	Steel door frames size 813 x 2 032mm high	No	5
3	Steel Burglar gate for door size 813 x 2 032mm high	No	18

Taking out/off and removing glass and mirrors

4	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	24
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

5	Roof covering, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 12m2 on plan including carting away rubble to dumping site located by the contractor	No	1
6	Asbestos roof covering, roof trusses, fascia and barge boards, gutters, down pipes, ceilings and cornices etc. approximately 431m2 on plan including carting away to an approved disposal site by an approved registered asbestos contractor	No	1

Taking out and removing ironmongery

7	Chalk boards	No	25
8	Pinning boards	m	25

Hacking up/off and removing vinyl tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc

9	Vinyl floor tiles	m2	1,159
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BUILDING UP OPENINGS

Carried to Collection

R

Section No. 2
Alterations and Refurbishments
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Alterations & Refurbishments

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Section No. 2

Bill No. 1

Alterations & Refurbishments

COLLECTION

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Section No. 2

Alterations and Refurbishments

Bill No. 1

Alterations & Refurbishments

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>BRICKWORK</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Face bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.			
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Half brick walls in beamfilling	m2	103	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brickwork reinforcement</u>			
2	75mm Wide reinforcement built in horizontally	m	403	
	<u>Galvanised hoop iron cramps, ties, etc</u>			
3	30 x 1,6mm Roof tie 1,5m long with one end fixed to timber and other end built into brickwork	No	268	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Alterations and Refurbishments			
	Bill No. 2			
	Masonry			

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Item No	Quantity	Rate	Amount
<u>BILL NO. 4</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Particle board:</u>			
Particle board shall comply with the following specifications:			
a) SABS 1300 Particle board: exterior and flooring type			
b) SABS 1301 Particle board: interior type			
<u>Joinery:</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>Decorative laminate finish:</u>			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			
Carried to Collection			R
Section No. 2			
Alterations and Refurbishments			
Bill No. 4			
Carpentry and Joinery			

ROOFS, ETC

Plate nailed timber roof truss construction

The following is applicable in respect of roof trusses:

Trusses are at maximum 1,10m centres

Roof covering is pre-painted corrugated roof sheeting on 50 x 75mm purlins at 1,1m maximum centres.

Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering.

All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.

Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.

All joints to be close fitted butt joints.

Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.

The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.

Tenderers must study the roof plan and sections as attached to the back of these bills of quantities (refer drawing No.'s CLASS-3 - 001 to 002) and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.

Sawn softwood

1	38 x 114mm Wall plates	m	201	
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Carried to Collection

Section No. 2
Alterations and Refurbishments
Bill No. 4
Carpentry and Joinery

R

2	Design, manufacture and deliver on site, plate nailed roof truss construction to Classroom Block, size 50 320 x 9 348mm overall on plan consisting of double pitched trusses, each truss 9 348 x 2 573mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	2		
3	Take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m2	936		
	<u>Sundries</u>				
4	Two coats creosote on sawn timbers	m2	107		
	<u>EAVES , VERGES , ETC</u>				
	<u>"Everite" pressed nutec-cement</u>				
5	12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	605		
	<u>SKIRTINGS</u>				
	<u>Wrought meranti</u>				
6	19 x 76mm Skirting including 19mm quadrant bead nailed	m	645		
	<u>DOORS ETC</u>				
	<u>Wrought hardwood flushback doors with sapele veneer hung to steel frames</u>				
7	44mm "TDM" Framed and ledged door 813 x 2 032mm high	No	27		
Carried to Collection				R	
Section No. 2 Alterations and Refurbishments Bill No. 4 Carpentry and Joinery					

Section No. 2

Bill No. 4

Carpentry and Joinery

COLLECTION

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Section No. 2

Alterations and Refurbishments

Bill No. 4

Carpentry and Joinery

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions:</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	<u>CEILINGS ETC</u>			
	<u>NAILED UP CEILINGS</u>			
	<u>9mm "Rhino" gypsum plasterboard with H-type pressed steel jointing strips</u>			
1	Ceilings including 38 x 38mm sawn softwood branderling at 400mm centres	m2	963	
2	Extra over ceiling for 650 x 650mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	5	
	<u>"Rhino" gypsum plasterboard cornices</u>			
3	75mm Coved cornices	m	682	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Alterations and Refurbishments			
	Bill No. 5			
	Ceilings, Partitions and Access Flooring			

R

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u>			
	<u>FLOOR COVERINGS</u>			
	<u>300 x 300 x 2,5mm "Marley" or other equal and approved semi-flexible vinyl tiles</u>			
1	On floors	m2	1,298	
	<u>POLISH, SEALERS, ETC</u>			
	<u>Two coats wax polish</u>			
2	On vinyl floors	m2	1,298	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Alterations and Refurbishments				
Bill No. 6				
Floor Coverings, Wall Linings, etc				

Item No		Quantity	Rate	Amount
	BILL NO. 7			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Finishes to ironmongery</u>			
	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			
	AS Anodised silver			
	AB Anodised bronze			
	AG Anodised gold			
	ABL Anodised black			
	PB Polished brass			
	PL Polished and lacquered			
	PT Epoxy coated			
	SD Sanded			
	NP Nickle plated			
	<u>LOCKS</u>			
	<u>"Mazac Tarpon"</u>			
1	"952/4L" four lever lockset and handles with chrome plated finish	No	27	
	<u>LETTERS, NAMEPLATES, ETC</u>			
2	60 x 3mm Thick perspex plate with two 40mm high engraved and painted numerals	No	24	
	<u>SUNDRIES</u>			
	<u>"Union"</u>			
3	38mm door stop plugged	No	27	
	<u>WRITING BOARDS, PINNING BOARD, ETC</u>			
	Carried to Collection		R	
	Section No. 2 Alterations and Refurbishments Bill No. 7 Ironmongery			

<u>"Virtrex" virtreous enamelled writing boards, etc to SABS CSK-36-1980</u>		
4	Green writing board 4 800 x 1 140mm high consisting of two fixed panels each 2 400 x 1 140mm high complete with aluminium chalk rail, etc, plugged	No 20
<u>"Parrot products"</u>		
5	"BD0476" 2 400 x 1 200mm Aluminium framed carpet bulletin board	No 20
<p style="text-align: right;">Carried to Collection</p>		
Section No. 2 Alterations and Refurbishments Bill No. 7 Ironmongery		

Section No. 2

Bill No. 7

Ironmongery

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Alterations and Refurbishments
Bill No. 7
Ironmongery

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Item No	Quantity	Rate	Amount
<u>BILL NO. 8</u>			
<u>METALWORK</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<u>GALVANISED WELDED SCREENS, GATES, ETC</u>			
<u>Galvanised Steel gates and frames</u>			
1	Single gate and frame 965 x 2 067mm high overall, the outer frame of 45 x 45 x 3mm hollow section bolted to wall with and including eight 70mm M80 expansion bolts and the gate 813 x 2 032mm high of 40 x 60 x 2mm hollow section frame with two 40 x 6mm flat section horizontal rails filled in with 20mm diameter vertical rails at 110mm centres fitted with one and a half pairs of suitable pin hinges welded to hollow section steel frame, complete with and including 150mm barrelbolt and padlock	No	10
<u>PRESSED STEEL GALVANISED DOOR FRAMES</u>			
<u>1,2mm Galvanised double rebated frames suitable for one brick walls</u>			
2	Frame for door 813 x 2 032mm high	No	9
Carried Forward to Summary of Section No. 2			R
Section No. 2 Alterations and Refurbishments Bill No. 8 Metalwork			

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[illegible]

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Item No	Quantity	Rate	Amount
<p><u>BILL NO. 12</u></p> <p><u>PAINTWORK</u></p> <p>Note: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill</p> <p>Note: Where reference is made to trade names in these Bills of Quantities, it shall be taken to read "or other equal approved."</p> <p>-----</p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a suitable filler and finished smooth</p> <p><u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u></p> <p><u>ON FLOATED PLASTER</u></p>			
<p style="text-align: right;">Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Alterations and Refurbishments Bill No. 12 Paintwork</p>			

<u>One coat merit plaster primer thinned with 20% mineral turpentine and two coats Plascon Wall & All emulsion paint</u>					
1	On external walls	m2	1,765		
<u>One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint</u>					
2	On internal walls	m2	1,862		
<u>ON PLASTERBOARD</u>					
<u>One coat primer and two coats interior quality PVA emulsion paint</u>					
3	On ceilings and cornices	m2	1,235		
<u>ON FIBRE-CEMENT</u>					
<u>One coat primer and two coats interior quality acrylic PVA paint</u>					
4	On fascias and barge boards	m2	138		
<u>One coat primer and two coats exterior quality PVA emulsion paint</u>					
<u>ON METAL</u>					
<u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel</u>					
5	On windows with burglar bars	m2	412		
<u>ON WOOD</u>					
<u>Three coats polyurethane semi-gloss varnish</u>					
6	On doors	m2	89		
7	On skirtings, rails, etc not exceeding 300mm girth	m	643		
Carried to Collection				R	
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Bill No. 12					
Paintwork					

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Bill No. 12

Paintwork

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Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS AND BUDGETRY ALLOWANCES</u>			
<u>NOTES:</u>			
<p>1. The Contractor's attention is drawn specifically to the Principal Building Agreement Clause 20.0 (Nominated Sub-Contractors), Clause 21.0 (Selected Sub-Contractors) and Clause 22 (Work by Others) and to the related Clauses in Section 1, Bill No. 1 - Preliminaries</p> <p>2. The Contractor's attention is drawn also to the definition of attendance on Nominated or Selected Sub-Contractors and of fuel, power and water for commissioning of mechanical and other specialised installations given in the JBCC Preliminaries</p> <p>3. Where special attendance includes the provision of hoisting facilities for a Sub-Contractor then the Contractor shall:-</p> <ul style="list-style-type: none"> * Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted, * Schedule the times of availability of the hoisting equipment for each Sub-Contractor, * Provide all necessary personnel to operate the hoisting equipment, <p>all to enable the Sub-Contractor to execute the hoisting or lowering of his material, etc. using the facilities provided by the Contractor</p> <p>4. Under no circumstances may any Provisional Amount, etc. be extended at an amount lower than the amount given in this Bill</p> <p>5. CPAP Formula Work Group 190 shall apply to all lump sum amounts of profit and attendance</p>			
Carried to Collection			
			R
<p>Section No. 4 Provisional Sums Bill No. 1 Provisional Sums</p>			

PROVISIONAL SUMS

ASBESTOS INSPECTION AUTHORITY (AIA)

- 1 Allow a Provisional Amount of R R60,000.00 Sixty Thousand for appointment of AIA to be used at the discretion of the Principal Agent and to be deducted in whole or in part if not required

Item 60,000.00

- 2 Profit

%

- 3 Allow for general attendance

%

Community Liaison Officer

- 4 Allow the sum of R100000(One Hundred ThousandRand)for Community Liason Officer

Item 100 000.00

- 5 Add for admin/handling fee on the above

Item

MINIMUM TARGETED ENTERPRISE DEVELOPMENT

A provisional amount has been allowed for in the execution of this project as described in C3.1 Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.

- 6

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- 7 Allowance for profit all inclusive of associated costs to the contractor for implementation.

%

- 8 Allowance for attendance all inclusive of associated costs to the contractor for implementation.

%

Carried to Collection

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Section No. 4
Provisional Sums
Bill No. 1
Provisional Sums

Section No. 4

Bill No. 1

Provisional Sums

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Provisional Sums

Section No	Page No	Amount
<u>FINAL SUMMARY</u>		
<u>PART A</u>		
1	24	
2	51	
3	52	
4	56	
Sub Total (A)		R
<u>PART B</u>		
Electrical Installations (See separate document - Part B) (Value-Added Tax excluded)		
Sub-Total (B)		R
<u>CONTINGENCIES</u>		
Allow 5% contingencies to be used at the discretion of the Principal Agent and to be deducted in whole or in part if not required		R
Sub-Total (C)		R
Add Value Added Tax		R
Carried to Form of Tender		R

Part B – Electrical & Mechanical Bill of Quantities

Contract No:
Nkosithandile Secondary School
Storm Damaged Phase 17
Development Bank Of Southern Africa
Bills Of Quantities:Electrical Works
BILL NO 1

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	<u>MAIN KIOSK</u> Make good existing Main LV kiosk ,neaten the wiring and provide legend card and COC				
1.1	(a) Supply and install	No	1		
2	<u>LOW VOLTAGE CABLES</u>				
2.1	600/1000V grade PVC/SWA/PVC stranded copper conductor cable. (Terminations and earth conductors are measured elsewhere) Cable laid in trenching and in sleeves (Excavations and sleeves are measured elsewhere). Supply and install i. 16mm ² x 3c (Supply cable for DB's) ii.70mm ² x 4c	m m	180 100		
3	<u>CABLE TERMINATIONS</u>				
3.1	Cable terminations complete including glands, shrouds, lugs, connections and commissioning. Supply and install the following terminations. i. 16mm ² ii.70mm ²	No No	12 4		
4	<u>BARE STRANDED COPPER CABLE</u>				
4.1	Bare stranded copper earth wire strapped to cables (Terminations measured elsewhere) 10mm ² 50mm ²	m m	180 100		
5	<u>COPPER EARTH TERMINATIONS</u>				
5.1	Bare stranded copper earth wire terminations complete, including drilling, bolting, lugs, connections and commissioning. Supply and install the following terminations 10mm ² 50mm ²	No No	12 4		
Total Carried Forward					

Nkosithandile Secondary School
BILL NO 2

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Total Brought Forward					
6	<u>EXCAVATIONS</u>				
6.1	Excavate for cable and sleeves trenches including temporary support of sides, keeping excavations dry, backfilling and compacting to the Engineers specification including bedding under and filling around cable comprising sifted sand. (a) Soil (b) Soft Rock (c) Hard Rock	m ³	55		
7	<u>CABLE MARKERS</u>				
	Supply and install the following (a) PVC Warning tape	m	120		
8	<u>CABLE SLEEVES</u>				
8.1	PVC sleeves laid in trenches or placed in position for casting into concrete or screed and for building into concrete brickwork and sealed off, inclusive of all bends and couplings. Supply and install the following 50mm	m	50		
8.2	Install 600 X 600mm Manholes, Complete With covers	No	2		
9	<u>DISTRIBUTION BOARDS.</u>				
9.1	Electrical distribution boards as specified and as per the detail line diagrams complete with doors, frames, sub-frames, chassis, fixtures, fittings, with spare space and including all switching equipment. Supply and Install distribution board 3Block	No	10		
Total Carried Forward					

Nkosithandile Secondary School
BILL NO 3

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
10	<u>CONDUIT AND ACCESSORIES AS SPECIFIED FOR SMALL POWER AND LIGHTING.</u>				
10.1	Conduit placed in position for casting into concrete or screed, for building or chased into concrete or brickwork and for surface mounted in ceiling void including bending, threading, jointing, short lengths, draw boxes, couplings, bends, tees and saddles. Supply and Install the following conduit and accessories. (a) 20mm (b) 25mm (b) 110mm	m m m	1500 100 120		
10.2	Round conduit boxes as specified placed in position for casting into concrete, built or chased into brickwork or surface mounted including locknuts and bushes. Supply and Install (a) 50mm round boxes	No	50		
10.3	Wall boxes as specied placed in position for casting into concrete, built or chased into brickwork including locknuts and bushes. Supply and Install the following: (a) 100 x 50 x 50mm (b) 100 x 100 x 50mm	No No	60 25		
11	<u>BLANK COVERS.</u> Supply and Install (a) 100 x 100mm	No	5		
12	<u>DRAW WIRE.</u> Supply and Install 1.5mm galvanised draw wire pulled into sleeve / conduit	m	3000		
Total Carried Forward					

Nkosithandile Secondary School

BILL NO 4

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		Total Brought Forward			
13	<u>CONDUCTORS.</u>				
13.1	600/1000V grade PVC insulated stranded copper conductors drawn in conduit Supply and Install the following conductors.				
	(a) 2.5mm ² PVC cable	m	2000		
	(b) 4.0mm ² PVC cable Red	m	800		
	(c) 4.0mm ² PVC cable Black	m	800		
13.2	Bare stranded copper earth conductors drawn in conduit. Supply and Install earth conductors.				
	(a) 2.5mm ²	m	1600		
14	<u>APPLIANCES.</u>				
14.1	Apparatus complete with cover plates fixed in flush boxes in the position as indicated on the drawings, draw boxes measured somewhere else				
	(a) 16 Ampere round 3-pin 250 V grade, Single switched socket outlet	No	60		
	(b) 16 Ampere 250 V grade, single lever	No	25		
15	<u>LUMINAIRES.</u>				
15.1	Installed and mounted to round boxes in brickwork or ceiling including all fixings, brackets, supports, connectors, connections and lamps. Supply and install the following:				
	Type A (28w LED 1200MM FITTING)	No	96		
	Type B (28w LED OPEN CHANNEL FITTING)	No	6		
	Type B6 (1PL26 Bulkhead Lights)	No	25		
	Supply and Install Complete of the Following:				
	(a) 10A Photo Cell	No	7		
Total Carried Forward					

Nkosithandile Secondary School
BILL NO 5

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
16	<u>EARTHING OF INSTALLATION.</u>				
		Total Brought Forward			
16.1	Supply 16mm2 stranded bare copper earth conductor.	m	200		
16.2	Supply and Install 16mm 1500mm long "Cadweld" copper coated earth electrodes, complete with clamp, driven into ground. Supply and Install terminations of	No	12		
16.3	16mm2 stranded bare copper earth conductor to roof sheeting and earthing electrodes including all fixing accessories.	No	15		
17	<u>HVAC & FIRE PROTECTION</u> Supply and install				
17.1	4,5kg DCP Fire extinguishers with accessories	No	20		
17.2	Fire Horse reels with all accessories	No	8		
17.3	3 Blade Ceiling Fans with controls	No	80		
18	<u>TESTING AND COMMISSIONING</u> Test and issue COCs per each DB	No	10		
19	<u>EXISTING INSTALLATION</u> Decommissioning of existing installation	Sum			
Total					
10% Contingencies					
Total Carried to Summary Page					