

TMT-DBE-23/24-SAFEOS-ECCL48

BILLS OF QUANTITIES

INDEX TO BILLS OF QUANTITIES

<u>Bill No</u>	<u>Page No</u>
SECTION NO. 1: MANZUZULU PRIMARY SCHOOL	1
1 PRELIMINARIES	2
Building Agreement And Preliminaries.	2
Section A: Jbcc Principal Building Agreement	3
Definitions	3
A1 Definitions And Interpretation.	3
Objective And Preparation	3
A2 Offer, Acceptance And Performance	3
A3 Documents	3
A4 Design Responsibility	3
A5 Employers Agents.	3
A6 Site Representative	3
A7 Compliance With Regulations	3
A8 Works Risk	3
A9 Indemnities	4
A10 Works Insurances.	4
A11 Liability Insurances	4
A12 Effecting Insurances	4
A14 Security	4
Execution	4
A15 Preperation For And Execution Of The Works.	4
A16 Access To The Works.	4
A17 Contract Instructions.	4
A18 Setting Out Of The Works.	5

A19 Assignment	5
A20 Nominated Sub-contractors	5
A21 Selected Subcontractors	5
A22 Employer's Direct Contractors	5
A23 Contractor's Domestic Subcontractors	5
Completion	5
A24 Practical Completion	5
A25 Work's Completion	5
A26 Final Completion	5
A27 Latent Defects Liability Period	6
A28 Sectional Completion	6
A29 Revision Of Date For Practical Completion	6
A30 Penalty For Non-completion	6
Payment	6
A31 Interim Payment To The Contractor	6
A32 Adjustment To The Contract Value	7
A33 Recovery Of Expense And Loss	7
A34 Final Account And Final Payment	7
A35 Payment To Other Parties	7
Cancellation	7
A36 Cancellation By Employer - Contractor's Default	7
A37 Cancellation By Employer - Loss And Damage	7
A38 Cancellation By Contractor - Employer's Default	7
A39 Cancellation - Cessation Of The Works	7
Dispute	7
A40 Dispute Settlement	7

Substitute Provisions	7
A41 State Clauses.....	7
Contract Variables.....	8
The Schedule (C1.2 Contract Data)	8
A42 Pre-tender Information	8
Section B: Jbcc Preliminaries.....	8
B1.0 Definitions And Interpretation.....	8
B2.0 Documents	8
B3.0 The Site.....	9
B4.0 Management Of Contract	9
B5.0 Samples, Shop Drawings And Manufacturers' Instructions.....	10
B6.0 Temporary Works And Plant	10
B7.0 Temporary Services	11
B8.0 Prime Cost Amounts.....	11
9.0 Attendance On N/s Subcontractors.....	11
B10.0 Financial Aspects	12
B11. General	12
Section C: Specific Preliminaries	13
C1 Contract Drawings	13
C2 General Preambles	13
C3 Proprietary Branded Products	13
C4 Contractor's Responsibility	14
C5 Overtime	14
C6 As Built Drawings.....	14
C7 Contract Instructions.....	14
C8 Labour Record.....	15

C9 Plant Record	15
C10 Encroachment	15
C11 Method Statement	15
C12 Unauthorised Persons/workmen On Premises	15
C13 Mode Of Procedure	15
C14 Location Of Temporary Buildings And Temporary Services	16
C15 Office Accommodation	16
C16 Storage Facilities	16
C17 Removal And Making Good Of Temporary Works, Etc, On Completion	16
2 HEALTH AND SAFETY.....	18
Model Preambles	18
Supplementary Preambles.....	18
Occupational Health And Safety.....	18
3 RENOVATIONS	21
Supplementary Preambles.....	21
Making Good Of Existing Work.....	21
Concrete Sundries.....	22
Eaves, Verges, Etc	22
Bathroom Fittings	22
Rainwater Disposal	22
Tap Stands.....	22
Sanitary Plumbing.....	22
Preambles	23
4 GARDEN AND BALUSTRADE WALLS	25
Preambles	25
Earthworks (Provisional)	25

Concrete, Formwork & Reinforcement	26
Expansion Joints:	26
Test Cubes	26
Masonry	26
Facings Externally:	26
Painting	26
5 V-DRAINS	28
Preambles	28
Supplementary Preambles	28
Excavation Etc	29
Filling Etc Other Than Bulk	29
Dampproofing Of Walls And Floors	29
Stormwater Drainage (Provisional)	29
Test Cubes	30
Reinforcement (Cpap Work Group No. 114)	30
6 CONCRETE WALKWAYS & RAMPS	32
Preambles	32
Earthworks (Provisional)	32
Concrete, Formwork & Reinforcement	33
Expansion Joints:	33
Test Cubes	33
Smooth Formwork (Degree Of Accuracy ii) (Cpap Work Group No. 111)	33
Reinforcement (Cpap Work Group No. 114)	33
Dampproofing Of Walls And Floors	33
7 SOAKAWAYS & CULVERTS	35
Preambles	35

Supplementary Preambles	35
Culverts	35
The Following In Stormwater Soakaways	36
The Following In Headwalls And Stormwater Dissipaters	36
8 GRADE R FENCING	40
Preambles	40
The Following In Security Fencing	40
9 SCREEN WALLS	44
Preambles	44
Earthworks (Provisional)	44
Concrete, Formwork & Reinforcement	44
Test Cubes	45
Masonry	45
Facings Externally:	45
Painting	45
10 PROVISIONAL SUMS	47
Provisional Sums	47
Budgetary Allowances	47
Budgetary Allowances	47
SECTION SUMMARY	48
SECTION NO. 2: NOTHINTSI JUNIOR SECONDARY SCHOOL	49
1 PRELIMINARIES	50
Building Agreement And Preliminaries.	50
Section A: Jbcc Principal Building Agreement	51
Definitions	51
A1 Definitions And Interpretation.	51

Objective And Preparation	51
A2 Offer, Acceptance And Performance	51
A3 Documents	51
A4 Design Responsibility	51
A5 Employers Agents.	51
A6 Site Representative	51
A7 Compliance With Regulations	51
A8 Works Risk	51
A9 Indemnities	52
A10 Works Insurances.	52
A11 Liability Insurances	52
A12 Effecting Insurances	52
A14 Security	52
Execution	52
A15 Preperation For And Execution Of The Works.	52
A16 Access To The Works.	52
A17 Contract Instructions.	52
A18 Setting Out Of The Works	53
A19 Assignment	53
A20 Nominated Sub-contractors.	53
A21 Selected Subcontractors	53
A22 Employer's Direct Contractors	53
A23 Contractor's Domestic Subcontractors	53
Completion	53
A24 Practical Completion.	53
A25 Work's Completion	53

A26 Final Completion.	53
A27 Latent Defects Liability Period	54
A28 Sectional Completion	54
A29 Revision Of Date For Practical Completion.	54
A30 Penalty For Non-completion.	54
Payment.	54
A31 Interim Payment To The Contractor	54
A32 Adjustment To The Contract Value.	55
A33 Recovery Of Expense And Loss.	55
A34 Final Account And Final Payment.	55
A35 Payment To Other Parties.	55
Cancellation	55
A36 Cancellation By Employer - Contractor's Default	55
A37 Cancellation By Employer - Loss And Damage	55
A38 Cancellation By Contractor - Employer's Default	55
A39 Cancellation - Cessation Of The Works	55
Dispute.	55
A40 Dispute Settlement	55
Substitute Provisions	55
A41 State Clauses.	55
Contract Variables.	56
The Schedule (C1.2 Contract Data)	56
A42 Pre-tender Information	56
Section B: Jbcc Preliminaries.	56
B1.0 Definitions And Interpretation.	56
B2.0 Documents	56

B3.0 The Site	57
B4.0 Management Of Contract	57
B5.0 Samples, Shop Drawings And Manufacturers' Instructions.....	58
B6.0 Temporary Works And Plant	58
B7.0 Temporary Services	59
B8.0 Prime Cost Amounts.....	59
9.0 Attendance On N/s Subcontractors.....	59
B10.0 Financial Aspects	60
B11. General	60
Section C: Specific Preliminaries	61
C1 Contract Drawings	61
C2 General Preambles	61
C3 Proprietary Branded Products	61
C4 Contractor's Responsibility	62
C5 Overtime	62
C6 As Built Drawings.....	62
C7 Contract Instructions.....	62
C8 Labour Record.....	63
C9 Plant Record	63
C10 Encroachment	63
C11 Method Statement	63
C12 Unauthorised Persons/workmen On Premises	63
C13 Mode Of Procedure	63
C14 Location Of Temporary Buildings And Temporary Services	64
C15 Office Accommodation	64
C16 Storage Facilities	64

C17 Removal And Making Good Of Temporary Works, Etc, On Completion	64
2 HEALTH AND SAFETY.	66
Model Preambles	66
Supplementary Preambles.	66
Occupational Health And Safety	66
3 RENOVATIONS	69
Preambles	69
Supplementary Preambles.	69
Demolitions	69
Making Good Of Existing Work	70
Eaves, Verges, Etc	71
Bathroom Fittings	71
Galvanised Steel Gates, Screens, Etc.	71
Sanitary Fittings	71
Traps Etc	71
Tap Stands.	72
Sanitary Plumbing	72
4 GARDEN AND BALUSTRADE WALLS	74
Preambles	74
Earthworks (Provisional)	74
Concrete, Formwork & Reinforcement	75
Expansion Joints:	75
Test Cubes	75
Masonry	75
Facings Externally:	75
Painting	75

5 V – DRAINS	77
Preambles	77
Supplementary Preambles	77
Excavation Etc	78
Filling Etc Other Than Bulk	78
Dampproofing Of Walls And Floors	78
Stormwater Drainage (Provisional)	78
Test Cubes	79
Reinforcement (Cpap Work Group No. 114)	79
6 CONCRETE APRONS, WALKWAYS & RAMPS	81
Preambles	81
Earthworks (Provisional)	81
Concrete, Formwork & Reinforcement	82
Expansion Joints:	82
Test Cubes	82
Smooth Formwork (Degree Of Accuracy ii) (Cpap Work Group No. 111)	82
Reinforcement (Cpap Work Group No. 114)	82
Dampproofing Of Walls And Floors	83
7 GRADE R FENCING	85
Preambles	85
The Following In Security Fencing	85
8 PROVISIONAL SUMS	89
Provisional Sums	89
Budgetary Allowances	89
SECTION SUMMARY	90
SECTION NO. 3: NYWARA PRIMARY SCHOOL	91

1 PRELIMINARIES	92
Building Agreement And Preliminaries.	92
Section A: Jbcc Principal Building Agreement	93
Definitions	93
A1 Definitions And Interpretation.	93
Objective And Preparation	93
A2 Offer, Acceptance And Performance	93
A3 Documents	93
A4 Design Responsibility	93
A5 Employers Agents.	93
A6 Site Representative	93
A7 Compliance With Regulations	93
A8 Works Risk	93
A9 Indemnities	94
A10 Works Insurances.	94
A11 Liability Insurances.	94
A12 Effecting Insurances.	94
A14 Security	94
Execution	94
A15 Preperation For And Execution Of The Works.	94
A16 Access To The Works.	94
A17 Contract Instructions.	94
A18 Setting Out Of The Works.	95
A19 Assignment	95
A20 Nominated Sub-contractors.	95
A21 Selected Subcontractors.	95

A22 Employer's Direct Contractors	95
A23 Contractor's Domestic Subcontractors	95
Completion	95
A24 Practical Completion.	95
A25 Work's Completion	95
A26 Final Completion.	95
A27 Latent Defects Liability Period	96
A28 Sectional Completion	96
A29 Revision Of Date For Practical Completion.	96
A30 Penalty For Non-completion.	96
Payment.	96
A31 Interim Payment To The Contractor	96
A32 Adjustment To The Contract Value.	97
A33 Recovery Of Expense And Loss.	97
A34 Final Account And Final Payment.	97
A35 Payment To Other Parties.	97
Cancellation	97
A36 Cancellation By Employer - Contractor's Default	97
A37 Cancellation By Employer - Loss And Damage	97
A38 Cancellation By Contractor - Employer's Default	97
A39 Cancellation - Cessation Of The Works	97
Dispute.	97
A40 Dispute Settlement	97
Substitute Provisions	97
A41 State Clauses.	97
Contract Variables.	98

The Schedule (C1.2 Contract Data)	98
A42 Pre-tender Information	98
Section B: Jbcc Preliminaries	98
B1.0 Definitions And Interpretation.	98
B2.0 Documents	98
B3.0 The Site	99
B4.0 Management Of Contract	99
B5.0 Samples, Shop Drawings And Manufacturers' Instructions.	100
B6.0 Temporary Works And Plant	100
B7.0 Temporary Services	101
B8.0 Prime Cost Amounts.	101
9.0 Attendance On N/s Subcontractors.	101
B10.0 Financial Aspects	102
B11. General	102
Section C: Specific Preliminaries	103
C1 Contract Drawings	103
C2 General Preambles	103
C3 Proprietary Branded Products	103
C4 Contractor's Responsibility	104
C5 Overtime	104
C6 As Built Drawings.	104
C7 Contract Instructions	104
C8 Labour Record	105
C9 Plant Record	105
C10 Encroachment	105
C11 Method Statement	105

C12 Unauthorised Persons/workmen On Premises	105
C13 Mode Of Procedure	105
C14 Location Of Temporary Buildings And Temporary Services	106
C15 Office Accommodation	106
C16 Storage Facilities	106
C17 Removal And Making Good Of Temporary Works, Etc, On Completion	106
2 HEALTH AND SAFETY.	108
Model Preambles	108
Supplementary Preambles.	108
Occupational Health And Safety	108
3 RENOVATIONS	111
Preambles	111
Supplementary Preambles.	111
Removal Of Existing Work	111
Making Good Of Existing Work	111
Bathroom Fittings	112
Galvanised Steel Gates, Screens, Etc.	113
Sanitary Fittings	113
Tap Stands	113
4 ROOF REPAIRS.	115
Brickwork In Superstructure	115
Face Brickwork	115
Profiled Metal Sheeting And Accessories.	115
Carpentry And Joinery	115
Roof Construction Etc	116
Eaves, Verges, Etc	116

Internal Plaster	116
Supplementary Preambles	116
Rainwater Disposal	117
Sanitary Plumbing	117
On New Fibre-cement Board Surfaces	117
On New Wood Surfaces	117
On Existing External Floated Plaster Surfaces	117
On Existing Wood Surfaces	117
5 GARDEN AND BALUSTRADE WALLS	119
Preambles	119
Earthworks (Provisional)	119
Concrete, Formwork & Reinforcement	120
Expansion Joints:	120
Test Cubes	120
Masonry	120
Facings Externally:	120
Painting	120
6 V – DRAINS	122
Preambles	122
Supplementary Preambles	122
Excavation Etc	123
Filling Etc Other Than Bulk	123
Dampproofing Of Walls And Floors	123
Stormwater Drainage (Provisional)	123
Test Cubes	124
Reinforcement (Cpap Work Group No. 114)	124

7 CONCRETE APRONS, WALKWAYS & RAMPS.	126
Preambles	126
Earthworks (Provisional)	126
Concrete, Formwork & Reinforcement	126
Test Cubes	127
Smooth Formwork (Degree Of Accuracy ii) (Cpap Work Group No. 111).	127
Reinforcement (Cpap Work Group No. 114)	127
Dampproofing Of Walls And Floors.	127
8 GRADE R FENCING.	129
Preambles	129
The Following In Security Fencing	129
9 PROVISIONAL SUMS.	133
Budgetary Allowances	133
Provisional Sums	133
SECTION SUMMARY.	134

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

Amount

SECTION NO. 1

MANZUZULU PRIMARY SCHOOL

BILL NO. 1

PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry.
2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.
3. The tenderor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause. The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.
4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.
5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.
6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.
7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.
8. Where any item is not relevant to this specific contract, such item is marked N/A.
9. 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 by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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Section No. 1

Bill No. 1

Preliminaries

			Amount
<u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u>			
<u>DEFINITIONS</u>			
<u>A1 DEFINITIONS AND INTERPRETATION</u>			
<u>Clause 1.0:</u>			
1	Fixed:_____ Value related:_____ Time related:_____0	Item	
<u>OBJECTIVE AND PREPARATION</u>			
<u>A2 OFFER, ACCEPTANCE AND PERFORMANCE</u>			
<u>Clause 2.0</u>			
2	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A3 DOCUMENTS</u>			
<u>Clause 3.0</u>			
Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'			
Clause 3.3 is deleted and substituted with:			
The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'			
3	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A4 DESIGN RESPONSIBILITY</u>			
<u>Clause 4.0</u>			
4	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A5 EMPLOYERS AGENTS</u>			
<u>Clause 5.0</u>			
5	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A6 SITE REPRESENTATIVE</u>			
<u>Clause 6.0</u>			
6	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A7 COMPLIANCE WITH REGULATIONS</u>			
7	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>Clause 7.0</u>			
8	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A8 WORKS RISK</u>			
<u>Clause 8.0</u>			
9	Fixed:_____ Value related:_____ Time related:_____	Item	
Carried to Collection		R	
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>A9 INDEMNITIES</u>			
<u>Clause 9.0</u>			
Clause 9.1.1 is deleted and substituted with:			
Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.			
10	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A10 WORKS INSURANCES</u>			
<u>Clause 10.0</u>			
11	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A11 LIABILITY INSURANCES</u>			
<u>Clause 11.0</u>			
12	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A12 EFFECTING INSURANCES</u>			
<u>Clause 12.0</u>			
13	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A13. No clause</u>			
14	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A14 SECURITY</u>			
<u>Clause 14.0</u>			
15	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>EXECUTION</u>			
<u>A15 PREPERATION FOR AND EXECUTION OF THE WORKS</u>			
<u>Clause 15.0</u>			
16	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A16 ACCESS TO THE WORKS</u>			
<u>Clause 16.0</u>			
17	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A17 CONTRACT INSTRUCTIONS</u>			
<u>Clause 17.0</u>			
18	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>A18 SETTING OUT OF THE WORKS</u>			
<u>Clause 18.0</u>			
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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out			
19	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A19 ASSIGNMENT</u>			
<u>Clause 19.0</u>			
20	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A20 NOMINATED SUB-CONTRACTORS</u>			
<u>Clause 20.0</u>			
21	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A21 SELECTED SUBCONTRACTORS</u>			
<u>Clause 21.0</u>			
22	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A22 EMPLOYER'S DIRECT CONTRACTORS</u>			
<u>Clause 22.0</u>			
23	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u>			
<u>Clause 23.0</u>			
24	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>COMPLETION</u>			
<u>A24 PRACTICAL COMPLETION</u>			
<u>Clause 24.0</u>			
25	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A25 WORK'S COMPLETION</u>			
<u>Clause 25.0</u>			
26	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A26 FINAL COMPLETION</u>			
<u>Clause 26.0</u>			
27	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>A27 LATENT DEFECTS LIABILITY PERIOD</u>			
<u>Clause 27.0</u>			
Clause 27.0 is amended by the addition of the following clauses:			
"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".			
"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"			
28	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A28 SECTIONAL COMPLETION</u>			
<u>Clause 28.0</u>			
29	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A29 REVISION OF DATE FOR PRACTICAL COMPLETION</u>			
<u>Clause 29.0</u>			
30	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A30 PENALTY FOR NON-COMPLETION</u>			
<u>Clause 30.0</u>			
31	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>PAYMENT</u>			
<u>A31 INTERIM PAYMENT TO THE CONTRACTOR</u>			
<u>Clause 31.0</u>			
The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.			
Where prices are submitted by the contractor or nominated/selected sub-contractor 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.			
32	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>A32 ADJUSTMENT TO THE CONTRACT VALUE</u>			
<u>Clause 32.0</u>			
33	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A33 RECOVERY OF EXPENSE AND LOSS</u>			
<u>Clause 33.0</u>			
34	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A34 FINAL ACCOUNT AND FINAL PAYMENT</u>			
<u>Clause 34.0</u>			
35	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A35 PAYMENT TO OTHER PARTIES</u>			
<u>Clause 35.0</u>			
36	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>CANCELLATION</u>			
<u>A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u>			
<u>Clause 36.0</u>			
37	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u>			
<u>Clause 37.0</u>			
38	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u>			
<u>Clause 38.0</u>			
39	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A39 CANCELLATION - CESSATION OF THE WORKS</u>			
<u>Clause 39.0</u>			
40	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>DISPUTE</u>			
<u>A40 DISPUTE SETTLEMENT</u>			
<u>Clause 40.0</u>			
41	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>SUBSTITUTE PROVISIONS</u>			
<u>A41 STATE CLAUSES</u>			
<u>Clause 41.0</u>			
42	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>CONTRACT VARIABLES</u>			
<u>THE SCHEDULE (C1.2 CONTRACT DATA)</u>			
<u>A42 PRE-TENDER INFORMATION</u>			
<u>Clause 42.0</u>			
Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract.			
43	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>SECTION B: JBCC PRELIMINARIES</u>			
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>			
<u>B1.1 Definitions and interpretation</u>			
44	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.0 DOCUMENTS</u>			
<u>B2.1 Checking of documents</u>			
Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
45	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.2 Provisional bills of quantities</u>			
Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
46	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.3 Availability of construction documentation</u>			
47	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.4 Interests of agents</u>			
48	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.5 Priced documents</u>			
49	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.6 Tender submission</u>			
Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.			
50	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>B3.0 THE SITE</u>			
<u>B3.1 Defined works area</u>			
The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.			
The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
51	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.2 Geotechnical investigation</u>			
52	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.3 Inspection of the site</u>			
53	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.4 Existing premises occupied</u>			
54	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.5 Previous work - dimensional accuracy</u>			
55	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.6 Previous work - defects</u>			
56	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.7 Services - known</u>			
57	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.8 Services - unknown</u>			
58	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.9 Protection of trees</u>			
59	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.10 Articles of value</u>			
60	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.11 Inspection of adjoining properties</u>			
61	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.0 MANAGEMENT OF CONTRACT</u>			
<u>B4.1 Management of the works</u>			
62	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>B4.2 Programme for the works</u>			
63	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.3 Progress meetings</u>			
64	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.4 Technical meetings</u>			
65	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.5 Labour and plant records</u>			
66	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
<u>B5.1 Samples of materials</u>			
67	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.2 Workmanship samples</u>			
68	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.3 Shop drawings</u>			
69	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.4 Compliance with manufacturers instructions</u>			
70	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
<u>B6.1 Deposits and fees</u>			
71	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.2 Enclosure of the works</u>			
The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.			
72	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.3 Advertising</u>			
73	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.4 Plant, equipment, sheds and offices</u>			
74	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.5 Main notice board</u>			
75	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
	<u>B6.6 Subcontractors' notice board</u>		
76	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.0 TEMPORARY SERVICES</u>		
	<u>B7.1 Location</u>		
77	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.2 Water</u>		
	The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
78	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.3 Electricity</u>		
	The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
79	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.4 Telecommunication facilities</u>		
	The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
80	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.5 Ablution facilities</u>		
	The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
81	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B8.0 PRIME COST AMOUNTS</u>		
	<u>B8.1 Responsibility for prime cost amounts</u>		
82	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
	<u>B9.1 General attendance</u>		
83	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B9.2 Special attendance</u>		
84	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B9.3 Commissioning - fuel, water and electricity</u>		
85	Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried to Collection	R	
	Section No. 1		
	Bill No. 1		
	Preliminaries		

			Amount
<u>B10.0 FINANCIAL ASPECTS</u>			
<u>B10.1 Statutory taxes, duties and levies</u>			
86	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.2 Payment for preliminaries</u>			
87	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.3 Adjustment of preliminaries</u>			
88	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.4 Payment certificate cash flow</u>			
89	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11. GENERAL</u>			
<u>B11.1 Protection of the works</u>			
90	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.2 Protection / isolation of existing / sectionally occupied works</u>			
91	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.3 Security of the works</u>			
92	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.4 Notice before covering work</u>			
93	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>11.5 Disturbance</u>			
94	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.6 Environmental disturbance</u>			
95	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.7 Works cleaning and clearing</u>			
96	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.8 Vermin</u>			
97	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.9 Overhand work</u>			
98	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.10 Instruction manuals and guarantees</u>			
99	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.11 As built information</u>			
100	Fixed: _____ Value related: _____ Time related: _____	Item	
		Carried to Collection	R
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
101	<u>B11.12 Tenant installations</u>		
	Fixed: _____ Value related: _____ Time related: _____	Item	
102	<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.		
103	<u>C1 CONTRACT DRAWINGS</u>		
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.	Item	
104	<u>C2 GENERAL PREAMBLES</u>		
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used.	Item	
104	<u>C3 PROPRIETARY BRANDED PRODUCTS</u>		
	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.	Item	
Carried to Collection			
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>C4 CONTRACTOR'S RESPONSIBILITY</u>			
The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved			
105	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C5 OVERTIME</u>			
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 the execution thereof, that costs for such overtime are to be borne by the employer.			
106	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C6 AS BUILT DRAWINGS</u>			
The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.			
Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion			
107	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C7 CONTRACT INSTRUCTIONS</u>			
Contract 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. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
a) Contract Instruction Book			
Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
Only instructions issued in such book shall be recognised.			
b) Daily Record Book			
The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
Carried to Collection			R
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
108	Fixed: _____ Value related: _____ Time related: _____ <u>C8 LABOUR RECORD</u> At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day	Item	
109	F: V: T: <u>C9 PLANT RECORD</u> 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, currently used on the works.	Item	
110	F: V: T: <u>C10 ENCROACHMENT</u> During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor	Item	
111	F: V: T: <u>C11 METHOD STATEMENT</u> The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.	Item	
112	F: V: T: <u>C12 UNAUTHORISED PERSONS/WORKMEN ON PREMISES</u> The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item	
113	F: V: T: <u>C13 MODE OF PROCEDURE</u> Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.	Item	
Carried to Collection			
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
114	Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost F: V: T: <u>C14 LOCATION OF TEMPORARY BUILDINGS AND TEMPORARY SERVICES</u> The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith	Item	
115	F: V: T: <u>C15 OFFICE ACCOMMODATION</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item	
116	F: V: T: <u>C16 STORAGE FACILITIES</u> The Contractor shall provide a Container for storage of materials.	Item	
117	F: V: T: <u>C17 REMOVAL AND MAKING GOOD OF TEMPORARY WORKS, ETC, ON COMPLETION</u> The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item	
118	F: V: T:	Item	
Carried to Collection			
Section No. 1			
Bill No. 1			
Preliminaries			

			Amount
<u>SECTION NO. 1</u> <u>MANZUZULU PRIMARY SCHOOL</u> <u>BILL NO. 1</u> <u>PRELIMINARIES</u> <u>COLLECTION</u>		Page No	
	Brought Forward from Page	2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	
		11	
		12	
		13	
		14	
		15	
		16	
	Carried To Section Summary	R	
Section No. 1			
Bill No. 1			
Preliminaries			

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u> <u>MANZUZULU PRIMARY SCHOOL</u> <u>BILL NO. 2</u> <u>HEALTH AND SAFETY</u> <u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. <u>SUPPLEMENTARY PREAMBLES</u> Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles. The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications. Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications. <u>OCCUPATIONAL HEALTH AND SAFETY</u> <u>General</u>				
1	Preparation of Contractor's site specific Health and Safety Plan	Item		
2	Submission of the Health and Safety File	Item		
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations	Item		
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period	Item		
5	Provision of full time Health and Safety Officer for the entire construction period	Item		
6	Induction training of all personnel	Item		
7	Provision of first aid boxes	Item		
Carried to Collection			R	
Section No. 1				
Bill No. 2				
Health And Safety				

	Unit	Quantity	Rate	Amount
8 SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150		
9 Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high	No	1		
<u>Provision for Personal Protective Equipment and</u>				
10 Reflective vests.	Item			
11 Hard hats	Item			
12 Protective footwear	Item			
13 Ear plugs	Item			
14 Dust masks	Item			
<u>Medical certificates and medical surveillance</u>				
15 Initial (baseline) medical examinations for all personnel	Item			
16 Exit Examinations for all personnel	Item			
<u>Noise Monitoring</u>				
17 Establishment of noise zones	Item			
18 Audiograms	Item			
<u>Covid-19 Compliance Measures</u>				
19 The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements	Item			
Carried to Collection			R	
Section No. 1				
Bill No. 2				
Health And Safety				

19

Amount

SECTION NO. 1

MANZUZULU PRIMARY SCHOOL

BILL NO. 2

HEALTH AND SAFETY

COLLECTION

Page No

Brought Forward from Page

18

19

Carried To Section Summary

R

Section No. 1

Bill No. 2

Health And Safety

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u> <u>MANZENZULU PRIMARY SCHOOL</u> <u>BILL NO. 3</u> <u>RENOVATIONS</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained <u>General</u> Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent <u>MAKING GOOD OF EXISTING WORK</u> <u>Making good VIP pedestals</u> 1 Secure loosely fitted pit pedestals by bolting down securely or applying an cement/ epoxy based industrial adhesive <u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u> 2 Damaged 90mm vent pipes				
	No	11		
	m	6		
Carried to Collection			R	
Section No. 1 Bill No. 3 Renovations				

		Unit	Quantity	Rate	Amount
	<u>CONCRETE SUNDRIES</u>				
	<u>Forming hole on 100mm thick reinforced concrete slabs</u>				
3	110mm Diameter holes for vent pipes (pipes measured elsewhere)	No	12		
	<u>EAVES, VERGES, ETC</u>				
	<u>Fibre-cement socketless barge boards</u>				
4	75 x 225mm Barge boards, including aluminium H-profile jointing strips etc	m	80		
	<u>BATHROOM FITTINGS</u>				
	<u>Stainless steel bathroom fittings</u>				
5	Free standing She Bin: manufactured from Grade 304 1,2mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity	No	7		
	<u>RAINWATER DISPOSAL</u>				
	<u>PVC-U gutters and rainwater pipes</u>				
6	110mm Half-round roof gutters	m	80		
7	90mm Diameter rainwater pipes	m	12		
8	Extra over gutter for stopped end	No	4		
9	Extra over gutter for outlet for 90mm pipe	No	4		
10	Extra over rainwater pipe for bend	No	12		
	<u>TAP STANDS</u>				
	<u>Two 20mm brass bib-taps in tap stands formed of 110mm diameter PVC pipes encased in concrete and cast into the ground complete with connecting to existing tanks with 12m long 20mm HDPE pipes in and including trenches backfilled</u>				
11	700mm High tap stands complete	No	2		
	<u>SANITARY PLUMBING</u>				
	<u>PVC-U soil and vent pipes</u>				
12	110mm Pipes	m	12		
	<u>Extra over PVC-U soil and vent pipes for fittings</u>				
13	Install new brackets/ holder bats anchored to brick walls around existing 90mm diameter vent pipes	No	27		
14	110mm Air vent whirlybird	No	12		
	Carried to Collection			R	
	Section No. 1				
	Bill No. 3				
	Renovations				

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Amount

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

BILL NO. 3

RENOVATIONS

COLLECTION

Page No

Brought Forward from Page

21

22

23

Carried To Section Summary

R

Section No. 1

Bill No. 3

Renovations

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u> <u>MANZUZULU PRIMARY SCHOOL</u> <u>BILL NO. 4</u> <u>GARDEN AND BALUSTRADE WALLS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>EARTHWORKS (PROVISIONAL)</u> <u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
1	m ³	42		
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:</u>				
2	m ³	4		
3	m ³	1		
4	m ²	167		
5	Item			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density</u>				
6	m ³	8		
7	m ²	70		
<u>Earth filling supplied by the contractor, compacted to 98% Mod AASHTO density</u>				
8	m ³	8		
Carried to Collection			R	
Section No. 1				
Bill No. 4				
Garden And Balustrade Walls				

		Unit	Quantity	Rate	Amount
<u>CONCRETE, FORMWORK & REINFORCEMENT</u>					
<u>25MPa Mass concrete in:</u>					
9	Wall footings cast against excavated surfaces.	m ³	14		
<u>Expansion Joints:</u>					
10	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	139		
<u>TEST CUBES</u>					
<u>Test Cubes</u>					
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	8		
<u>MASONRY</u>					
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>					
12	One brick wall.	m ²	111		
13	Leave or form 115 x 75mm high weep hole through one brick wall.	No	22		
<u>2,5mm Galvanised brick reinforcement</u>					
14	150mm Wide reinforcement built in horizontally	m	278		
<u>Facings Externally:</u>					
<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>					
15	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m ²	111		
16	Brick on edge coping in header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	139		
<u>PAINTING</u>					
<u>Clean down with Spirits of Salts solution and apply two coats silicone-based brick dressing on:</u>					
17	Clinker brick facings (Externally).	m ²	56		
				R	
Carried to Collection					
Section No. 1					
Bill No. 4					
Garden And Balustrade Walls					

Amount

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

BILL NO. 4

GARDEN AND BALUSTRADE WALLS

COLLECTION

Page No

Brought Forward from Page

25

26

Carried To Section Summary

R

Section No. 1

Bill No. 4

Garden And Balustrade Walls

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u> <u>MANZUZULU PRIMARY SCHOOL</u> <u>BILL NO. 5</u> <u>V-DRAINS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground:</u> The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock' <u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site <u>Filling:</u> Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material <u>Testing:</u> Prices for filling are to include for all necessary density tests in accordance with SABS 1200D <u>Cost of tests:</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)				
Carried to Collection			R	
Section No. 1				
Bill No. 5				
V-drains				

		Unit	Quantity	Rate	Amount
	<u>EXCAVATION ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Reduced levels under pavings	m ³	11		
	<u>Extra over all excavations for carting away</u>				
2	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	11		
	<u>FILLING ETC OTHER THAN BULK</u>				
	<u>Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
3	Under floors, steps, pavings, etc.	m ³	7		
	<u>Coarse river sand filling supplied by the contractor</u>				
4	Under pavings etc.	m ³	2		
	<u>Compaction of surfaces</u>				
5	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m ²	49		
	<u>Prescribed density tests on filling</u>				
6	Modified AASHTO Density test	No	7		
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
7	Under surface pavings etc.	m ²	49		
	<u>STORMWATER DRAINAGE (PROVISIONAL)</u>				
	<u>Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar:</u>				
8	Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway.	m	70		
9	Extra for angle.	No	3		
10	Extra for irregular T-intersection.	No	1		
11	Extra for fair end.	No	2		
	Carried to Collection			R	
	Section No. 1				
	Bill No. 5				
	V-drains				

		Unit	Quantity	Rate	Amount
12	Extra for dressing around culverts (culverts measured elsewhere.	No	1		
13	Extra for 1000mm long x 2700mm wide outlet with 300mm deep x 300mm wide thickened edge and thirteen number 150 x 150 x 150mm concrete block energy dissipaters set into in-situ concrete draining off to and including a 2700 x 600 x 100mm thick bed formed of 19mm diameter stones	No	2		
14	Stormwater dish drain size 900 x 600 x 900mm wide (2400 wide overall) x 300mm deep with 2400 x 150mm deep waterway.	m	1		
<u>TEST CUBES</u>					
<u>Test Cubes</u>					
15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	4		
<u>REINFORCEMENT (CPAP WORK GROUP NO. 114)</u>					
<u>Fabric reinforcement</u>					
16	Type 617 fabric reinforcement in concrete dish drains etc	m ²	49		
Carried to Collection					R
Section No. 1					
Bill No. 5					
V-drains					

Amount

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

BILL NO. 5

V-DRAINS

COLLECTION

Page No

Brought Forward from Page

28

29

30

Carried To Section Summary

R

Section No. 1

Bill No. 5

V-drains

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u> <u>MANZUZULU PRIMARY SCHOOL</u> <u>BILL NO. 6</u> <u>CONCRETE WALKWAYS & RAMPS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>EARTHWORKS (PROVISIONAL)</u> <u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
1 Reduce levels under pavings.	m ³	3		
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:</u>				
2 Soft rock.	m ³	1		
3 Hard rock.	m ³	1		
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for breaking up:</u>				
4 Unreinforced concrete	m ³	4		
5 Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m ²	4		
6 Allow for keeping excavations entirely free from water or mud.	Item			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density</u>				
7 Backfilling to trenches, holes, etc.	m ³	1		
8 Scarify in-situ material for a depth of 150mm and compact to obtain 95% modified AASHTO dry density.	m ²	67		
Carried to Collection			R	
Section No. 1				
Bill No. 6				
Concrete Walkways & Ramps				

		Unit	Quantity	Rate	Amount
	<u>Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
9	Under floors, steps, pavings, etc.	m ³	10		
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>				
	<u>25MPa Mass concrete in:</u>				
10	Ramps	m ³	13		
11	Pavings.	m ³	5		
	<u>Sundries:</u>				
12	Strike off and cure tops of surface beds laid in panels approximately 1000mm long x 1000mm wide to uniform levels including all necessary formwork to form toggle joints to temporary construction joints to falls.	m ²	67		
13	Extra for floating off smooth tops of surface beds laid in panels ta brush finish including slightly rounded edges to panels.	m ²	67		
	<u>Expansion Joints:</u>				
14	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	56		
	<u>TEST CUBES</u>				
	<u>Test Cubes</u>				
15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6		
	<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>				
	<u>Smooth formwork to sides</u>				
16	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	12		
	<u>REINFORCEMENT (CPAP WORK GROUP NO. 114)</u>				
	<u>Fabric reinforcement</u>				
17	Type 617 fabric reinforcement in concrete surface beds etc	m ²	67		
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
18	Under surface pavings etc.	m ²	67		
	Carried to Collection			R	
	Section No. 1				
	Bill No. 6				
	Concrete Walkways & Ramps				

Amount

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

BILL NO. 6

CONCRETE WALKWAYS & RAMPS

COLLECTION

Page No

Brought Forward from Page

32

33

Carried To Section Summary

R

Section No. 1

Bill No. 6

Concrete Walkways & Ramps

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u> <u>MANZENZULU PRIMARY SCHOOL</u> <u>BILL NO. 7</u> <u>SOAKAWAYS & CULVERTS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>Filling:</u> Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material <u>Testing:</u> Prices for filling are to include for all necessary density tests in accordance with SABS 1200D <u>CULVERTS</u> <u>Culverts formed of Class 50D concrete pipes</u>				
1	m	6		
<u>Brick stormwater catchpits</u>				
2	No	1		
3	No	1		
Carried to Collection			R	
Section No. 1 Bill No. 7 Soakaways & Culverts				

		Unit	Quantity	Rate	Amount
<u>THE FOLLOWING IN STORMWATER SOAKAWAYS</u>					
<u>Site clearance</u>					
4	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m ²	2		
<u>Subsoil drainage</u>					
5	Excavation in earth not exceeding 2m deep for pipe trenches and holes	m ³	2		
6	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	2		
7	Risk of collapse to sides of trench and hole excavation not exceeding 1.5m deep	m ²	1		
8	Risk of collapse to sides of trench and hole excavation exceeding 1.5m but not exceeding 3.0m deep	m ²	7		
9	Keeping excavations free of water	Item			
10	Filling in bedding under and filling around pipes with granular material supplied by the contractor and compacted to 98% Mod AASHTO density	m ³	2		
11	19mm Crushed stone beds	m ³	1		
12	63mm Stone beds	m ³	1		
<u>Geotextile filter fabric blanket with stiched 300mm laps</u>					
13	Around stone filling in sub-soil drain trenches	m ²	2		
<u>THE FOLLOWING IN HEADWALLS AND STORMWATER DISSIPATERS</u>					
<u>Site clearance</u>					
14	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m ²	5		
15	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	5		
<u>Open face excavation in earth over sloping site</u>					
16	Open face excavation	m ³	5		
<u>Excavation in earth not exceeding 2m deep</u>					
17	Trenches	m ³	1		
Carried to Collection				R	
Section No. 1					
Bill No. 7					
Soakaways & Culverts					

		Unit	Quantity	Rate	Amount
18	Holes	m ³	1		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
19	Soft rock	m ³	1		
20	Hard rock	m ³	1		
	<u>Extra over all excavations for carting away</u>				
21	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	6		
	<u>Risk of collapse of excavations</u>				
22	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	4		
	<u>Coarse river sand filling supplied by the contractor</u>				
23	Under floors etc.	m ³	1		
	<u>Keeping excavations free of water</u>				
24	Keeping excavations free of all water other than subterranean water	Item			
	<u>Gabions of galvanised wire boxes laced together and filled with broken stone, with voids filled with 1:3 cement sand mixture</u>				
25	300mm Thick gabion mattress of 1.8 x 1 x 0.3m boxes properly bonded	m ³	1		
	<u>A3 Geotextile filter fabric blanket with 300mm laps</u>				
26	Under stone filled gabion mattresses including preparing ground surface under	m ²	2		
	<u>25MPa/19mm concrete</u>				
27	Surface beds on waterproofing	m ³	0.26		
28	Walls in foundations (Provisional)	m ³	1		
	<u>Test cubes</u>				
29	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1		
	<u>Finishing top surfaces of concrete smooth with a wood float</u>				
30	Surface beds, slabs, etc. to falls and currents	m ²	2		
	<u>Rough formwork to sides</u>				
31	Walls in foundations (Provisional)	m ²	1		
	Carried to Collection			R	
	Section No. 1				
	Bill No. 7				
	Soakaways & Culverts				

38

Amount

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

BILL NO. 7

SOAKAWAYS & CULVERTS

COLLECTION

Page No

Brought Forward from Page

35

36

37

38

Carried To Section Summary

R

Section No. 1

Bill No. 7

Soakaways & Culverts

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u>				
<u>MANZUZULU PRIMARY SCHOOL</u>				
<u>BILL NO. 8</u>				
<u>GRADE R FENCING</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>THE FOLLOWING IN SECURITY FENCING</u>				
<u>Site clearance</u>				
1	Allow for clearing site for a width of 1m where fencing runs are to be erected including removing trees, shrubs, etc not exceeding 200mm girth, grubbing up roots and roughly levelling	m	90	
<u>Straining wires, fencing and razor wire</u>				
2	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	90	
3	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including staking to ground with and including Y10 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	90	
<u>Posts</u>				
4	75mm Diameter galvanised steel intermediate fencing post, 2700mm fitted with a pressed steel mushroom cap, post fitted with 150 x 150 x 5mm base plate at bottom and set into the ground.	No	15	
5	150mm Ditto as standard post but embedded in 600 x 600 x 700mm high mass concrete (15MPa) base	No	5	
Carried to Collection			R	
Section No. 1				
Bill No. 8				
Grade R Fencing				

		Unit	Quantity	Rate	Amount
6	150mm Ditto as straining or corner posts, but fitted with two 75mm diameter galvanised steel raking stays and with top ends flattened and bolted through post with post embedded in 600 x 600 x 700mm high mass concrete (15MPa) base and stays embedded in 700 x 700 x 450mm high mass concrete (15MPa) base	No	5		
7	150mm Ditto as end/ gate post, but fitted with one 75mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post embedded in 600 x 600 x 700mm mass concrete (15MPa) base and stay embedded in 700 x 700 x 450mm high mass concrete (15MPa) base with all base tops set raking (sloping)	No	5		
	Gates				
8	Security fence single gate, size 900 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, with 20mm diameter x 300mm long locking bolt welded on and a pair of heavy duty gate hooks for a 16mm band hinge pin welded on to gate and including a pair of 16mm band hinge pins bolted to gate posts	No	1		
9	Security fence single gate, size 1500 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, hung on pair of socketted and pinned hinges with pin 18mm in diameter and bolted to brick wall and with 20mm diameter x 300mm long locking bolt welded on.	No	1		
10	Double gate, size 6 000 mm wide x 1 800 mm high overall in two leaves, formed of 50 mm diameter nominal bore x 2.5 mm wall thickness hot dip galvanised mild steel pipe framing all round with 25 mm diameter nominal bore x 2.0 mm wall thickness diagonal and centre braces, scribed and welded into angles and at cross intersections, gate filled with 50 x 50 x 2,0mm galvanised wire diamond mesh, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, each leaf fitted with two 25 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
	Carried to Collection			R	
	Section No. 1				
	Bill No. 8				
	Grade R Fencing				

	Unit	Quantity	Rate	Amount
<u>Locks</u> 11 50mm "Viro" or other equally approved padlocks for external use.	No	3		
Carried to Collection			R	
Section No. 1 Bill No. 8 Grade R Fencing				

42

Amount

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

BILL NO. 8

GRADE R FENCING

COLLECTION

Page No

Brought Forward from Page

40

41

42

Carried To Section Summary

R

Section No. 1

Bill No. 8

Grade R Fencing

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 1</u>				
<u>MANZEZULU PRIMARY SCHOOL</u>				
<u>BILL NO. 9</u>				
<u>SCREEN WALLS</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>EARTHWORKS (PROVISIONAL)</u>				
<u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
1 Surface trenches.	m ³	4		
2 Holes	m ³	8		
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:</u>				
3 Soft rock.	m ³	1		
4 Hard rock.	m ³	1		
5 Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m ²	28		
6 Allow for keeping excavations entirely free from water or mud.	Item			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density</u>				
7 Backfilling to trenches, holes, etc.	m ³	6		
<u>CONCRETE, FORMWORK & REINFORCEMENT</u>				
<u>25MPa Mass concrete in:</u>				
8 Wall footings cast against excavated surfaces.	m ³	2		
9 Bases	m ³	3		
Carried to Collection			R	
Section No. 1				
Bill No. 9				
Screen Walls				

45

Amount

SECTION NO. 1

MANZENZULU PRIMARY SCHOOL

BILL NO. 9

SCREEN WALLS

COLLECTION

Page No

Brought Forward from Page

44

45

Carried To Section Summary

R

Section No. 1

Bill No. 9

Screen Walls

Amount

SECTION NO. 1

MANZUZULU PRIMARY SCHOOL

BILL NO. 10

PROVISIONAL SUMS

PROVISIONAL SUMS

Supplementary Preambles

Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.

Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.

BUDGETARY ALLOWANCES

Sundry building work

- 1 Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)

Item 22 500 00

- 2 Profit

Item

- 3 Attendance

Item

- 4 Provide the sum of R105 000. 00 for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire constructions period

Item 105 000 00

- 5 Profit

Item

- 6 Attendance

Item

BUDGETARY ALLOWANCES

Contingencies

- 7 Allow the Amount of R32 000.00 (Thirty Two Thousand Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.

Item 32 000 00

Carried To Section Summary

R

Section No. 1

Bill No. 10

Provisional Sums

Amount

SECTION NO. 1
MANZUZULU PRIMARY SCHOOL
SECTION SUMMARY

Bill No.		Page
1	PRELIMINARIES	17
2	HEALTH AND SAFETY	20
3	RENOVATIONS	24
4	GARDEN AND BALUSTRADE WALLS	27
5	V-DRAINS	31
6	CONCRETE WALKWAYS & RAMPS	34
7	SOAKAWAYS & CULVERTS	39
8	GRADE R FENCING	43
9	SCREEN WALLS	46
10	PROVISIONAL SUMS	47

Section No. 1
SECTION SUMMARY

Carried to Final Summary

R

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 1

PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry.

2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.

3. The tenderor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause. The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.

4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.

5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.

6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

8. Where any item is not relevant to this specific contract, such item is marked N/A.

9. 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 by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

Carried to Collection

R

Section No. 2

Bill No. 1

Preliminaries

			Amount
<u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u>			
<u>DEFINITIONS</u>			
<u>A1 DEFINITIONS AND INTERPRETATION</u>			
<u>Clause 1.0:</u>			
1	Fixed:_____ Value related:_____ Time related:_____0	Item	
<u>OBJECTIVE AND PREPARATION</u>			
<u>A2 OFFER, ACCEPTANCE AND PERFORMANCE</u>			
<u>Clause 2.0</u>			
2	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A3 DOCUMENTS</u>			
<u>Clause 3.0</u>			
Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'			
Clause 3.3 is deleted and substituted with:			
The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'			
3	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A4 DESIGN RESPONSIBILITY</u>			
<u>Clause 4.0</u>			
4	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A5 EMPLOYERS AGENTS</u>			
<u>Clause 5.0</u>			
5	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A6 SITE REPRESENTATIVE</u>			
<u>Clause 6.0</u>			
6	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A7 COMPLIANCE WITH REGULATIONS</u>			
7	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>Clause 7.0</u>			
8	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A8 WORKS RISK</u>			
<u>Clause 8.0</u>			
9	Fixed:_____ Value related:_____ Time related:_____	Item	
Carried to Collection		R	
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>A9 INDEMNITIES</u>			
<u>Clause 9.0</u>			
Clause 9.1.1 is deleted and substituted with:			
Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.			
10	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A10 WORKS INSURANCES</u>			
<u>Clause 10.0</u>			
11	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A11 LIABILITY INSURANCES</u>			
<u>Clause 11.0</u>			
12	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A12 EFFECTING INSURANCES</u>			
<u>Clause 12.0</u>			
13	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A13. No clause</u>			
14	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A14 SECURITY</u>			
<u>Clause 14.0</u>			
15	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>EXECUTION</u>			
<u>A15 PREPERATION FOR AND EXECUTION OF THE WORKS</u>			
<u>Clause 15.0</u>			
16	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A16 ACCESS TO THE WORKS</u>			
<u>Clause 16.0</u>			
17	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A17 CONTRACT INSTRUCTIONS</u>			
<u>Clause 17.0</u>			
18	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>A18 SETTING OUT OF THE WORKS</u>			
<u>Clause 18.0</u>			
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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out			
19	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A19 ASSIGNMENT</u>			
<u>Clause 19.0</u>			
20	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A20 NOMINATED SUB-CONTRACTORS</u>			
<u>Clause 20.0</u>			
21	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A21 SELECTED SUBCONTRACTORS</u>			
<u>Clause 21.0</u>			
22	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A22 EMPLOYER'S DIRECT CONTRACTORS</u>			
<u>Clause 22.0</u>			
23	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u>			
<u>Clause 23.0</u>			
24	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>COMPLETION</u>			
<u>A24 PRACTICAL COMPLETION</u>			
<u>Clause 24.0</u>			
25	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A25 WORK'S COMPLETION</u>			
<u>Clause 25.0</u>			
26	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A26 FINAL COMPLETION</u>			
<u>Clause 26.0</u>			
27	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>A27 LATENT DEFECTS LIABILITY PERIOD</u>			
<u>Clause 27.0</u>			
Clause 27.0 is amended by the addition of the following clauses:			
"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".			
"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"			
28	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A28 SECTIONAL COMPLETION</u>			
<u>Clause 28.0</u>			
29	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A29 REVISION OF DATE FOR PRACTICAL COMPLETION</u>			
<u>Clause 29.0</u>			
30	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A30 PENALTY FOR NON-COMPLETION</u>			
<u>Clause 30.0</u>			
31	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>PAYMENT</u>			
<u>A31 INTERIM PAYMENT TO THE CONTRACTOR</u>			
<u>Clause 31.0</u>			
The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.			
Where prices are submitted by the contractor or nominated/selected sub-contractor 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.			
32	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>A32 ADJUSTMENT TO THE CONTRACT VALUE</u>			
<u>Clause 32.0</u>			
33	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A33 RECOVERY OF EXPENSE AND LOSS</u>			
<u>Clause 33.0</u>			
34	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A34 FINAL ACCOUNT AND FINAL PAYMENT</u>			
<u>Clause 34.0</u>			
35	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A35 PAYMENT TO OTHER PARTIES</u>			
<u>Clause 35.0</u>			
36	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>CANCELLATION</u>			
<u>A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u>			
<u>Clause 36.0</u>			
37	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u>			
<u>Clause 37.0</u>			
38	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u>			
<u>Clause 38.0</u>			
39	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A39 CANCELLATION - CESSATION OF THE WORKS</u>			
<u>Clause 39.0</u>			
40	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>DISPUTE</u>			
<u>A40 DISPUTE SETTLEMENT</u>			
<u>Clause 40.0</u>			
41	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>SUBSTITUTE PROVISIONS</u>			
<u>A41 STATE CLAUSES</u>			
<u>Clause 41.0</u>			
42	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>CONTRACT VARIABLES</u>			
<u>THE SCHEDULE (C1.2 CONTRACT DATA)</u>			
<u>A42 PRE-TENDER INFORMATION</u>			
<u>Clause 42.0</u>			
Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract.			
43	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>SECTION B: JBCC PRELIMINARIES</u>			
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>			
<u>B1.1 Definitions and interpretation</u>			
44	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.0 DOCUMENTS</u>			
<u>B2.1 Checking of documents</u>			
Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
45	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.2 Provisional bills of quantities</u>			
Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
46	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.3 Availability of construction documentation</u>			
47	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.4 Interests of agents</u>			
48	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.5 Priced documents</u>			
49	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.6 Tender submission</u>			
Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.			
50	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>B3.0 THE SITE</u>			
<u>B3.1 Defined works area</u>			
The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.			
The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
51	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.2 Geotechnical investigation</u>			
52	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.3 Inspection of the site</u>			
53	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.4 Existing premises occupied</u>			
54	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.5 Previous work - dimensional accuracy</u>			
55	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.6 Previous work - defects</u>			
56	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.7 Services - known</u>			
57	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.8 Services - unknown</u>			
58	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.9 Protection of trees</u>			
59	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.10 Articles of value</u>			
60	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.11 Inspection of adjoining properties</u>			
61	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.0 MANAGEMENT OF CONTRACT</u>			
<u>B4.1 Management of the works</u>			
62	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>B4.2 Programme for the works</u>			
63	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.3 Progress meetings</u>			
64	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.4 Technical meetings</u>			
65	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.5 Labour and plant records</u>			
66	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
<u>B5.1 Samples of materials</u>			
67	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.2 Workmanship samples</u>			
68	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.3 Shop drawings</u>			
69	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.4 Compliance with manufacturers instructions</u>			
70	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
<u>B6.1 Deposits and fees</u>			
71	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.2 Enclosure of the works</u>			
The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.			
72	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.3 Advertising</u>			
73	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.4 Plant, equipment, sheds and offices</u>			
74	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.5 Main notice board</u>			
75	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
	<u>B6.6 Subcontractors' notice board</u>		
76	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.0 TEMPORARY SERVICES</u>		
	<u>B7.1 Location</u>		
77	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.2 Water</u>		
	The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
78	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.3 Electricity</u>		
	The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
79	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.4 Telecommunication facilities</u>		
	The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
80	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.5 Ablution facilities</u>		
	The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
81	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B8.0 PRIME COST AMOUNTS</u>		
	<u>B8.1 Responsibility for prime cost amounts</u>		
82	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
	<u>B9.1 General attendance</u>		
83	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B9.2 Special attendance</u>		
84	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B9.3 Commissioning - fuel, water and electricity</u>		
85	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>B10.0 FINANCIAL ASPECTS</u>			
<u>B10.1 Statutory taxes, duties and levies</u>			
86	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.2 Payment for preliminaries</u>			
87	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.3 Adjustment of preliminaries</u>			
88	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.4 Payment certificate cash flow</u>			
89	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11. GENERAL</u>			
<u>B11.1 Protection of the works</u>			
90	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.2 Protection / isolation of existing / sectionally occupied works</u>			
91	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.3 Security of the works</u>			
92	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.4 Notice before covering work</u>			
93	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>11.5 Disturbance</u>			
94	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.6 Environmental disturbance</u>			
95	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.7 Works cleaning and clearing</u>			
96	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.8 Vermin</u>			
97	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.9 Overhand work</u>			
98	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.10 Instruction manuals and guarantees</u>			
99	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.11 As built information</u>			
100	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
101	<u>B11.12 Tenant installations</u>		
	Fixed: _____ Value related: _____ Time related: _____	Item	
102	<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.		
103	<u>C1 CONTRACT DRAWINGS</u>		
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.	Item	
104	<u>C2 GENERAL PREAMBLES</u>		
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used.	Item	
104	<u>C3 PROPRIETARY BRANDED PRODUCTS</u>		
	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.	Item	
Carried to Collection			
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
<u>C4 CONTRACTOR'S RESPONSIBILITY</u>			
The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved			
105	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C5 OVERTIME</u>			
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 the execution thereof, that costs for such overtime are to be borne by the employer.			
106	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C6 AS BUILT DRAWINGS</u>			
The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.			
Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion			
107	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C7 CONTRACT INSTRUCTIONS</u>			
Contract 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. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
a) Contract Instruction Book			
Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
Only instructions issued in such book shall be recognised.			
b) Daily Record Book			
The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
Carried to Collection			
Section No. 2			R
Bill No. 1			
Preliminaries			

			Amount
108	Fixed: _____ Value related: _____ Time related: _____ <u>C8 LABOUR RECORD</u> At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day	Item	
109	F: V: T: <u>C9 PLANT RECORD</u> 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, currently used on the works.	Item	
110	F: V: T: <u>C10 ENCROACHMENT</u> During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor	Item	
111	F: V: T: <u>C11 METHOD STATEMENT</u> The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.	Item	
112	F: V: T: <u>C12 UNAUTHORISED PERSONS/WORKMEN ON PREMISES</u> The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect. No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.	Item	
113	F: V: T: <u>C13 MODE OF PROCEDURE</u> Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.	Item	
Carried to Collection			
Section No. 2			
Bill No. 1			
Preliminaries			

			Amount
114	Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost F: V: T: <u>C14 LOCATION OF TEMPORARY BUILDINGS AND TEMPORARY SERVICES</u> The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith	Item	
115	F: V: T: <u>C15 OFFICE ACCOMMODATION</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item	
116	F: V: T: <u>C16 STORAGE FACILITIES</u> The Contractor shall provide a Container for storage of materials.	Item	
117	F: V: T: <u>C17 REMOVAL AND MAKING GOOD OF TEMPORARY WORKS, ETC, ON COMPLETION</u> The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item	
118	F: V: T:	Item	
Carried to Collection			
Section No. 2			
Bill No. 1			
Preliminaries			

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 1

PRELIMINARIES

COLLECTION

Page No

Brought Forward from Page

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

Carried To Section Summary

R

Section No. 2

Bill No. 1

Preliminaries

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>NOTHINTSI JUNIOR SECONDARY SCHOOL</u> <u>BILL NO. 2</u> <u>HEALTH AND SAFETY</u> <u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. <u>SUPPLEMENTARY PREAMBLES</u> Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles. The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications. Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications. <u>OCCUPATIONAL HEALTH AND SAFETY</u> <u>General</u> 1 Preparation of Contractor's site specific Health and Safety Plan 2 Submission of the Health and Safety File 3 Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations 4 Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period 5 Provision of full time Health and Safety Officer for the entire construction period 6 Induction training of all personnel 7 Provision of first aid boxes Carried to Collection Section No. 2 Bill No. 2 Health And Safety				
	Item			
	Item			
	Item			
	Item			
	Item			
	Item			
	Item			
			R	

	Unit	Quantity	Rate	Amount
8 SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150		
9 Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high	No	1		
<u>Provision for Personal Protective Equipment and</u>				
10 Reflective vests.	Item			
11 Hard hats	Item			
12 Protective footwear	Item			
13 Ear plugs	Item			
14 Dust masks	Item			
<u>Medical certificates and medical surveillance</u>				
15 Initial (baseline) medical examinations for all personnel	Item			
16 Exit Examinations for all personnel	Item			
<u>Noise Monitoring</u>				
17 Establishment of noise zones	Item			
18 Audiograms	Item			
<u>Covid-19 Compliance Measures</u>				
19 The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements	Item			
Carried to Collection			R	
Section No. 2				
Bill No. 2				
Health And Safety				

67

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 2

HEALTH AND SAFETY

COLLECTION

Page No

Brought Forward from Page

66

67

Carried To Section Summary

R

Section No. 2

Bill No. 2

Health And Safety

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>NOTHINTSI JUNIOR SECONDARY SCHOOL</u> <u>BILL NO. 3</u> <u>RENOVATIONS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained <u>General</u> Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent <u>DEMOLITIONS</u> <u>Demolishing and removing</u>				
1	Existing surface slabs and fill up all pit chambers with imported fill material and leave site level	m ³	60	
2	Single storey building with pitched roof, 11 x 7m on plan and 3.2m high at eaves, comprising 1.8m deep pit chambers below ground, reinforced concrete surface bed, brick external walls, brick internal walls including carting away from site all materials arising from demolitions	No	1	
Carried to Collection			R	
Section No. 2				
Bill No. 3				
Renovations				

		Unit	Quantity	Rate	Amount
<u>MAKING GOOD OF EXISTING WORK</u>					
<u>Making good VIP pedestals</u>					
3	Secure loosely fitted pit pedestals by bolting down securely or applying an cement/ epoxy based industrial adhesive	No	7		
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>					
4	Remove damaged VIP 450 pit pedestals, prepare suface to receive new VIP 450 pit pedestal (new pedestal measured elsewhere)	No	1		
5	Remove VIP 200 pit pedestals, prepare suface to receive new VIP 450 pit pedestal (new pedestal measured elsewhere)	No	3		
6	PVC urinal traps	No	1		
7	Damaged 40mm soil drainage pipes	m	9		
<u>Making good leaking water pipe fittings by disassembling, cleanning, applying appropriate seal and reassembling</u>					
8	Leaking 25mm raiwater tank outlets	No	2		
<u>Site cleaning</u>					
9	Clear site of all existing builders rubble and spoil heaps and cart away to a dump site to be located by contractor	m ³	64		
<u>Making good falling VIP pedestal steel doors</u>					
10	Secure overhead timber beams to walls using expansion bolts, resecure and realign steel doors and make good plaster and paint	No	3		
<u>Making good existing security gates</u>					
11	Repair loose hanging or fallen gates by making good brick walls and then re-installing gates into position with new 13mm diameter x 90mm long expansion applied to existing gate hinges	No	2		
<u>Making good existing timber doors and frames</u>					
12	Making good good falling doors where plugs to walls have failed by repositioning existing timber door frames and secure by installing new anchors/ plugs including refitting doors to hinges and frames.	No	3		
Carried to Collection				R	
Section No. 2					
Bill No. 3					
Renovations					

71

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Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 3

RENOVATIONS

COLLECTION

Page No

Brought Forward from Page

69

70

71

72

Carried To Section Summary

R

Section No. 2

Bill No. 3

Renovations

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>NOTHINTSI JUNIOR SECONDARY SCHOOL</u> <u>BILL NO. 4</u> <u>GARDEN AND BALUSTRADE WALLS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>EARTHWORKS (PROVISIONAL)</u> <u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
1	Surface trenches.	m ³	23	
	<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:</u>			
2	Soft rock.	m ³	2	
3	Hard rock.	m ³	1	
4	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m ²	94	
5	Allow for keeping excavations entirely free from water or mud.	Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density</u>			
6	Backfilling to trenches, holes, etc.	m ³	4	
7	Scarify in-situ material for a depth of 150mm and compact to obtain 98% modified AASHTO dry density.	m ²	39	
	<u>Earth filling supplied by the contractor, compacted to 98% Mod AASHTO density</u>			
8	Under floors, steps, pavings, etc.	m ³	4	
Carried to Collection			R	
Section No. 2				
Bill No. 4				
Garden And Balustrade Walls				

		Unit	Quantity	Rate	Amount
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>				
	<u>25MPa Mass concrete in:</u>				
9	Wall footings cast against excavated surfaces.	m³	8		
	<u>Expansion Joints:</u>				
10	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	78		
	<u>TEST CUBES</u>				
	<u>Test Cubes</u>				
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
	<u>MASONRY</u>				
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
12	One brick wall.	m²	62		
13	Leave or form 115 x 75mm high weep hole through one brick wall.	No	15		
	<u>2,5mm Galvanised brick reinforcement</u>				
14	150mm Wide reinforcement built in horizontally	m	234		
	<u>Facings Externally:</u>				
	<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
15	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m²	62		
16	Brick on edge coping in header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	78		
	<u>PAINTING</u>				
	<u>Clean down with Spirits of Salts solution and apply two coats silicone-based brick dressing on:</u>				
17	Clinker brick facings (Externally).	m²	62		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 4				
	Garden And Balustrade Walls				

75

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 4

GARDEN AND BALUSTRADE WALLS

COLLECTION

Page No

Brought Forward from Page

74

75

Carried To Section Summary

Section No. 2

Bill No. 4

Garden And Balustrade Walls

R

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u> <u>NOTHINTSI JUNIOR SECONDARY SCHOOL</u> <u>BILL NO. 5</u> <u>V – DRAINS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground:</u> The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock' <u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site <u>Filling:</u> Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material <u>Testing:</u> Prices for filling are to include for all necessary density tests in accordance with SABS 1200D <u>Cost of tests:</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)				
Carried to Collection			R	
Section No. 2				
Bill No. 5				
V – Drains				

		Unit	Quantity	Rate	Amount
	<u>EXCAVATION ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Reduced levels under pavings	m ³	13		
	<u>Extra over all excavations for carting away</u>				
2	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	13		
	<u>FILLING ETC OTHER THAN BULK</u>				
	<u>Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
3	Under floors, steps, pavings, etc.	m ³	9		
	<u>Coarse river sand filling supplied by the contractor</u>				
4	Under pavings etc.	m ³	3		
	<u>Compaction of surfaces</u>				
5	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m ²	1		
	<u>Prescribed density tests on filling</u>				
6	Modified AASHTO Density test	No	4		
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
7	Under surface pavings etc.	m ²	58		
	<u>STORMWATER DRAINAGE (PROVISIONAL)</u>				
	<u>Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar:</u>				
8	Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway.	m	78		
9	Extra for angle.	No	2		
10	Extra for fair end.	No	2		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 5				
	V – Drains				

		Unit	Quantity	Rate	Amount
11	Extra for 1000mm long x 2700mm wide outlet with 300mm deep x 300mm wide thickened edge and thirteen number 150 x 150 x 150mm concrete block energy dissipaters set into in-situ concrete draining off to and including a 2700 x 600 x 100mm thick bed formed of 19mm diameter stones	No	4		
12	Stormwater dish drain size 900 x 600 x 900mm wide (2400 wide overall) x 300mm deep with 2400 x 150mm deep waterway.	m	1		
<u>TEST CUBES</u>					
<u>Test Cubes</u>					
13	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
<u>REINFORCEMENT (CPAP WORK GROUP NO. 114)</u>					
<u>Fabric reinforcement</u>					
14	Type 617 fabric reinforcement in concrete dish drains etc	m ²	58		
Carried to Collection				R	
Section No. 2					
Bill No. 5					
V – Drains					

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 5

V – DRAINS

COLLECTION

Page No

Brought Forward from Page

77

78

79

Carried To Section Summary

R

Section No. 2

Bill No. 5

V – Drains

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>NOTHINTSI JUNIOR SECONDARY SCHOOL</u>				
<u>BILL NO. 6</u>				
<u>CONCRETE APRONS, WALKWAYS & RAMPS</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>EARTHWORKS (PROVISIONAL)</u>				
<u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
1 Reduce levels under pavings.	m ³	3		
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:</u>				
2 Soft rock.	m ³	1		
3 Hard rock.	m ³	1		
<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for breaking up:</u>				
4 Unreinforced concrete	m ³	2		
5 Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m ²	4		
6 Allow for keeping excavations entirely free from water or mud.	Item			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density</u>				
7 Backfilling to trenches, holes, etc.	m ³	1		
8 Scarify in-situ material for a depth of 150mm and compact to obtain 95% modified AASHTO dry density.	m ²	36		
Carried to Collection			R	
Section No. 2				
Bill No. 6				
Concrete Aprons, Walkways & Ramps				

82

	Unit	Quantity	Rate	Amount
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
19 Under surface pavings etc.	m²	36		
			R	
Carried to Collection				
Section No. 2				
Bill No. 6				
Concrete Aprons, Walkways & Ramps				

83

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 6

CONCRETE APRONS, WALKWAYS & RAMPS

COLLECTION

Page No

Brought Forward from Page

81

82

83

Carried To Section Summary

R

Section No. 2

Bill No. 6

Concrete Aprons, Walkways & Ramps

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>NOTHINTSI JUNIOR SECONDARY SCHOOL</u>				
<u>BILL NO. 7</u>				
<u>GRADE R FENCING</u>				
<u>PREAMBLES</u>				
The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
<u>THE FOLLOWING IN SECURITY FENCING</u>				
<u>Site clearance</u>				
1	Allow for clearing site for a width of 1m where fencing runs are to be erected including removing trees, shrubs, etc not exceeding 200mm girth, grubbing up roots and roughly levelling	m	110	
<u>Straining wires, fencing and razor wire</u>				
2	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	110	
3	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including staking to ground with and including Y10 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	110	
<u>Posts</u>				
4	75mm Diameter galvanised steel intermediate fencing post, 2700mm fitted with a pressed steel mushroom cap, post fitted with 150 x 150 x 5mm base plate at bottom and set into the ground.	No	21	
5	150mm Ditto as standard post but embedded in 600 x 600 x 700mm high mass concrete (15MPa) base	No	7	
Carried to Collection				R
Section No. 2				
Bill No. 7				
Grade R Fencing				

85

		Unit	Quantity	Rate	Amount
6	150mm Ditto as straining or corner posts, but fitted with two 75mm diameter galvanised steel raking stays and with top ends flattened and bolted through post with post embedded in 600 x 600 x 700mm high mass concrete (15MPa) base and stays embedded in 700 x 700 x 450mm high mass concrete (15MPa) base	No	6		
7	150mm Ditto as end/ gate post, but fitted with one 75mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post embedded in 600 x 600 x 700mm mass concrete (15MPa) base and stay embedded in 700 x 700 x 450mm high mass concrete (15MPa) base with all base tops set raking (sloping)	No	5		
	Gates				
8	Security fence single gate, size 900 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, with 20mm diameter x 300mm long locking bolt welded on and a pair of heavy duty gate hooks for a 16mm band hinge pin welded on to gate and including a pair of 16mm band hinge pins bolted to gate posts	No	1		
9	Security fence single gate, size 1500 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, hung on pair of socketted and pinned hinges with pin 18mm in diameter and bolted to brick wall and with 20mm diameter x 300mm long locking bolt welded on.	No	1		
10	Double gate, size 6 000 mm wide x 1 800 mm high overall in two leaves, formed of 50 mm diameter nominal bore x 2.5 mm wall thickness hot dip galvanised mild steel pipe framing all round with 25 mm diameter nominal bore x 2.0 mm wall thickness diagonal and centre braces, scribed and welded into angles and at cross intersections, gate filled with 50 x 50 x 2,0mm galvanised wire diamond mesh, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, each leaf fitted with two 25 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 7				
	Grade R Fencing				

	Unit	Quantity	Rate	Amount
<u>Locks</u> 11 50mm "Viro" or other equally approved padlocks for external use.	No	3		
Carried to Collection			R	
Section No. 2 Bill No. 7 Grade R Fencing				

87

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 7

GRADE R FENCING

COLLECTION

Page No

Brought Forward from Page

85

86

87

Carried To Section Summary

R

Section No. 2

Bill No. 7

Grade R Fencing

Amount

SECTION NO. 2

NOTHINTSI JUNIOR SECONDARY SCHOOL

BILL NO. 8

PROVISIONAL SUMS

PROVISIONAL SUMS

Supplementary Preambles

Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.

Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.

BUDGETARY ALLOWANCES

Sundry building work

- 1 Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)

Item 22 500 00

- 2 Profit

Item

- 3 Attendance

Item

- 4 Provide the sum of R105 000. 00 for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire constructions period

Item 105 000 00

- 5 Profit

Item

- 6 Attendance

Item

Contingencies

- 7 Allow the Amount of R24 000.00 contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.

Item 24 000 00

Carried To Section Summary

R

Section No. 2

Bill No. 8

Provisional Sums

Amount

SECTION NO. 2
NOTHINTSI JUNIOR SECONDARY SCHOOL
SECTION SUMMARY

Bill No.		Page
1	PRELIMINARIES	65
2	HEALTH AND SAFETY	68
3	RENOVATIONS	73
4	GARDEN AND BALUSTRADE WALLS	76
5	V – DRAINS	80
6	CONCRETE APRONS, WALKWAYS & RAMPS	84
7	GRADE R FENCING	88
8	PROVISIONAL SUMS	89

Section No. 2
SECTION SUMMARY

Carried to Final Summary

R

SECTION NO. 3

NYWARA PRIMARY SCHOOL

Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 1

PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry.
2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.
3. The tenderor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause. The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.
4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.
5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.
6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.
7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.
8. Where any item is not relevant to this specific contract, such item is marked N/A.
9. 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 by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

Carried to Collection

R

Section No. 3

Bill No. 1

Preliminaries

			Amount
<u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u>			
<u>DEFINITIONS</u>			
<u>A1 DEFINITIONS AND INTERPRETATION</u>			
<u>Clause 1.0:</u>			
1	Fixed:_____ Value related:_____ Time related:_____0	Item	
<u>OBJECTIVE AND PREPARATION</u>			
<u>A2 OFFER, ACCEPTANCE AND PERFORMANCE</u>			
<u>Clause 2.0</u>			
2	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A3 DOCUMENTS</u>			
<u>Clause 3.0</u>			
Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'			
Clause 3.3 is deleted and substituted with:			
The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'			
3	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A4 DESIGN RESPONSIBILITY</u>			
<u>Clause 4.0</u>			
4	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A5 EMPLOYERS AGENTS</u>			
<u>Clause 5.0</u>			
5	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A6 SITE REPRESENTATIVE</u>			
<u>Clause 6.0</u>			
6	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A7 COMPLIANCE WITH REGULATIONS</u>			
7	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>Clause 7.0</u>			
8	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A8 WORKS RISK</u>			
<u>Clause 8.0</u>			
9	Fixed:_____ Value related:_____ Time related:_____	Item	
Carried to Collection		R	
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>A9 INDEMNITIES</u>			
<u>Clause 9.0</u>			
Clause 9.1.1 is deleted and substituted with:			
Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.			
10	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A10 WORKS INSURANCES</u>			
<u>Clause 10.0</u>			
11	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A11 LIABILITY INSURANCES</u>			
<u>Clause 11.0</u>			
12	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A12 EFFECTING INSURANCES</u>			
<u>Clause 12.0</u>			
13	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A13. No clause</u>			
14	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A14 SECURITY</u>			
<u>Clause 14.0</u>			
15	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>EXECUTION</u>			
<u>A15 PREPERATION FOR AND EXECUTION OF THE WORKS</u>			
<u>Clause 15.0</u>			
16	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A16 ACCESS TO THE WORKS</u>			
<u>Clause 16.0</u>			
17	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A17 CONTRACT INSTRUCTIONS</u>			
<u>Clause 17.0</u>			
18	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>A18 SETTING OUT OF THE WORKS</u>			
<u>Clause 18.0</u>			
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. Should incorrect information be given to the contractor in terms of 18.1 and 18.2, which causes the incorrect setting out of the works, the contractor shall not be liable for such incorrect setting out			
19	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A19 ASSIGNMENT</u>			
<u>Clause 19.0</u>			
20	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A20 NOMINATED SUB-CONTRACTORS</u>			
<u>Clause 20.0</u>			
21	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A21 SELECTED SUBCONTRACTORS</u>			
<u>Clause 21.0</u>			
22	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A22 EMPLOYER'S DIRECT CONTRACTORS</u>			
<u>Clause 22.0</u>			
23	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</u>			
<u>Clause 23.0</u>			
24	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>COMPLETION</u>			
<u>A24 PRACTICAL COMPLETION</u>			
<u>Clause 24.0</u>			
25	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A25 WORK'S COMPLETION</u>			
<u>Clause 25.0</u>			
26	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A26 FINAL COMPLETION</u>			
<u>Clause 26.0</u>			
27	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>A27 LATENT DEFECTS LIABILITY PERIOD</u>			
<u>Clause 27.0</u>			
Clause 27.0 is amended by the addition of the following clauses:			
"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".			
"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accumulates in order to attend to a comprehensive list of defects"			
28	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A28 SECTIONAL COMPLETION</u>			
<u>Clause 28.0</u>			
29	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A29 REVISION OF DATE FOR PRACTICAL COMPLETION</u>			
<u>Clause 29.0</u>			
30	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A30 PENALTY FOR NON-COMPLETION</u>			
<u>Clause 30.0</u>			
31	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>PAYMENT</u>			
<u>A31 INTERIM PAYMENT TO THE CONTRACTOR</u>			
<u>Clause 31.0</u>			
The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.			
Where prices are submitted by the contractor or nominated/selected sub-contractor 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.			
32	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>A32 ADJUSTMENT TO THE CONTRACT VALUE</u>			
<u>Clause 32.0</u>			
33	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A33 RECOVERY OF EXPENSE AND LOSS</u>			
<u>Clause 33.0</u>			
34	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A34 FINAL ACCOUNT AND FINAL PAYMENT</u>			
<u>Clause 34.0</u>			
35	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A35 PAYMENT TO OTHER PARTIES</u>			
<u>Clause 35.0</u>			
36	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>CANCELLATION</u>			
<u>A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u>			
<u>Clause 36.0</u>			
37	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u>			
<u>Clause 37.0</u>			
38	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u>			
<u>Clause 38.0</u>			
39	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A39 CANCELLATION - CESSATION OF THE WORKS</u>			
<u>Clause 39.0</u>			
40	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>DISPUTE</u>			
<u>A40 DISPUTE SETTLEMENT</u>			
<u>Clause 40.0</u>			
41	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>SUBSTITUTE PROVISIONS</u>			
<u>A41 STATE CLAUSES</u>			
<u>Clause 41.0</u>			
42	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>CONTRACT VARIABLES</u>			
<u>THE SCHEDULE (C1.2 CONTRACT DATA)</u>			
<u>A42 PRE-TENDER INFORMATION</u>			
<u>Clause 42.0</u>			
Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract.			
43	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>SECTION B: JBCC PRELIMINARIES</u>			
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>			
<u>B1.1 Definitions and interpretation</u>			
44	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.0 DOCUMENTS</u>			
<u>B2.1 Checking of documents</u>			
Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
45	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.2 Provisional bills of quantities</u>			
Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
46	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.3 Availability of construction documentation</u>			
47	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.4 Interests of agents</u>			
48	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.5 Priced documents</u>			
49	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.6 Tender submission</u>			
Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.			
50	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>B3.0 THE SITE</u>			
<u>B3.1 Defined works area</u>			
The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.			
The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
51	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.2 Geotechnical investigation</u>			
52	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.3 Inspection of the site</u>			
53	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.4 Existing premises occupied</u>			
54	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.5 Previous work - dimensional accuracy</u>			
55	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.6 Previous work - defects</u>			
56	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.7 Services - known</u>			
57	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.8 Services - unknown</u>			
58	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.9 Protection of trees</u>			
59	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.10 Articles of value</u>			
60	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.11 Inspection of adjoining properties</u>			
61	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.0 MANAGEMENT OF CONTRACT</u>			
<u>B4.1 Management of the works</u>			
62	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>B4.2 Programme for the works</u>			
63	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.3 Progress meetings</u>			
64	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.4 Technical meetings</u>			
65	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.5 Labour and plant records</u>			
66	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
<u>B5.1 Samples of materials</u>			
67	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.2 Workmanship samples</u>			
68	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.3 Shop drawings</u>			
69	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.4 Compliance with manufacturers instructions</u>			
70	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
<u>B6.1 Deposits and fees</u>			
71	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.2 Enclosure of the works</u>			
The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.			
72	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.3 Advertising</u>			
73	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.4 Plant, equipment, sheds and offices</u>			
74	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.5 Main notice board</u>			
75	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection		R	
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
	<u>B6.6 Subcontractors' notice board</u>		
76	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.0 TEMPORARY SERVICES</u>		
	<u>B7.1 Location</u>		
77	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.2 Water</u>		
	The contractor shall provide water for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
78	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.3 Electricity</u>		
	The contractor shall provide electricity for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
79	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.4 Telecommunication facilities</u>		
	The contractor shall provide telephones on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
80	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B7.5 Ablution facilities</u>		
	The contractor shall provide toilet facilities on site for the works in accordance with: Alternative A (i.e. to be provided for by the Contractor).		
81	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B8.0 PRIME COST AMOUNTS</u>		
	<u>B8.1 Responsibility for prime cost amounts</u>		
82	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
	<u>B9.1 General attendance</u>		
83	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B9.2 Special attendance</u>		
84	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B9.3 Commissioning - fuel, water and electricity</u>		
85	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried to Collection			
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>B10.0 FINANCIAL ASPECTS</u>			
<u>B10.1 Statutory taxes, duties and levies</u>			
86	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.2 Payment for preliminaries</u>			
87	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.3 Adjustment of preliminaries</u>			
88	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.4 Payment certificate cash flow</u>			
89	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11. GENERAL</u>			
<u>B11.1 Protection of the works</u>			
90	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.2 Protection / isolation of existing / sectionally occupied works</u>			
91	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.3 Security of the works</u>			
92	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.4 Notice before covering work</u>			
93	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>11.5 Disturbance</u>			
94	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.6 Environmental disturbance</u>			
95	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.7 Works cleaning and clearing</u>			
96	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.8 Vermin</u>			
97	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.9 Overhand work</u>			
98	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.10 Instruction manuals and guarantees</u>			
99	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.11 As built information</u>			
100	Fixed: _____ Value related: _____ Time related: _____	Item	
		Carried to Collection	
Section No. 3		R	
Bill No. 1			
Preliminaries			

			Amount
101	<u>B11.12 Tenant installations</u>		
	Fixed: _____ Value related: _____ Time related: _____	Item	
102	<u>SECTION C: SPECIFIC PRELIMINARIES</u>		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.		
103	<u>C1 CONTRACT DRAWINGS</u>		
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.	Item	
104	<u>C2 GENERAL PREAMBLES</u>		
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department, and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used.	Item	
104	<u>C3 PROPRIETARY BRANDED PRODUCTS</u>		
	The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative. All materials, fittings, finishings, etc., specified hereinafter under a trade name, catalogue number or reference, must be exactly as described. The Architect's approval in writing must be obtained for the use of any alternative to the specification before the submission of tenders otherwise the specified materials, fittings, finishings, etc., will be assumed to have been allowed for in the tender. The Contractor must take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instructions after consultation with the manufacturer's authorised representative.	Item	
Carried to Collection			R
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
<u>C4 CONTRACTOR'S RESPONSIBILITY</u>			
The Employer, the Principal Agent and the other professional consultants shall not be responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects, in materials or workmanship, breach or neglect of any local regulations. The Contractor shall at all times be responsible for any such neglect, deviation or wrong act, whether the same is discovered before or after the final certificate, or any other Certificate, has been approved			
105	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C5 OVERTIME</u>			
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 the execution thereof, that costs for such overtime are to be borne by the employer.			
106	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C6 AS BUILT DRAWINGS</u>			
The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.			
Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion			
107	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>C7 CONTRACT INSTRUCTIONS</u>			
Contract 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. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
a) Contract Instruction Book			
Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
Only instructions issued in such book shall be recognised.			
b) Daily Record Book			
The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
Carried to Collection			
Section No. 3			R
Bill No. 1			
Preliminaries			

			Amount
108	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>C8 LABOUR RECORD</u>			
At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day			
109	F: V: T:	Item	
<u>C9 PLANT RECORD</u>			
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, currently used on the works.			
110	F: V: T:	Item	
<u>C10 ENCROACHMENT</u>			
During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor			
111	F: V: T:	Item	
<u>C11 METHOD STATEMENT</u>			
The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.			
112	F: V: T:	Item	
<u>C12 UNAUTHORISED PERSONS/WORKMEN ON PREMISES</u>			
The Contractor shall at all times strictly exclude all unauthorised persons from the Works and the site and shall set up notice boards to that effect.			
No workmen or labourers (except security guards) are to be allowed under any circumstances to sleep or deposit any kit on the premises. The Contractor must provide any necessary independent shelter or shed required for any labour or watchmen on site, to the approval of the Employer.			
113	F: V: T:	Item	
<u>C13 MODE OF PROCEDURE</u>			
Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.			
Carried to Collection		R	
Section No. 3			
Bill No. 1			
Preliminaries			

			Amount
114	Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost F: V: T: <u>C14 LOCATION OF TEMPORARY BUILDINGS AND TEMPORARY SERVICES</u> The Contractor shall provide all necessary temporary works, including temporary roads, tracks, crossings, hardstanding and services, hoardings, dust screens, tunnelling, etc., required for his own and sub-contractors use during the construction and maintenance period There is no guarantee given or implied that Site conditions will be such that the Contractor will be able to erect such temporary works, roads, hardhats, offices, stores and temporary accommodation within the site boundaries and it shall be the Contractor's responsibility to adopt whatever measures he deems necessary in this regard and to obtain all necessary permission and pay all costs in connection therewith	Item	
115	F: V: T: <u>C15 OFFICE ACCOMMODATION</u> The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]	Item	
116	F: V: T: <u>C16 STORAGE FACILITIES</u> The Contractor shall provide a Container for storage of materials.	Item	
117	F: V: T: <u>C17 REMOVAL AND MAKING GOOD OF TEMPORARY WORKS, ETC, ON COMPLETION</u> The Contractor shall remove (except where specifically stated otherwise) all temporary works, roads, services and the like used for this contract and shall make good to the entire satisfaction of the Principal Agent any damage resulting therefrom.	Item	
118	F: V: T:	Item	
Carried to Collection			
Section No. 3			
Bill No. 1			
Preliminaries			

		Amount
<u>SECTION NO. 3</u>		
<u>NYWARA PRIMARY SCHOOL</u>		
<u>BILL NO. 1</u>		
<u>PRELIMINARIES</u>		
<u>COLLECTION</u>		
	Page No	
Brought Forward from Page	92	
	93	
	94	
	95	
	96	
	97	
	98	
	99	
	100	
	101	
	102	
	103	
	104	
	105	
	106	
Carried To Section Summary	R	
Section No. 3		
Bill No. 1		
Preliminaries		
107		

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NYWARA PRIMARY SCHOOL</u> <u>BILL NO. 2</u> <u>HEALTH AND SAFETY</u> <u>MODEL PREAMBLES</u> The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates. <u>SUPPLEMENTARY PREAMBLES</u> Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles. The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications. Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications. <u>OCCUPATIONAL HEALTH AND SAFETY</u> <u>General</u>				
1	Preparation of Contractor's site specific Health and Safety Plan	Item		
2	Submission of the Health and Safety File	Item		
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations	Item		
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period	Item		
5	Provision of full time Health and Safety Officer for the entire construction period	Item		
6	Induction training of all personnel	Item		
7	Provision of first aid boxes	Item		
Carried to Collection			R	
Section No. 3				
Bill No. 2				
Health And Safety				

	Unit	Quantity	Rate	Amount
8 SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150		
9 Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high	No	1		
<u>Provision for Personal Protective Equipment and</u>				
10 Reflective vests.	Item			
11 Hard hats	Item			
12 Protective footwear	Item			
13 Ear plugs	Item			
14 Dust masks	Item			
<u>Medical certificates and medical surveillance</u>				
15 Initial (baseline) medical examinations for all personnel	Item			
16 Exit Examinations for all personnel	Item			
<u>Noise Monitoring</u>				
17 Establishment of noise zones	Item			
18 Audiograms	Item			
<u>Covid-19 Compliance Measures</u>				
19 The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements	Item			
Carried to Collection			R	
Section No. 3				
Bill No. 2				
Health And Safety				

109

Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 2

HEALTH AND SAFETY

COLLECTION

Page No

Brought Forward from Page

108

109

Carried To Section Summary

Section No. 3

Bill No. 2

Health And Safety

R

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NYWARA PRIMARY SCHOOL</u> <u>BILL NO. 3</u> <u>RENOVATIONS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained <u>General</u> Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent <u>REMOVAL OF EXISTING WORK</u> <u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
1	Corrugated sheet steel roof covering, timber purlins and rafters	m ²	55	
<u>MAKING GOOD OF EXISTING WORK</u> <u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
2	Remove VIP 200 pit pedestals, prepare surface to receive new VIP 450 pit pedestal (new pedestal measured elsewhere)	No	3	
Carried to Collection			R	
Section No. 3				
Bill No. 3				
Renovations				

		Unit	Quantity	Rate	Amount
3	Damaged 40mm soil drainage pipes	m	12		
	<u>Making good tie down straps to existing tanks</u>				
4	New 4mm diameter galvanised wire tank ties wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire bolted into concrete.	No	2		
	<u>Making good falling VIP pedestal steel doors</u>				
5	Secure overhead timber beams to walls using expansion bolts, resecure and realign steel doors and make good plaster and paint	No	7		
	<u>Making good existing security gates</u>				
6	Repair loose hanging or fallen gates by making good brick walls and then re-installing gates into position with new 13mm diameter x 90mm long expansion applied to existing gate hinges	No	3		
	<u>Making good existing timber doors and frames</u>				
7	Making good good falling doors where plugs to walls have failed by repositioning existing timber door frames and secure by installing new anchors/ plugs including refitting doors to hinges and frames.	No	2		
	<u>Making good existing pit latrine chambers</u>				
8	Make good existing manhole cover and frame by taking out cover and frame, make good concrete slab including all necessary formwork and reinforcement chemical anchored to existing concrete and setting in cover and frame into position	No	6		
	<u>BATHROOM FITTINGS</u>				
	<u>Stainless steel bathroom fittings</u>				
9	Free standing She Bin: manufactured from Grade 304 1,2mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity	No	9		
Carried to Collection				R	
Section No. 3					
Bill No. 3					
Renovations					

113

Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 3

RENOVATIONS

COLLECTION

Page No

Brought Forward from Page

111

112

113

Carried To Section Summary

R

Section No. 3

Bill No. 3

Renovations

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u>				
<u>NYWARA PRIMARY SCHOOL</u>				
<u>BILL NO. 4</u>				
<u>ROOF REPAIRS</u>				
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
1	Half brick walls in beam filling	m ²	6	
2	One brick walls	m ²	2	
<u>Galvanised wire ties etc</u>				
3	4mm Diameter roof tie 2m girth bent double, with one end drilled through existing brickwork and wrapped around wall plate and other end fixed to timber	No	42	
<u>FACE BRICKWORK</u>				
<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>				
4	Extra over brickwork for face brickwork	m ²	8	
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>				
<u>0.8mm Z275 spelter galvanised IBR profile steel sheets in single lengths, with 'Chromadek' finish of approved standard colour on one side and standard grey backing finish on reverse side, fixed to timber purlins or rails</u>				
5	Roof covering with pitches not exceeding 25 degrees	m ²	90	
<u>Circular cutting</u>				
6	Circular cutting of roof sheets for vent pipes not exceeding 300mm girth	No	13	
<u>CARPENTRY AND JOINERY</u>				
<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				
Carried to Collection			R	
Section No. 3				
Bill No. 4				
Roof Repairs				

	Unit	Quantity	Rate	Amount
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>ROOF CONSTRUCTION ETC</u>				
<u>Erection certificate</u>				
7 Contractor is to supply a roof erection certificate for all the buildings stating that the erection and installation of the roof rafters has been inspected and approved by a professional registered structural engineer	Item			
<u>Sawn softwood grade 6</u>				
8 38 x 114mm Wall plates bolted	m	42		
9 38 x 76mm Bracing	m	40		
10 152 x 38mm Rafters	m	105		
11 50 x 76mm Purlins	m	125		
<u>EAVES, VERGES, ETC</u>				
<u>High density plain fibre-cement fascias and barge boards</u>				
12 12 x 225mm Fascias and barge boards, including aluminium H-profile jointing strips	m	50		
<u>Fibre-cement socketed barge boards</u>				
13 80 x 275mm Barge boards, including aluminium H-profile jointing strips etc	m	32		
<u>INTERNAL PLASTER</u>				
<u>1:4 Cement plaster wood floated, on brickwork</u>				
14 On walls	m ²	13		
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>PVC-U pipes and fittings</u>				
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings				
<u>Fixing of pipes</u>				
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level				
Carried to Collection			R	
Section No. 3				
Bill No. 4				
Roof Repairs				

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Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 4

ROOF REPAIRS

COLLECTION

Page No

Brought Forward from Page

115

116

117

Carried To Section Summary

R

Section No. 3

Bill No. 4

Roof Repairs

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NYWARA PRIMARY SCHOOL</u> <u>BILL NO. 5</u> <u>GARDEN AND BALUSTRADE WALLS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>EARTHWORKS (PROVISIONAL)</u> <u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
1	Surface trenches.	m ³	29	
	<u>Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:</u>			
2	Soft rock.	m ³	3	
3	Hard rock.	m ³	1	
4	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m ²	118	
5	Allow for keeping excavations entirely free from water or mud.	Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density</u>			
6	Backfilling to trenches, holes, etc.	m ³	6	
7	Scarify in-situ material for a depth of 150mm and compact to obtain 98% modified AASHTO dry density.	m ²	49	
	<u>Earth filling supplied by the contractor, compacted to 98% Mod AASHTO density</u>			
8	Under floors, steps, pavings, etc.	m ³	5	
Carried to Collection			R	
Section No. 3 Bill No. 5 Garden And Balustrade Walls				

		Unit	Quantity	Rate	Amount
<u>CONCRETE, FORMWORK & REINFORCEMENT</u>					
<u>25MPa Mass concrete in:</u>					
9	Wall footings cast against excavated surfaces.	m ³	10		
<u>Expansion Joints:</u>					
10	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	1		
<u>TEST CUBES</u>					
<u>Test Cubes</u>					
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
<u>MASONRY</u>					
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>					
12	One brick wall.	m ²	88		
<u>2,5mm Galvanised brick reinforcement</u>					
13	150mm Wide reinforcement built in horizontally	m	294		
<u>Facings Externally:</u>					
<u>"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):</u>					
14	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m ²	118		
15	Brick on edge coping in header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	98		
<u>PAINTING</u>					
<u>Clean down with Spirits of Salts solution and apply two coats silicone-based brick dressing on:</u>					
16	Clinker brick facings (Externally).	m ²	118		
Carried to Collection				R	
Section No. 3					
Bill No. 5					
Garden And Balustrade Walls					

Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 5

GARDEN AND BALUSTRADE WALLS

COLLECTION

Page No

Brought Forward from Page

119

120

Carried To Section Summary

R

Section No. 3

Bill No. 5

Garden And Balustrade Walls

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NYWARA PRIMARY SCHOOL</u> <u>BILL NO. 6</u> <u>V – DRAINS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground:</u> The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock' <u>Carting away of excavated material:</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site <u>Filling:</u> Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material <u>Testing:</u> Prices for filling are to include for all necessary density tests in accordance with SABS 1200D <u>Cost of tests:</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 Tests of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)				
Carried to Collection			R	
Section No. 3				
Bill No. 6				
V – Drains				

		Unit	Quantity	Rate	Amount
	<u>EXCAVATION ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Reduced levels under pavings	m ³	20		
	<u>Extra over all excavations for carting away</u>				
2	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m ³	20		
	<u>FILLING ETC OTHER THAN BULK</u>				
	<u>Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
3	Under floors, steps, pavings, etc.	m ³	13		
	<u>Coarse river sand filling supplied by the contractor</u>				
4	Under pavings etc.	m ³	4		
	<u>Compaction of surfaces</u>				
5	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m ²	85		
	<u>Prescribed density tests on filling</u>				
6	Modified AASHTO Density test	No	4		
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
7	Under surface pavings etc.	m ²	85		
	<u>STORMWATER DRAINAGE (PROVISIONAL)</u>				
	<u>Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar:</u>				
8	Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway.	m	122		
9	Extra for angle.	No	5		
10	Extra for fair end.	No	2		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 6				
	V – Drains				

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Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 6

V – DRAINS

COLLECTION

Page No

Brought Forward from Page

122

123

124

Carried To Section Summary

R

Section No. 3

Bill No. 6

V – Drains

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>NYWARA PRIMARY SCHOOL</u> <u>BILL NO. 7</u> <u>CONCRETE APRONS, WALKWAYS & RAMPS</u> <u>PREAMBLES</u> The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities <u>EARTHWORKS (PROVISIONAL)</u> <u>Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:</u>				
1 Reduce levels under pavings.	m ³	4		
2 Allow for keeping excavations entirely free from water or mud.	Item			
3 Scarify in-situ material for a depth of 150mm and compact to obtain 95% modified AASHTO dry density.	m ²	24		
<u>Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
4 Under floors, steps, pavings, etc.	m ³	4		
<u>CONCRETE, FORMWORK & REINFORCEMENT</u> <u>25MPa Mass concrete in:</u>				
5 Ramps	m ³	2		
6 Aprons	m ³	1		
<u>Sundries:</u>				
7 Strike off and cure tops of surface beds laid in panels approximately 1000mm long x 1000mm wide to uniform levels including all necessary formwork to form toggle joints to temporary construction joints to falls.	m ²	24		
8 Extra for floating off smooth tops of surface beds laid in panels ta brush finish including slightly rounded edges to panels.	m ²	24		
Carried to Collection			R	
Section No. 3				
Bill No. 7				
Concrete Aprons, Walkways & Ramps				

[illegible]

Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 7

CONCRETE APRONS, WALKWAYS & RAMPS

COLLECTION

Page No

Brought Forward from Page

126

127

Carried To Section Summary

Section No. 3

Bill No. 7

Concrete Aprons, Walkways & Ramps

R

129

		Unit	Quantity	Rate	Amount
6	150mm Ditto as straining or corner posts, but fitted with two 75mm diameter galvanised steel raking stays and with top ends flattened and bolted through post with post embedded in 600 x 600 x 700mm high mass concrete (15MPa) base and stays embedded in 700 x 700 x 450mm high mass concrete (15MPa) base	No	5		
7	150mm Ditto as end/ gate post, but fitted with one 75mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post embedded in 600 x 600 x 700mm mass concrete (15MPa) base and stay embedded in 700 x 700 x 450mm high mass concrete (15MPa) base with all base tops set raking (sloping)	No	7		
	<u>Gates</u>				
8	Security fence single gate, size 900 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, with 20mm diameter x 300mm long locking bolt welded on and a pair of heavy duty gate hooks for a 16mm band hinge pin welded on to gate and including a pair of 16mm band hinge pins bolted to gate posts	No	1		
9	Security fence single gate, size 1500 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, hung on pair of socketted and pinned hinges with pin 18mm in diameter and bolted to brick wall and with 20mm diameter x 300mm long locking bolt welded on.	No	1		
10	Double gate, size 6 000 mm wide x 1 800 mm high overall in two leaves, formed of 50 mm diameter nominal bore x 2.5 mm wall thickness hot dip galvanised mild steel pipe framing all round with 25 mm diameter nominal bore x 2.0 mm wall thickness diagonal and centre braces, scribed and welded into angles and at cross intersections, gate filled with 50 x 50 x 2,0mm galvanised wire diamond mesh, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, each leaf fitted with two 25 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1		
	Carried to Collection			R	
	Section No. 3				
	Bill No. 8				
	Grade R Fencing				

	Unit	Quantity	Rate	Amount
<u>Locks</u> 11 50mm "Viro" or other equally approved padlocks for external use.	No	3		
Carried to Collection			R	
Section No. 3 Bill No. 8 Grade R Fencing				

131

Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 8

GRADE R FENCING

COLLECTION

Page No

Brought Forward from Page

129

130

131

Carried To Section Summary

R

Section No. 3

Bill No. 8

Grade R Fencing

Amount

SECTION NO. 3

NYWARA PRIMARY SCHOOL

BILL NO. 9

PROVISIONAL SUMS

BUDGETARY ALLOWANCES

PROVISIONAL SUMS

Supplementary Preambles

Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.

Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related thereto.

Sundry building work

- 1 Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)

Item 22 500 00

- 2 Profit

Item

- 3 Attendance

Item

- 4 Provide the sum of R105 000. 00 for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire constructions period

Item 105 000 00

- 5 Profit

Item

- 6 Attendance

Item

Contingencies

- 7 Allow the Amount of R35 000.00 (Thirty Five Thousan Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.

Item 35 000 00

Carried To Section Summary

R

Section No. 3

Bill No. 9

Provisional Sums

Amount

SECTION NO. 3
NYWARA PRIMARY SCHOOL
SECTION SUMMARY

Bill No.		Page
1	PRELIMINARIES	107
2	HEALTH AND SAFETY	110
3	RENOVATIONS	114
4	ROOF REPAIRS	118
5	GARDEN AND BALUSTRADE WALLS	121
6	V – DRAINS	125
7	CONCRETE APRONS, WALKWAYS & RAMPS	128
8	GRADE R FENCING	132
9	PROVISIONAL SUMS	133

Section No. 3
SECTION SUMMARY

Carried to Final Summary

R

[illegible]