

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 1</u></b>			
	<b><u>PRELIMINARIES</u></b>			
	<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
	<p>The JBCC Series 2000 Principal Building Agreement (March 2005 edition) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The ASAQS Preliminaries (March 2005 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement 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>			
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

<p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p>The Model Preambles for Trades (2008 edition) as 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 Model Preambles will be entertained</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles.</p> <p>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 said Model Preambles and in any supplementary preambles</p> <p><b><u>PRICING OF PRELIMINARIES</u></b></p> <p><b><u>SECTION A - PRINCIPAL BUILDING AGREEMENT</u></b></p> <p>Should the contractor select Option A in terms of sub clause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T).</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b></p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>			R
	Definitions		
1	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item	
	Objective and preparations		
2	Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....	Item	
3	Clause 4.0 - Design responsibility F:..... V:..... T:.....	Item	
4	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item	
5	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
6	Clause 7.0 - Compliance with laws and regulations F:..... V:..... T:.....	Item	
<b>Carried Forward</b>			R
Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>					R
	<p>Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. 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 specifications.</p> <p>The contractor shall allow for and pay any levies required by the National Home Builders Registration Council (NHBRC). The contractor warrants that he is registered and will maintain registration with the NHBRC for the duration of this agreement F:..... V:..... T:.....</p>				
7	<p>Clause 8.0 - Works risk F:..... V:..... T:.....</p>	Item			
8	<p>Clause 9.0 - Indemnities F:..... V:..... T:.....</p>	Item			
9	<p>Clause 10.0 - General insurances F:..... V:..... T:.....</p>	Item			
10	<p>Clause 11.0 - Special insurances F:..... V:..... T:.....</p>	Item			
<b>Carried Forward</b>					R
<p>Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b></p>					

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
11	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item		
12	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
13	Clause 14.0 - Security F:..... V:..... T:.....	Item		
	Execution			
14	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item		
15	Clause 16.0-Site and Access F:..... V:..... T:.....	Item		
16	Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item		
17	Clause 18.0 - Setting out of the works 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.F:..... V:.....T:.....	Item		
18	Clause 19.0 - Temporary works and plant F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Brought Forward		R
19	Clause 20.0 - Nominated subcontractors F:..... V:..... T:.....	Item
20	Clause 21.0 - Selected subcontractors F:..... V:..... T:.....	Item
21	Clause 22.0 - Employer's direct contractors F:..... V:..... T:.....	Item
22	Clause 23.0 - Contractor's domestic subcontractors F:..... V:..... T:.....	Item
	Completion	
23	Clause 24.0 - Practical completion F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>		

	<b>Brought Forward</b>			R	
24	<p>Clause 25.0 - Works Completion</p> <p>25.1.1 The Contractor shall, within (5) working days of receipt of the works completion list, issue a programme indicating the date for completion of the works completion list, for the approval by the principal agent.</p> <p>25.1.2 Should the contractor fail to issue such a programme, it shall be deemed that the contractor agrees to complete the works completion list within (40) working days of the date of receipt of the works completion list.</p> <p>25.1.3 Should the contractor fail to complete the defects and achieve works completion in accordance with the agreed programme or deemed forty (40) day period, and without prejudice to any other rights that the employer might have, the contractor shall be liable to the employer for the penalties as described as the Works Completion Penalty per day until Works Completion is achieved.</p> <p>25.6 Upon the issue of the certificate of works completion the employer shall be entitled to possession of the works and the site subject to contractor's lien or right of possession of works</p> <p>F:..... V:..... T:.....</p>		Item		
25	<p>Clause 26.0 - Final completion</p> <p>F:..... V:..... T:.....</p>		Item		
26	<p>Clause 27.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>		Item		
27	<p>Clause 28.0 - Sectional completion</p> <p>F:..... V:..... T:.....</p>		Item		
	<b>Carried Forward</b>			R	
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>PRELIMINARIES</p> <p><b>DBSA</b></p>				

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
28	<p>Clause 29.0 - Revision of date for practical completion The removal and replacement of materials and/or workmanship which do not conform to specification or drawing shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3 ) F:..... V:..... T:.....</p>	Item		
29	<p>Clause 30.0 - Penalty for late or non-completion Clause 30.3 - Penalties for not achieving the date of works completion in terms of Clause 25.4 shall be levied at 150% of the penalties defined for not achieving Practical Completion F:..... V:..... T:.....</p> <p>Payment</p>	Item		
30	<p>Clause 31.0 - Interim payment Clause 31.6.5 shall be deemed to be deleted Materials and goods stored off site shall not be included in the amount authorised for payment F:..... V:..... T:.....</p>	Item		
31	<p>Clause 32.0 - Adjustment to the contract value Notwithstanding the provision of clause 32.13 or any other clause, all fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor F:..... V:..... T:.....</p>	Item		
32	<p>Clause 33.0 - Recovery of expense and loss F:..... V:..... T:.....</p>	Item		
33	<p>Clause 34.0 - Final account and final payment F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b></p>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
34	Clause 35.0 - Payment to other parties F:..... V:..... T:.....	Item		
	Termination			
35	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item		
36	Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item		
37	Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item		
38	Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item		
	Dispute			
39	Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item		
	Contract agreement			
40	Clause 41.0 - Post tender provisions	Item		
41	Clause 42.0 - Contractual agreement	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
	CONTRACT DATA EMPLOYER - CONTRACTOR The JBCC series 2000 Principal Building Agreement Edition 5.0 Contract Data - Employer to Contractor addendum contains all variables referred to in the Principal Building Agreement that are the responsibility of the Employer to provide the appropriate information that is necessary for the to complete his tender.			
	2.0 CONTRACT AND SITE INFORMATION2.1 Law applicable to this agreement:			
42	3.0 INSURANCES AND SECURITIES As per Contract Data section	Item		
43	4.0 PRACTICAL COMPLETION DATES AND PENALTIES As per Contract Data section	Item		
44	5.0 DOCUMENTS AND GENERAL As per Contract Data Section and Bills of Quantities	Item		
45	6.0 CHANGES MADE TO THE STANDARD JBCC DOCUMENT As per the Contract Data section	Item		
	<b><u>SECTION B - PRELIMINARIES</u></b>			
	Definitions and interpretation			
46	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item		
	Documents			
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		<b>R</b>	
47	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item		
48	Clause 2.2 - Provisional bills of quantities These bills of quantities are provisionally measured and the subsequent trades are budgetary allowances F:..... V:..... T:.....	Item		
49	Clause 2.3 - Availability of construction documentation - Yes F:..... V:..... T:.....	Item		
50	Previous work and adjoining properties	Item		
51	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item		
52	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item		
53	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item		
54	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
55	Priced documents (B2.5) F:..... V:..... T:.....	Item		
56	Tender submission (B2.6) F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		<b>R</b>	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Brought Forward		R
57	Management of contract (B4)	Item
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
	Samples, shop drawings and manufacturer's instructions	
63	Clause 4.1 - Samples of materials F:..... V:..... T:.....	Item
64	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item
65	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>		

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		<b>R</b>	
66	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	Deposits and fees			
67	Clause 5.1 - Deposits and fees 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		
	Temporary services			
73	Clause 6.1 - Water F:..... V:..... T:.....	Item		
74	Clause 6.2 - Electricity F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		<b>R</b>	
	Section No. 1			
	Bill No. 1			
	PRELIMINARIES			
	<b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
75	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item		
76	Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item		
	Prime cost amounts			
77	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item		
	Attendance on N/S Subcontractors (B9)			
78	General attendance (B9.1)	Item		
79	Special attendance on n/s subcontractors	Item		
80	Clause 8.1 - Special attendance F:..... V:..... T:.....	Item		
	Financial aspects (B10)			
81	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) Option [A] / [B] shall apply	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
83	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Item		
84	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
	General			
85	Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item		
86	Clause 9.2 - Protection/isolation of existing/sectionally occupied works F:..... V:..... T:.....	Item		
87	Clause 9.3 - Security of the works F:..... V:..... T:.....	Item		
88	Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item		
89	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item		
90	Clause 9.6 - Environmental disturbance F:..... V:..... T: .....	Item		
91	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
92	Clause 9.8 - Vermin F:..... V:..... T:.....	Item		
93	Clause 9.9 - Overhand work F:..... V:..... T:.....	Item		
94	Instruction manuals and guarantees (B11.10) F:..... V:..... T:.....	Item		
95	As built information (B11.11) F:..... V:..... T:.....	Item		
96	Tenant Installations (B11.12) F:..... V:..... T:.....	Item		
97	Site instructions 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 F:..... V:..... T:.....	Item		
	Schedule of variables			
	Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract			
	10.1 - Provisional bills of quantities [clause 2.2] The quantities are provisional No			
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>		R	
10.2 - Availability of construction documentation [clause 2.3] Construction documentation is complete Yes			
10.3 - Previous work - dimensional accuracy [clause 3.1]			
10.4 Interest of agents (B2.4) N/A			
10.5 Defined works area (B3.1) As per Scope of Works, etc.			
10.6 Geotechnical investigation (B3.2) YES			
10.7 Existing premises occupied (B3.4) YES			
10.8 Previous work - dimensional accuracy (B3.4) N/A			
10.9 Previous work - defects [clause 3.2] N/A			
10.10 Services - known (B3.7) YES			
10.11 Protection of trees (B3.9) N/A			
10.12 Inspection of adjoining properties [clause 3.3]			
10.13 Enclosure of the works (B6.2) YES			
10.14 Offices (B6.4.3) YES			
<b>Carried Forward</b>		R	
Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>		R	
10.15 Main notice board (B6.5) YES			
10.16 Subcontractors notice board (B6.6) A notice board is required No			
10.17 - Water [clause 7.2] Option A (by Contractor) Yes			
10.18 - Electricity [clause 7.3] Option A (by Contractor) Yes			
10.19 - Telecommunications [clause 7.4] Telkom (by Contractor) YES			
10.20 - Ablution facilities [clause 7.5] Option A (by Contractor) YES			
10.21 - Protection of the works [clause 9.1]			
10.22 - Protection/isolation of existing/sectionally occupied works [clause 9.2] Protection/isolation is required			
10.23 - Disturbance [clause 9.5]			
10.24 - Environmental disturbance [clause 9.6]			
Post tender information (B12.2)			
10.25 Payment of preliminaries Alternative selected:			
<b>Carried Forward</b>		R	
Section No. 1			
Bill No. 1			
PRELIMINARIES			
<b>DBSA</b>			

	<b>Brought Forward</b>		R	
	10.26 Adjustment of preliminaries Alternative selected:			
	10.27 Additional agreed preliminaries items			
	<b><u>SECTION C - SPECIFIC PRELIMINARIES</u></b>			
98	Site instructions 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 F:..... V:..... T:.....	Item		
99	Warranties for material 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 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 warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion 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 to do so. The warranty 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 F:.....V:.....T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
100	Co-operation of 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 final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors F:.....V:.....T:.....	Item		
101	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		
102	Agreement: Code of conduct for Contractors The Contractor must comply with the agreement: Code of Conduct for Contractors, as per DBSA requirements F:..... V:..... T:.....	Item		
103	Rules and Regulations The Contractor must comply with the Rules and Regulations (as per DBSA requirements) F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

## Brought Forward

R

Item

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
PRELIMINARIES  
DBSA

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		R	
106	C13 HIV/AIDS AwarenessIt is required of the contractor to thoroughly study the HIV/AIDS Specification (HIV 1 to HIV 4) of the Department of Public Works, which must be read together with and is deemed to be incorporated under this section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under C13.1 to C13.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertainedThe contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the F:..... V:..... T:.....	Item		
107	C13.1 Awareness Champion Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item		
108	C13.3 Posters, Booklets, Videos, etc.Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the F:..... V:..... T:.....	Item		
109	C13.4 Access to condoms Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenish male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 Bill No. 1 PRELIMINARIES <b>DBSA</b>			

## Brought Forward

R

110	<p>C13.5 Monitoring Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period, all in accordance with the HIV/AIDS Specification.</p> <p>F..... V..... T.....</p>
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Item

111 C14 Occupational Health and Safety Act No. 85 of 1993  
Bidders are to allow for costs in providing a  
"Construction Phase Safety, Health and Environmental  
Plan". Bidders are further reminded that it is their  
responsibility to amend their safety plan if the assessed  
risk of the work changes in the slightest manner.  
F..... V..... T.....

Item

## SUMMARY OF CATEGORIES

Category :

Fixed R.....

Category:

Value R.....

Category:

Time R.....

**Carried to Final Summary**

R

Section No. 1  
Bill No. 1  
PRELIMINARIES  
**DBSA**



**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>			R
	Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately			
	Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc			
	Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc			
	With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork			
	Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary			
	The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)			
	<b><u>REMOVAL OF EXISTING WORK</u></b>			
	<b><u>Breaking up and removing unreinforced concrete</u></b>			
1	Unreinforced concrete stormwater channels not exceeding 1500mm wide and not exceeding 200mm thick.	m3	101	
	<b><u>Breaking down and removing brickwork etc</u></b>			
2	One brick walls in beam filling.	m2	291	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 1 ALTERATIONS <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	Brought Forward			R
	<b><u>Taking out and removing doors, windows, etc, including thresholds, sills, etc and making good cement plaster into reveals, lintel and cill</u></b>			
3	Timber single door and frame 813 x 2032mm high overall from one brick wall.	No	39	
	<b><u>Taking down and removing roofs, etc</u></b>			
4	Take down and remove existing asbestos roof coverings in trusses, etc. complete	m2	2,838	
5	Take down and remove existing asbestos gutters including cart away from site.	m	900	
6	Take down and remove existing fascia boards complete	m	569	
7	Take down and remove existing barge boards complete	m	178	
	<b><u>Taking down and removing ceilings, etc</u></b>			
8	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m	1,804	
	<b><u>Taking out and removing ironmongery</u></b>			
9	Mortice lockset from timber door	No	39	
	<b>Carried Forward</b>			R
Section No. 2 Bill No. 1 ALTERATIONS <b>DBSA</b>				

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>			<b>R</b>
	<b><u>Hacking up/off and removing loose plaster, etc from for new plaster, etc</u></b>			
10	Internal plaster from walls	m2	394	
11	External plaster from walls	m2	394	
	<b><u>Taking out/off and removing glass</u></b>			
12	Glass from steel windows, including cleaning out rebates preparing for new glass	m2	394	
	<b><u>MAKING GOOD OF FINISHES ETC</u></b>			
	<b><u>Making good internal cement plaster</u></b>			
13	Walls in patches	m2	394	
	<b><u>Making good external cement plaster</u></b>			
14	Walls in patches	m2	394	
	<b><u>Making good facebrick</u></b>			
15	Allow for Jet Cleaning and applying new brick dressing	m2	400	
	<b>Carried Forward to Summary of Section No. 2</b>			<b>R</b>
	Section No. 2			
	Bill No. 1			
	ALTERATIONS			
	<b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 2: MASONRY</u></b>			
	<u>For preambles refer to "Model Preambles for Trades 2008"</u>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>BRICKWORK</u></b>			
	<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>Bagged and sealed walls</u>			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating.			
	<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			
	<b><u>BLOCKWORK</u></b>			
	<u>Concrete masonry units</u>			
	Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa			
	<b>Carried Forward</b>		R	
	Section No. 2 Bill No. 2 MASONRY <b>DBSA</b>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Wall ties for blockwork</u></p> <p>Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other</p> <p><u>Blockwork</u></p> <p>Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"</p> <p>Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.</p> <p><u>Standard complementary blocks</u></p> <p>Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary</p> <p><b><u>DECORATIVE BLOCKS</u></b></p> <p>Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour</p> <p><b><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></b></p> <p><b><u>BRICKWORK</u></b></p>	<p style="text-align: center;">R</p>
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 2 MASONRY <b>DBSA</b></p>	<p style="text-align: center;">R</p>

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Brought Forward			R
<b><u>SUPERSTRUCTURE</u></b>			
<b><u>Brickwork of NFP bricks in class II mortar</u></b>			
1	One brick walls in beamfilling	m2	284
<b><u>BRICKWORK SUNDRIES</u></b>			
2	Forming toothings and bonding new brickwork to existing	m2	202
<b><u>2,5mm Brickwork reinforcement</u></b>			
3	150mm wide reinforcement	m	836
<b><u>Facebrick to brickwork in horizontal stretcher bond pointed with recessed horizontal and vertical joints.</u></b>			
4	Extra over for facebrick to match existing	m2	284.00
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 2			
MASONRY			
DBSA			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 3</u></b>			
	<b><u>ROOF COVERINGS, CLADDINGS, ETC</u></b>			
	<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,80mm Thick "Safintra" Aluminium G4 Colortech Widedek profile roof sheeting, fixed to intermediate timber purlins at 1400mm centres and to ridge and eaves purlins at 1050mm centres, with 12 x 55mm long Fixtite® or Safintra approved Hex Head self-drilling screws at every second crest at intermediate purlins and every crest at eaves purlins all in accordance with the manufacturer's recommendations</u></b>			
1	Roof covering with pitches not exceeding 25 degrees	m2	2,838	
2	Standard galvanised ridge capping screwed through sheeting to purlin	m	284	
3	Sondor IBR Pattern Polyclosure to undersides on ridge capping	m	569	
4	Chromadeck metal closure	m	570	
	<b><u>ROOF AND WALL INSULATION</u></b>			
	<b><u>Sisalation 420 heavy industrial grade aluminium foil based insulation</u></b>			
5	Insulation cut to size and laid taut over purlins within ensure complete coverage	m2	2,838	
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	Section No. 2			
	Bill No. 3			
	ROOF COVERINGS			
	<b>DBSA</b>			



**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>			R	
	<b><u>SA Pine</u></b>				
2	38 x 76mm Wall plates	m	568.60		
3	76 x 114mm purlins including additional support for trusses and hurricane clips, etc.	m	4,713		
4	76 x 114mm false timber to be fixed on trusses for barge board purlins	m	178		
5	38 x 76mm bracing	m	368		
	<b><u>EAVES, VERGES, ETC</u></b>				
	<b><u>Marley' PVC fascia boards</u></b>				
6	12 x 225mm Fascia boards including H-profile jointing strips	m	569		
	<b><u>Marley' PVC socketless barge boards</u></b>				
7	12 x 200 x 800mm high Barge boards including H-profile jointing strips	m	177.60		
	<b><u>DOORS ETC</u></b>				
	<b>Carried Forward</b>			R	
	Section No. 2 Bill No. 4 CARPENTRY AND JOINARY <b>DBSA</b>				

Brought Forward		R
<b><u>TDM Hardwood BB doors hung to steel frames</u></b>		
8	40mm Framed, ledged and braced batten door 813 x 2032mm high of 40 x 150mm wide double top rail and stiles, 20 x 150mm middle ledge and braces and 20 x 225mm double bottom ledge, filled in with 20mm tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint	No 39
<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2  Bill No. 4  CARPENTRY AND JOINARY  <b>DBSA</b></p>		R

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 5</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
	<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be 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 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
	<u>Ceilings</u>			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	<b><u>NAILED-UP CEILINGS</u></b>			
	<b><u>6mm "Everite Nutec" fibre-cement flush boards with steel jointing strips</u></b>			
1	Ceilings including 38 x 38mm sawn softwood bandering at 450mm centres in both directions	m2	1,803	
2	Extra-over for 600 x 600mm trap door including sawn fitted flush with ceiling	No	10	
	<b><u>"Everite Nutec" fibre-cement cornices</u></b>			
3	50 x 19mm angle rounded cornice	m	1,500	
	<b>Carried Forward</b>			
	Section No. 2 Bill No. 5 CEILINGS, PARTITIONS AND ACCESS FLOORING <b>DBSA</b>		R	

Brought Forward					
<b><u>INSULATION</u></b>					
<b><u>Non-combustible polyester thermal insulation of a density of not less than 10kg/m3</u></b>					
4	100mm Insulation in blanket form closely fitted and laid between roof timbers etc.	m2	1,803		R
<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2  Bill No. 5  CEILINGS, PARTITIONS AND ACCESS FLOORING  <b>DBSA</b></p>					R

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 6</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Proprietary items</u>			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderer's wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<b><u>HINGES, BOLTS, ETC</u></b>			
1	50 x 25mm LD Polished barrel bolt	No	39	
	<b><u>LOCKS</u></b>			
	<b><u>Union</u></b>			
2	Union profile double cylinder lockset	No	39	
3	MG47 47mm Padlock	No	39	
	<b>Carried Forward</b>			
	Section No. 2 Bill No. 6 IRONMONGERY <b>DBSA</b>		R	

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

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**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

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**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No		Quantity	Rate	Amount
<b><u>BILL NO. 9</u></b>				
<b><u>PLUMBING AND DRAINAGE</u></b>				
<b><u>(PROVISIONAL)</u></b>				
<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>				
<u>Wire gratings</u>				
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings				
<u>Stormwater channels</u>				
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site				
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>Aluminium seamless gutters and rainwater pipes</u></b>				
1	150 x 150 x 0.6mm thick aluminium seamless gutters including silicon mastic	m	569	
2	100 x 75 x 0.6mm thick rectangular fluted rainwater down at 1000mm centres	m	332	
3	Extra over 100mm eaves gutter for outlet including boring 100 x 75mm hole through gutter	No	92	
4	Extra over gutter for drop box suitable for 155 x 100mm box gutter	No	92	
5	Extra over rainwater pipe for bend	No	184	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 9 PLUMBING AND DRAINAGE <b>DBSA</b>				

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Brought Forward			R
6	Extra over 100 x 75mm rainwater pipe for shoe	m	92
7	Extra over gutter for stopped end	No	36
<b><u>STORMWATER DRAINAGE</u></b>			
<b><u>25Mpa/19mm Concrete</u></b>			
8	1000 x 150mm Concrete stormwater channel with 600 grading, carting away, etc	m	220
9	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc	No	20
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 9			
PLUMBING AND DRAINAGE			
DBSA			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 11</u></b>			
<b><u>PAINTWORK</u></b>			
<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>			
<u>Previously painted plastered surfaces</u>			
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			
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>			
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use</u>			
1	Walls	m2	284
<b><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></b>			
Carried Forward			R
Section No. 2 Bill No. 11 PAINTWORK DBSA			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>			<b>R</b>
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use</u>			
2	Walls	m2	284	
	<b><u>ON WOOD SURFACES</u></b>			
	<u>One coat alkyd based universal undercoat and one coat superior quality universal enamel paint</u>			
	<u>Spot priming bare wood surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint</u>			
3	Roof timbers at eaves and verges	m2	368	
4	Barge boards and Facia boards	m2	224	
	<b><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u></b>			
	<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>			
	<u>Two coats alkyd based universal undercoat and one coat superior quality universal enamel paint</u>			
5	Walls	m2	3,961	
	<b><u>ON EXTERNAL FLOATED PLASTER SURFACES</u></b>			
	<u>Two coats superior quality acrylic emulsion paint for exterior use</u>			
6	Walls	m2	2,134	
<b>Carried Forward to Summary of Section No. 2</b>				<b>R</b>
Section No. 2				
Bill No. 11				
PAINTWORK				
<b>DBSA</b>				

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 12</u></b>			
	<b><u>PROVISIONAL SUMS</u></b>			
	<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>			
	<u>General</u>			
	Work for which budgetary allowances are provided will be measured and valued in accordance with the relevant building agreement, building contract, and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances			
	Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned			
	Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	<i>Refer hereunder to "nominated subcontractors" or "selected subcontractors" or both as the case may be and in accordance with the relevant building agreement (building contract)</i>			
	<i>Where "attendance" <u>is</u> defined in the relevant subcontract agreement/subcontract, the user is to refer thereto and is to ensure that the designations therein are used. Where "attendance" <u>is not</u> defined in the relevant subcontract agreement/subcontract, the user is to provide a detailed description of the "attendance" required from the contractor</i>			
	<b>Carried Forward</b>		R	
	Section No. 2 Bill No. 12 PROVISIONAL SUMS <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>		R	
<u>General attendance on nominated/selected subcontractors</u>			
<i>Use the following descriptions where the JBCC N/S Subcontract Agreement is applicable</i>			
The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement			
<u>Special attendance on nominated/selected subcontractors</u>			
Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, craneage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements			
<u>Builder's work</u>			
Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
<b><u>PARKHOMES</u></b>			
1	Provide the sum of R200 000.00 for Parkhomes	Item	200,000.00
2	Profit	%	
3	Attendance	%	
<b><u>ASBESTOS REMOVAL</u></b>			
4	Provide the sum of R 500 000.00 for taking out and removing Asbestos roof sheeting including capping, flashings etc	Item	500,000.00
5	Profit	%	
<b>Carried Forward</b>		R	
Section No. 2 Bill No. 12 PROVISIONAL SUMS <b>DBSA</b>			



**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

SECTION SUMMARY - BUILDING WORKS					
Bill No		Page No		Amount	
1	ALTERATIONS	27			
2	MASONRY	30			
3	ROOF COVERINGS	31			
4	CARPENTRY AND JOINARY	34			
5	CEILINGS, PARTITIONS AND ACCESS FLOORING	36			
6	IRONMONGERY	38			
7	METALWORK	39			
8	PLASTERING	40			
9	PLUMBING AND DRAINAGE	42			
10	GLAZING	43			
11	PAINTWORK	45			
12	PROVISIONAL SUMS	48			
Carried to Final Summary			R		
Section No. 2					
DBSA					

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 1</u></b>			
	<b><u>GENERAL SITEWORKS</u></b>			
	<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>			
	<b><u>GENERAL</u></b>			
1	Allow for watering the works by spraying to prevent any nuisance from dust, etc., and supply, erect and remove at completion all temporary dust screens, etc., required	Item		
2	Allow for protecting all existing work liable to suffer damage from damage during the building operations, alterations, etc., and make good all work damaged with new material to match existing to the approval of the Principal Agent.	Item		
	<b><u>TEMPORARY BARRIERS, SCREENS, ETC.</u></b>			
	<u>Temporary barriers, screens, etc.</u>			
3	1800mm High IBR sheeting fixed to timber or gum pole posts, bearers, etc.	m	120	
4	Extra over for single gate 1000 x 2100mm high, including steel frame, padlock, etc.	No	1	
5	Extra over for double gate 6000 x 2100mm high, including steel frame, padlock, etc.	No	1	
6	Allow for directional safety, regulatory signage, etc. to barriers, screens, etc.	Item		
7	Allowance for removal of hoarding, gate, etc. and making good areas disturbed.	Item		
	<b><u>SITE CLEARENCE</u></b>			
8	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth.	m2	120	
9	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site.	m2	120	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3			
	Bill No. 1			
	GENERAL SITEWORKS			
	<b>DBSA</b>			
			R	

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

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**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

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**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Bill No	SECTION SUMMARY - EXTERNAL WORKS (PROVISIONAL)	Page No	Amount
1	GENERAL SITEWORKS	50	
2	STORMWATER DRAINAGE	51	
3	WATER SUPLLIES	52	
Carried to Final Summary			R
Section No. 3 DBSA			

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 1</u></b>			
	<b><u>ELECTRICAL WORK PRELIMINARIES</u></b>			
	<b><u>For preambles refer to "Model Preambles for Trades 2008"</u></b>			
	<u>Specifications, drawings, etc</u>			
	Tenderers are referred to the specification and drawings numbered prepared by Impande Consulting Engineers, annexed to these bills of quantities (accompanying these bills of quantities) for the electrical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings			
	<u>Distribution boards etc</u>			
	Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings			
	<u>Switches, socket outlets, etc</u>			
	Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates			
	<u>Light fittings</u>			
	Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described			
	<b><u>PRELIMINARIES AND GENERAL</u></b>			
1	Allow an amount for Electrical Preliminaries (Provisional Sum)	Item		30,000.00
2	Profit		%	
			R	
	<b>Carried Forward</b>			
	Section No. 4 Bill No. 1 PRELIMINARIES AND GENERAL <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>			R
3	Attendance		%
	<b><u>Community Liaison Officer</u></b>		
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	
	<b>MINIMUM TARGETED ENTERPRISE DEVELOPMENT</b>		
6	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.	PS	242 394.61
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.	%	
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4			
Bill No. 1			
PRELIMINARIES AND GENERAL			
<b>DBSA</b>			



**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>				R
<p><u>Note:</u> Drilling of structure is not permitted without the prior approval of the Engineer. Any drilling of the structure without approval of the Engineer will result in the cost of all necessary remedial work and/or replacement of structural members to be charged to the contractor's account. The above also applies to HILTI shot type fittings</p> <p>Supply and install conduit boxes for 20mm conduit with 1,2,3 or 4 way side entries, and or black entry including conduit connection. Allow to be made for chasing of boxes on wall surface.</p>				
<b><u>ROUND BOXES</u></b>				
2	60mm PVC.	No	207	
<b><u>PVC WIRING CONDUCTORS</u></b>				
Supply and install PVC insulated copper conductors as specified drawn into conduit.				
3	1.5mm <sup>2</sup> (red)	m	3,690	
4	1.5mm <sup>2</sup> (black)	m	3,450	
5	2.5mm <sup>2</sup> (green)	m	3,450	
<b><u>LIGHT SWITCHES - Carbtree Crystal Range</u></b>				
Supply and install 240 Volt flush mounted light switch complete with PVC cover plate and all fixings. Price to include for engraving on cover plate and conduit boxes				
<b>Carried Forward</b>				R
Section No. 4 Bill No. 2 LIGHTING REQUIREMENTS <b>DBSA</b>				

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	<b>Brought Forward</b>		<b>R</b>
6	16 Amp 1 Lever 1 way.	No	55
7	16 Amp 1 Lever 2 way.	No	4
<b><u>LIGHT FITTINGS</u></b>			
The supply, installation and termination of luminaries as indicated on the drawings and specification. All fittings shall be indicated on the drawings and specification. All shall be as indicated in the luminaries schedule. All fluorescent shall have cool white lamps.			
<b>NOTE :</b> All ceiling flush mounted fittings to have a 5 A SSO for supply connection.			
8	Type "b" ( 2 x 36 W low brightness fluorescent)	No	28
9	Type "f" ( 2 x 58 W Open Channel )	No	116
10	Type "g" (2 x 36 W prismatic fluorescent)	No	6
11	Type "e" ( 1 x 26 W Bulkhead)	No	74
12	Type "c" ( 2 x 36 W moisture proof fluorescent)	No	13
13	Type "l"( 2PL9 bulkhead fluorescent)	No	9
<b>Carried Forward</b>			
Section No. 4 Bill No. 2 LIGHTING REQUIREMENTS <b>DBSA</b>			<b>R</b>

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

<b>Brought Forward</b>			<b>R</b>
<b><u>Small Power Requirements</u></b>			
Supply, install, connect, test and commission the complete small power installation as described in the specification and as described below:			
 <b><u>CONDUIT</u></b>			
Flush mounted PVC conduit chased to walls. The price is to include for cutting, bending ,setting ,joining, and any other materials necessary for the successful completion of the installation.			
14	25 mm DIA PVC conduit	m	650
15	20 mm DIA PVC conduit	m	1,400
16	32 mm DIA PVC conduit	m	500
<u>Note:</u> Drilling of structure is not permitted without the prior approval of the Engineer. Any drilling of the structure without approval of the Engineer will result in the cost of all necessary remedial work and/or replacement of structural members to be charged to the contractor's account. The above also applies to HILTI shot type fittings			
<b><u>WIRING</u></b>			
Supply and installation of PVC copper conductors as specified drawn into conduit.			
<b>Carried Forward</b>			<b>R</b>
Section No. 4 Bill No. 2 LIGHTING REQUIREMENTS <b>DBSA</b>			

## INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE

Brought Forward			R
17	2.5 mm <sup>2</sup> (red)	m	3,570
18	2.5 mm <sup>2</sup> (black)	m	3,350
19	4 mm <sup>2</sup> (green)	m	3,130
20	4 mm <sup>2</sup> (red)	m	80
21	4 mm <sup>2</sup> (black)	m	80
22	6 mm <sup>2</sup> (green)	m	900
<b><u>CONDUIT BOXES</u></b>			
Supply and install conduit boxes for 20mm conduit with 1, and or back entry including conduit connection.Allowance to be made for chasing of			
<b><u>ROUND BOXES</u></b>			
23	60mm PVC.	m	100
<b><u>METAL POWER SKIRTING</u></b>			
Supply and install 2-compartment power skirting complete with accessories and all fixings, as per specification and detailed on drawings.			
24	2-compartment power skirting	m	120
<b><u>POWER SKIRTING OUTLETS AS CRABTREE</u></b>			
25	Supply, install and connect power skirting 16 A switched socket outlet as per Specification	No	18
Carried Forward			R
Section No. 4 Bill No. 2 LIGHTING REQUIREMENTS <b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	Brought Forward		R
26	Supply and install power skirting punched coverplate complete with Cat.5 flush mounted RJ45 data outlets as per specification.	No	17
27	Supply and install power skirting coverplate with Cat.5 flush mounted RJ11 telephone outlet as per specification	No	5
	<b><u>SWITCHED SOCKET OUTLETS</u></b>		
	Supply and install 16 Amp 240 volt flush mounted complete with all fixings in conduit box as well as the socket outlet box and cover.		
28	Single, 16 Amp, 3-pin, flush mounted outlet	No	68
29	Double, 16 Amp, 3-pin, flush mounted outlet	No	2
	<b><u>ISOLATORS</u></b>		
30	1-phase, 30 A flush mounted hydroboil isolator	No	1
	<b><u>MAIN POWER REQUIREMENTS</u></b>		
	<b><u>DISTRIBUTION BOARDS</u></b>		
	Supply , deliver, off load and install the following Distribution Boards and Telephone DB including equipment, pre-fitted in the factory complete all accessories. Installation shall include all fixings, earthing and conduit terminations as per the specification and drawings.		
	<b>NOTE:</b> LV DB shall include lightning protection and surge suppression equipment and shall be sized accordingly and the telephone DB shall include cardboard base		
31	DB-MAIN	Item	
	<b>Carried Forward</b>		R
	Section No. 4 Bill No. 2 LIGHTING REQUIREMENTS <b>DBSA</b>		

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

	Brought Forward		R	
32	DB-TEL	Item		
33	DB-KITCHEN	Item		
34	DB- BLOCK A	Item		
35	DB- BLOCK B	Item		
36	DB-BLOCK C	Item		
37	DB-BLOCK D	Item		
38	DB-BLOCK E	Item		
39	DB-BLOCK G	Item		
40	DB-COMP	Item		
41	DB-ABLUTION	Item		
	<b><u>PHOTOCELL</u></b>			
	Supply and install photo electric devices complete with accessories.			
42	Photocell	No	10	
	<b><u>EARTHING AND BONDING</u></b>			
43	Install general earthing and bonding for metal structures, drawings and specifications			
			SUM	
	<b><u>TESTING AND COMMISSIONING</u></b>			
44	Conduct testing and commissioning of the electrical installation in accordance with the drawings and specifications.			
			SUM	
	<b>Carried Forward to Summary of Section No. 4</b>		R	
	Section No. 4			
	Bill No. 2			
	LIGHTING REQUIREMENTS			
	<b>DBSA</b>			

**MZINGWENYA PRIMARY SCHOOL  
INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Item No			Quantity	Rate	Amount
	<b><u>BILL NO . 3</u></b>				
	<b><u>MAIN LV RETICULATION</u></b>				
	<b><u>ELECTRICAL CABLES ( ECC TYPE Cables)</u></b>				
	Supply and install the following cables running in ground, the sub distribution boards.				
1	10 mm <sup>2</sup> 2C PVC/SWA/ECC/Cu	m	150		
	<b><u>SLEEVES</u></b>				
	Supply and install below indicated sleeves and accessories. Sleeves to be buried in the ground where the electrical cabling crosses road surfaces.				
2	50 mm diameter	m	50		
	<b><u>CABLE TERMINATIONS</u></b>				
	Supply and install cable terminations complete with gland, lugs and other accessories.				
3	10 mm <sup>2</sup> 2C	No	10		
	<b><u>TRENCHING</u></b>				
	Allow for the trenching and installation of cable sleeves for running electrical cables between the main LV DB and sub-distribution boards.				
4	Trenching	m3	60		
	<b>Carried Forward to Summary of Section No. 4</b>				R
	Section No. 4				
	Bill No. 3				
	MAIN LV RETICULATION				
	<b>DBSA</b>				

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**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

Bill No	SECTION SUMMARY - ELECTRICAL INSTALLATION (PROVISIONAL)	Page No	Amount
1	PRELIMINARIES AND GENERAL	55	
2	LIGHTING REQUIREMENTS	62	
3	MAIN LV RETICULATION	63	
4	LIGHTNING PROTECTION	64	
<p>Section No. 4</p> <p><b>DBSA</b></p>			
<p>Carried to Final Summary</p>			R

**MZINGWENYA PRIMARY SCHOOL**  
**INFRASTRUCTURE DEVELOPMENT AND MAINTENANCE**

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