

SECTION 1

NOTES TO TENDERERS

1. ALTERATIONS TO TENDER DOCUMENT

No alterations, erasures, omissions or additions are to be made to the text of this document. Should any such alteration, erasure, omission or addition be made it will not be recognized and the reading of the items, as prepared by the Quantity Surveyor, will be adhered to.

The tenderers must check that they have been provided with all the necessary documents. They must advise the Quantity Surveyor immediately if there is any duplication or ambiguity or if there is any doubt as to the meaning of any word, clause, sentence, paragraph, specification or any particulars and have the matter rectified in writing. No liability whatsoever will be admitted in respect of errors in the tender due to the foregoing.

2. LOCATION KEY

The following location key apply equally to all bills in this document.

Location A: Admin Block - Block B

Location B: 3 Classrooms Block - Blocks C & G

Location C: 3 Classrooms+Ablution Block - Blocks E & F

Location D: 2 Classrooms+HOD - Block D

Location E: Science Lab - Block I

Location G: Media centre - Block H

Location H: Multi-purpose Classroom Block - Block L

Location J: Nutrition Block - Block J

Location L: Change rooms - Block M

Location M: Security room - Block A

Location K: Grade R - Block K

Section 1: Notes to Tenderers
Notes to Tenderers

CONTRACT/TENDER NO: RFP 347/2022

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO. 1: PRELIMINARIES</u></p> <p><u>MEANING OF TERMS "TENDER / TENDERER"</u></p> <p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"</p> <p>The JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause</p> <p>The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents</p>				
	<p style="text-align: right;">Carried to Collection</p>			R	
	<p>Section 2: Preliminaries and Generals Bill No. 1: Preliminaries</p>				
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>				

<u>PRICING OF PRELIMINARIES</u>					
<p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities</p>					
<u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u>					
<u>DEFINITIONS</u>					
1 A1.0 DEFINITIONS AND INTERPRETATION					
Clause 1.0					
Clause 1.1 Definition of " Commencement Date " is added:					
" COMMENCEMENT DATE " means the date that the agreement , made in terms of the Form of Offer and Acceptance, comes into effect					
Clause 1.1 Definition of " Construction Guarantee " is amended by replacing it with the following:					
" CONSTRUCTION GUARANTEE " means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule					
Clause 1.1 Definition of " Construction Period " is amended by replacing it with the following:					
" CONSTRUCTION PERIOD " means the period commencing on the commencement date and ending on the date of practical completion					
Clause 1.1 Definition of " Corrupt Practice " is added:					
Carried to Collection				R	
Section 2: Preliminaries and Generals Bill No. 1: Preliminaries					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

"CORRUPT PRACTICE" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution

Clause 1.1 Definition of **"Fraudulent Practice"** is added:

"FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition

Clause 1.1 Definition of **"Interest"** is amended by replacing it with the following:

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999)

Clause 1.1 Definition of **"Principal Agent"** is amended by replacing it with the following:

"PRINCIPAL AGENT" means the person or entity appointed by the **employer** and named in the **schedule**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by a representative of the **employer** as named in the **schedule**

Clause 1.1 Definition of **"Security"** is amended by replacing it with the following:

"SECURITY" means the form of security provided by the **employer** or **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expense or loss

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

-6-

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable
- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

(e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed

(f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

The **contractor** shall, from the **commencement date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

10.7.2 Injury to persons or loss of or damage to property

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of, or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

Fixed: _____ Value related: _____

Time related: _____

Item

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty-one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.3.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**

14.3.3 Within twenty-one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party

14.4 Where **security** as a variable **construction guarantee** of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.4.2 The variable **construction guarantee** shall reduce and expire in terms of the Variable **Construction Guarantee** form included in the invitation to tender

14.4.3 The **employer** shall return the variable **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

14.5 Where **security** as a fixed **construction guarantee** of five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.5.1 The **contractor** shall furnish a fixed **construction guarantee** to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)

14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of the last certificate of **practical completion**

14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both

14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.6.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be 5%

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2, the employer, in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 14.7 shall be applicable</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p> <p><u>EXECUTION</u></p>					
15	<p>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</p> <p>Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date</p>					
	<p>Carried to Collection</p>				R	
	<p>Section 2: Preliminaries and Generals Bill No. 1: Preliminaries</p>					

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

-16-

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

20	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>					
21	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>		Item			
22	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>		Item			
23	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>		Item			
<p style="text-align: right;">Carried to Collection</p>						
<p>Section 2: Preliminaries and Generals</p> <p>Bill No. 1: Preliminaries</p>						
<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>						

	<u>COMPLETION</u>				
24	A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed:_____ Value related:_____ Time related:_____		Item		
25	A25.0 WORKS COMPLETION Clause 25.0 Fixed:_____ Value related:_____ Time related:_____		Item		
26	A26.0 FINAL COMPLETION Clause 26.0 Clause 26.1.2 is amended by inserting "#" next to 26.1.2 Fixed:_____ Value related:_____ Time related:_____		Item		
27	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed:_____ Value related:_____ Time related:_____		Item		
28	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed:_____ Value related:_____ Time related:_____		Item		
	Carried to Collection			R	
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

29	A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed:_____ Value related:_____ Time related:_____					
30	A30.0 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed:_____ Value related:_____ Time related:_____		Item			
	<u>PAYMENT</u>					
31	A31.0 INTERIM PAYMENT TO THE CONTRACTOR Clause 31.0 Clause 31.5.2 is amended by replacing "14.7.1" with "14.0" Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion					
	<p style="text-align: right;">Carried to Collection</p> <p>Section 2: Preliminaries and Generals Bill No. 1: Preliminaries</p>				R	
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Alternative B

31.8(B) Where **security** as a payment reduction in terms of 14.7 has been selected, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.12 is amended by deleting the following:

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

<p>34</p>	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>				
<p>35</p>	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>		<p>Item</p>		
	<p>Carried to Collection</p> <p>Section 2: Preliminaries and Generals</p> <p>Bill No. 1: Preliminaries</p>			<p>R</p>	

CONTRACT/TENDER NO: RFP 347/2022

-23-

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

37	<p>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>				
38	<p>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p>		Item		
	<p style="text-align: center;">Carried to Collection</p> <p>Section 2: Preliminaries and Generals Bill No. 1: Preliminaries</p>			R	

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

	<p><u>DISPUTE</u></p>				
40	<p>A40.0 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p> <p><u>SUBSTITUTE PROVISIONS</u></p>		Item		
41	<p>A41.0 STATE CLAUSES</p> <p>Clause 41.0</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p> <p><u>CONTRACT VARIABLES</u></p>		Item		
42	<p>A42.0 THE SCHEDULE (DPW-04EC)</p> <p>Clause 42.0</p> <p>Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract</p> <p>Fixed:_____ Value related:_____</p> <p>Time related:_____</p>		Item		
	<p>Carried to Collection</p>			R	
	<p>Section 2: Preliminaries and Generals</p> <p>Bill No. 1: Preliminaries</p>				
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

	<u>SECTION B: JBCC PRELIMINARIES</u>				
	<u>B1.0 DEFINITIONS AND INTERPRETATION</u>				
43	<i>B1.1 Definitions and interpretation</i> See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section Fixed: _____ Value related: _____ Time related: _____			Item	
	<u>B2.0 DOCUMENTS</u>				
44	<i>B2.1 Checking of documents</i> Fixed: _____ Value related: _____ Time related: _____			Item	
45	<i>B2.2 Provisional bills of quantities</i> Fixed: _____ Value related: _____ Time related: _____			Item	
46	<i>B2.3 Availability of construction documentation</i> Fixed: _____ Value related: _____ Time related: _____			Item	
47	<i>B2.4 Interests of agents</i> Fixed: _____ Value related: _____ Time related: _____			Item	
48	<i>B2.5 Priced documents</i> Fixed: _____ Value related: _____ Time related: _____			Item	
	Carried to Collection				R
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

EMIS NUMBER: 600102163

-28-

56	B3.7 Services - known Fixed: _____ Value related: _____ Time related: _____		Item		
57	B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____		Item		
58	B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____		Item		
59	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____		Item		
60	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B4.0 MANAGEMENT OF CONTRACT</u>				
61	B4.1 Management of the works Fixed: _____ Value related: _____ Time related: _____		Item		
62	B4.2 Programme for the works Fixed: _____ Value related: _____ Time related: _____		Item		
	Carried to Collection			R	
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

63	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____		Item		
64	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____		Item		
65	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>				
66	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____		Item		
67	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____		Item		
68	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____		Item		
69	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____		Item		
	Carried to Collection			R	
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

	<u>B6.0 TEMPORARY WORKS AND PLANT</u>				
70	<i>B6.1 Deposits and fees</i> Fixed: _____ Value related: _____ Time related: _____		Item		
71	<i>B6.2 Enclosure of the works</i> Fixed: _____ Value related: _____ Time related: _____		Item		
72	<i>B6.3 Advertising</i> Fixed: _____ Value related: _____ Time related: _____		Item		
73	<i>B6.4 Plant, equipment, sheds and offices</i> Fixed: _____ Value related: _____ Time related: _____		Item		
74	<i>B6.5 Main notice board</i> Fixed: _____ Value related: _____ Time related: _____		Item		
75	<i>B6.6 Subcontractors' notice board</i> Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B7.0 TEMPORARY SERVICES</u>				
76	<i>B7.1 Location</i> Fixed: _____ Value related: _____ Time related: _____		Item		
	Carried to Collection			R	
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

77	B7.2 Water Fixed: _____ Value related: _____ Time related: _____		Item		
78	B7.3 Electricity Fixed: _____ Value related: _____ Time related: _____		Item		
79	B7.4 Telecommunication facilities Fixed: _____ Value related: _____ Time related: _____		Item		
80	B7.5 Ablution facilities Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B8.0 PRIME COST AMOUNTS</u>				
81	B8.1 Responsibility for prime cost amounts Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>				
82	B9.1 General attendance Fixed: _____ Value related: _____ Time related: _____		Item		
83	B9.2 Special attendance Fixed: _____ Value related: _____ Time related: _____		Item		
	Carried to Collection			R	
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

84	B9.3 Commissioning - fuel, water and electricity Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B10.0 FINANCIAL ASPECTS</u>				
85	B10.1 Statutory taxes, duties and levies Fixed: _____ Value related: _____ Time related: _____		Item		
86	B10.2 Payment for preliminaries Fixed: _____ Value related: _____ Time related: _____		Item		
87	B10.3 Adjustment of preliminaries <p>Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"</p> Fixed: _____ Value related: _____ Time related: _____		Item		
88	B10.4 Payment certificate cash flow Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B11.0 GENERAL</u>				
89	B11.1 Protection of the works Fixed: _____ Value related: _____ Time related: _____		Item		
	Carried to Collection			R	
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

90	B11.2 Protection / isolation of existing / sectionally occupied works Fixed: _____ Value related: _____ Time related: _____							
				Item				
91	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____							
				Item				
92	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____							
				Item				
93	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____							
				Item				
94	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____							
				Item				
95	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____							
				Item				
96	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____							
				Item				
Carried to Collection							R	
Section 2: Preliminaries and Generals Bill No. 1: Preliminaries								
CONTRACT/TENDER NO: RFP 347/2022								

97	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____		Item		
98	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____		Item		
99	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____		Item		
100	B11.12 Tenant installations Fixed: _____ Value related: _____ Time related: _____		Item		
	<u>B12.0 SCHEDULE OF VARIABLES</u>				
101	B12.1 Schedule of variables Fixed: _____ Value related: _____ Time related: _____ This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule . Key cross reference clauses are italicised in [] brackets		Item		
	Carried to Collection			R	
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
	CONTRACT/TENDER NO: RFP 347/2022				

12.1 PRE-TENDER INFORMATION				
12.1.1 Provisional bills of quantities [2.2] The quantities are provisional YES				
12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i> NO				
12.1.3 Interests of agents [2.4] Details:				
12.1.4 Defined works area [3.1] Details:				
12.1.5 Geotechnical investigation [3.2] Details:				
12.1.6 Existing premises occupied [3.4] Specific requirements:				
12.1.7 Previous work - dimensional accuracy [3.5] Details:				
12.1.8 Previous work - defects [3.6] Details:				
12.1.9 Services - known [3.7] Details:				
12.1.10 Protection of trees [3.9] Specific requirements:				
12.1.11 Inspection of adjoining properties [3.11] Specific requirements:				
Carried to Collection			R	
Section 2: Preliminaries and Generals Bill No. 1: Preliminaries				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

12.1.12 Enclosure of the works

[6.2] Specific requirements:

12.1.13 Offices

[6.4.3] Specific requirements:

The **contractor** shall provide, maintain and remove on completion of the works an office for the exclusive use of the **principal agent**, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times

12.1.14 Main notice board

[6.5] Specific requirements:

The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering

12.1.15 Subcontractors' notice board

[6.6] A notice board is required

NO

Specific requirements:

Carried to Collection

R

Section 2: Preliminaries and Generals

Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

12.1.16 Water

[7.2] Option A (by **contractor**)
NO

Option B (by **employer** - free of charge)
NO

Option C (by **employer** - metered)
YES

12.1.17 Electricity

[7.3] Option A (by **contractor**)
NO

Option B (by **employer** - free of charge)
NO

Option C (by **employer** - metered)
YES

12.1.18 Telecommunications

[7.4] Telephone
NO

Facsimile
NO

E-mail
NO

12.1.19 Ablution facilities

[7.5] Option A (by **contractor**)
YES

Option B (by **employer**)
NO

12.1.20 Protection of existing/sectionally occupied works

[11.2] Protection is required
YES

Carried to Collection

R

Section 2: Preliminaries and Generals
Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

12.1.21 **Special attendance**
 [9.2] **Subcontractor** (1) details:

Subcontractor (2) details:

Subcontractor (3) details:

Subcontractor (4) details:

12.1.22 **Protection of the works**
 [11.1] Specific requirements:

12.1.23 **Disturbance**
 [11.5] Specific requirements:
 The **contractor** shall keep the site, structures,
 etc well watered during operations to prevent
 dust and shall provide and erect and remove on
 completion of the **works** all necessary
 temporary dust screens all to the satisfaction of
 the **principal agent**

12.1.24 **Environmental disturbance**
 [11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**
 [10.2] Option A (prorated)
 YES

Option B (calculated)
 NO

12.2.2 **Adjustment of preliminaries**
 [10.3] Option A (three categories)
 YES

Option B (detailed breakdown)
 NO

Carried to Collection

R

Section 2: Preliminaries and Generals
 Bill No. 1: Preliminaries

CONTRACT/TENDER NO: RFP 347/2022

	12.2.3 Additional agreed preliminaries items Details:				
	<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				
102	C1.0 CONTRACT DRAWINGS				
	* The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed				
	Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent				
	Fixed: _____ Value related: _____				
	Time related: _____		Item		
103	C2.0 GENERAL PREAMBLES				
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines"), 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				
	Fixed: _____ Value related: _____				
	Time related: _____		Item		
	Carried to Collection				
	Section 2: Preliminaries and Generals Bill No. 1: Preliminaries			R	
	CONTRACT/TENDER NO: RFP 347/2022				

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

110	<p>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</p> <p>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister</p> <p>The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>					
111	<p>C10.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>					
	<p>Carried to Collection</p>				R	
	<p>Section 2: Preliminaries and Generals Bill No. 1: Preliminaries</p>					
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

C10.1 AWARENESS CHAMPION	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification	Fixed:_____ Value related:_____	Time related:_____	Item	R
C10.2 AWARENESS WORKSHOPS	Selection and appointment of a competent Service Provider approved by the principal agent , provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification	Fixed:_____ Value related:_____	Time related:_____	Item	
C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period , all in accordance with the HIV/AIDS Specification	Fixed:_____ Value related:_____	Time related:_____	Item	
Carried to Collection					
Section 2: Preliminaries and Generals Bill No. 1: Preliminaries					
CONTRACT/TENDER NO: RFP 347/2022					

C10.4 ACCESS TO CONDOMS	Item	R
<p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>		
C10.5 MONITORING	Item	R
<p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____</p> <p>Time related: _____</p>		
Carried to Collection		
<p>Section 2: Preliminaries and Generals Bill No. 1: Preliminaries</p>		
CONTRACT/TENDER NO: RFP 347/2022		

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

-47-

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

COLLECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

COLLECTION		Page No	Amount
Brought Forward			R
Total Brought Forward from Page No.		25	
		26	
		27	
		28	
		29	
		30	
		31	
		32	
		33	
		34	
		35	
		36	
		37	
		38	
		39	
		40	
		41	
		42	
		43	
		44	
		45	
		46	
Carried Forward			R
Section 2: Preliminaries and Generals			
Bill No. 1: Preliminaries			
CONTRACT/TENDER NO: RFP 347/2022			

EMIS NUMBER: 600102163

-54-

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO.1: DEMOLITIONS</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p>NOTE: The contractor is advised to study the Architect's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p>NOTE Unless otherwise described, the full description and specifications in the supplementary preambles in the preceding Bills are to apply equally to the short descriptions used in this Bill.</p> <p>OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR: Old materials from alterations, except where described to be re-used or handed over, become the property of the contractor who must allow credit for same in the Final Summary</p> <p>OLD MATERILS TO BE CARTED AWAY: Old material from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site</p>			
	Carried to Collection		R	
	Section 3: Building Works Bill No. 1: Demolitions			
	CONTRACT/TENDER NO: RFP 347/2022			

SUPPLEMENTARY PREAMBLES

Removal of trees

Removal of trees is to be avoided. Only those that are deemed to be in the way will be removed. No trees will be removed without the approval of the Project manager.

Existing services

Demolitions of buildings, services, external works, site services, etc. are to include for proper and approved termination of services.

All existing services will be stopped at appropriate connection points. Care shall be taken not to disrupt services to neighbouring residential areas inadvertently.

During this process also, access to the site itself for works shall be constructed and a potential sitting of offices to be used during construction shall be identified.

The Contractor is responsible for disconnection of all utilities, plugging of sewer taps, or connection.

Hazardous materials

Demolitions of buildings, services, external works, site services, etc. are to include for the safe removal and disposal of asbestos or asbestos products or other hazardous materials

Carried to Collection

R

Section 3: Building Works
Bill No. 1: Demolitions

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.**EMIS NUMBER: 600102163**Nature and extent

The Contractor shall completely demolish the buildings, etc in a careful, skilful, practical and safe manner including breaking and crabbing all foundation materials, etc

Demolitions shall include breaking up and removing: all floors and surface beds including foundations; all external screen walls, steps, ramps, aprons, surface water channels, rainwater sumps, gulleys, etc attached to the building to be demolished; all services, manholes, etc in ground to a point not less than 1m beyond the perimeter of the building including plugging off ends of all remaining pipes, drains, etc, filling in holes where necessary and ramming and levelling to ground level.

Disposal of debris, etc.

The Contractor shall be responsible for the removal from site of all materials, rubble, debris and rubbish resulting from demolitions.

The Contractor shall provide all labor and equipment necessary for the removal and disposal of the structures identified

Debris shall be taken off site throughout the demolition process. The Contractor shall not allow debris to accumulate during demolition.

Cart away of excavated material

Descriptions of cart away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or from stock piles situated on the building site

Disposal of Construction Demolition waste.

The contractor is further referred to Construction and Demolitions Waste Specification attached to this document.

Environmental Management Plan

The contractor is further referred to Environmental Management Plan Specification attached to this document.

Carried to Collection**R**

Section 3: Building Works
Bill No. 1: Demolitions

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>Health and Safety Plan</u> Occupational Health and Safety considerations including environmental considerations will be made to ensure the works are undertaken with full compliance to the relevant regulations. The Contractor shall document the current conditions of all roadways, sidewalks and all structures to remain in the demolition area. In addition, all roadways along the haul routes shall be documented. The Contractor shall prepare a Contractor Safety Plan to affirm the commitment to the Safety Program and identify the procedures to be used to satisfy the requirements of the Program. The contractor is further referred to Construction Health and Safety Specification attached to this document.					
<u>DEMOLITIONS</u> <u>Digging, taking out and removing the underground services and filling up trenches</u>					
1	Underground pipes, cables, manhole, etc	m	120		
<u>Taking down and removing</u>					
2	Taking down and removing diamond Mesh Fence 1800mm high with posts cast into concrete bases at 2000mm centres, with and including Gates and set aside	m	120		
3	Taking down and demolition of existing building structure overall floor area 7.492 x 6.722 and remove rubble from site. Demolition shall include removal of reinforced concrete slabs, foundations, brickwalls (internal and external) floor finishes ceilings, electrical, mechanical and plumbing fittings.	No	1		
Carried to Collection				R	
Section 3: Building Works Bill No. 1: Demolitions					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.**EMIS NUMBER: 600102163**

4	Taking down and demolition of existing building structure overall floor area 22.56 x 7.22 and remove rubble from site. Demolition shall include removal of reinforced concrete slabs, foundations, brickwalls (internal and external) floor finishes ceilings, electrical, mechanical and plumbing fittings.	No	1		
<u>BUDGETARY ALLOWANCES</u>					
<u>DISCONNECTION OF SERVICES (PROVISIONAL)</u>					
5	Allow the Provisional Amount of R20 000.00 (Twenty Thousand Rand) NET for disconnection of Water and Sewer Services and diversion thereof		Item		20 000.00
<u>REFURBISHMENT OF EXISTING BOREHOLES (PROVISIONAL)</u>					
6	Allow the Provisional Amount of R 140 000.00 (One Hundred and Forty Thousand Rand) NET for Refurbishment of boreholes		Item		140 000.00
Carried to Collection				R	
Section 3: Building Works Bill No. 1: Demolitions					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		55	
		56	
		57	
		58	
		59	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works			
Bill No. 1: Demolitions			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 2: EARTHWORKS (PROVISIONAL)</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>SOILS INVESTIGATION REPORT</u></p> <p>A soils investigation has been carried out on site by the engineer and the report can be viewed at the Engineer's offices.</p> <p><u>NATURE OF GROUND</u></p> <p>Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above soil investigation report, and where conditions of a more difficult character are indicated, these are separately measured</p> <p><u>EXCAVATIONS IN CONDITIONS OTHER THAN "EARTH"</u></p> <p>Should the contractor consider that the excavation at any point are in "soft rock" or "hard rock", he must notify the Representative / Agent immediately in order that an inspection may be made and a decision arrived at by the Representative / Agent as to the category of such excavation. Should the contractor fail to give such notification, the excavation shall be deemed to be in earth and shall be valued accordingly</p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section 3: Building Works Bill No. 2: Earthworks (Provisional)</p>			
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			

SUBTERRANEAN WATER

The information on subterranean water is included in the soils investigation report can be viewed at the Engineer's offices.

WORKING SPACE

Formwork and working space has been measured to the sides of concrete wall footings & bases and no formwork or additional backfilling necessary due to over excavations will be measured to wall footings. Backfilling to such over excavations areas must be compacted to the same degree and in the same manner as the backfilling to the remainder of such excavation, only required if specified by the Engineer.

CART AWAY OF EXCAVATED MATERIAL

Descriptions of cart away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or from stock piles situated on the building site

Carried to Collection

R

Section 3: Building Works
Bill No. 2: Earthworks (Provisional)

CONTRACT/TENDER NO: RFP 347/2022

<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth or compacted filling not exceeding 2m deep</u>					
1	Trenches	m3	919		
	A : 105 B : 148 C : 190 D : 68				
	E : 73 G : 67 H : 51 J : 93				
	L : 44 M : 12 W : 68				
2	Holes	m3	20		
	A : 3 B : 5 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 12				
	L : 0 M : 0 W : 0				
<u>Extra over excavations in earth for excavation in:</u>					
3	Soft rock	m3	282		
	A : 11 B : 56 C : 71 D : 25				
	E : 22 G : 17 H : 14 J : 25				
	L : 21 M : 3 W : 17				
4	Hard rock	m3	305		
	A : 5 B : 58 C : 74 D : 26				
	E : 26 G : 22 H : 17 J : 31				
	L : 20 M : 4 W : 22				
<u>Extra over all excavations for carting away</u>					
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	842		
	A : 74 B : 152 C : 196 D : 68				
	E : 63 G : 50 H : 40 J : 79				
	L : 60 M : 10 W : 50				
<u>Risk of collapse of excavations</u>					
6	Sides of trenches	m2	2 449		
	A : 279 B : 395 C : 506 D : 182				
	E : 195 G : 178 H : 136 J : 248				
	L : 118 M : 32 W : 180				
Carried to Collection				R	
Section 3: Building Works Bill No. 2: Earthworks (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>Keeping excavations free of water</u>				
7	Keeping excavations free of water A : 1.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 G : 0.00 H : 0.00 J : 0.00 L : 0.00 M : 0.00 W : 0.00		Item	
<u>FILLING, ETC</u>				
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 100% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc A : 32 B : 168 C : 207 D : 71 E : 55 G : 35 H : 32 J : 104 L : 70 M : 7 W : 36	m3	817	
<u>Earth filling of G7 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density</u>				
9	Under floors, steps, pavings, etc A : 63 B : 77 C : 90 D : 33 E : 32 G : 32 H : 22 J : 50 L : 19 M : 2 W : 39	m3	459	
10	Backfilling to trenches, holes, etc A : 55 B : 78 C : 101 D : 36 E : 39 G : 87 H : 27 J : 49 L : 23 M : 6 W : 36	m3	537	
<u>32mm gravel filling supplied by the contractor</u>				
11	In Ducts A : 18 B : 0 C : 0 D : 13 E : 14 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	45	
<u>Coarse river sand filling supplied by the contractor</u>				
12	Under floors etc A : 18 B : 26 C : 30 D : 10 E : 10 G : 11 H : 7 J : 17 L : 5 M : 1 W : 13	m3	148	
Carried to Collection				R
Section 3: Building Works Bill No. 2: Earthworks (Provisional)				
CONTRACT/TENDER NO: RFP 347/2022				

<u>Compaction of surfaces</u>					
13	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 93% Mod AASHTO density A : 365 B : 512 C : 600 D : 206 E : 193 G : 215 H : 149 J : 336 L : 99 M : 11 W : 260	m2	2 946		
<u>Prescribed density tests on filling</u>					
14	"Modified AASHTO Density" test A : 10 B : 13 C : 15 D : 5 E : 5 G : 5 H : 4 J : 8 L : 3 M : 1 W : 7	No	76		
<u>SOIL POISONING AND PROTECTION AGAINST TERMITES</u>					
<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>					
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming A : 365 B : 512 C : 600 D : 206 E : 193 G : 215 H : 149 J : 336 L : 99 M : 11 W : 260	m2	2 946		
16	To bottoms and sides of trenches, etc A : 680 B : 1292 C : 1692 D : 554 E : 400 G : 234 H : 222 J : 398 L : 550 M : 53 W : 240	m2	6 315		
Carried to Collection				R	
Section 3: Building Works Bill No. 2: Earthworks (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		61	
		62	
		63	
		64	
		65	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works Bill No. 2: Earthworks (Provisional)			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 3: CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>FORMWORK TO BASES, PILE CAPS, ETC</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section 3: Building Works Bill No. 3: Concrete, Formwork and Reinforcement</p>			
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			

	Formwork to sides of bases, pile caps, etc will only be measured where it is prescribed for design reasons							
	Formwork necessitated by irregularity or collapse of excavated surfaces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"							
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>							
	<u>15MPa/19mm Concrete in:</u>							
1	Blinding			m3	124			
	A : 18	B : 22	C : 31	D : 9				
	E : 8	G : 5	H : 4	J : 9				
	L : 10	M : 1	W : 7					
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>							
	<u>25 MPa/19mm Concrete in:</u>							
2	Strip footings			m3	527			
	A : 66	B : 115	C : 150	D : 41				
	E : 35	G : 17	H : 17	J : 23				
	L : 42	M : 4	W : 17					
3	Bases			m3	4			
	A : 2	B : 0	C : 2	D : 0				
	E : 0	G : 0	H : 0	J : 0				
	L : 0	M : 0	W : 0					
4	Plinth			m3	6			
	A : 0	B : 0	C : 0	D : 0				
	E : 0	G : 0	H : 0	J : 6				
	L : 0	M : 0	W : 0					
	<u>REINFORCED CONCRETE</u>							
	<u>25 MPa/19mm Concrete in:</u>							
5	Surface beds cast in panels on waterproofing			m3	300			
	A : 39	B : 51	C : 60	D : 21				
	E : 21	G : 22	H : 15	J : 34				
	L : 10	M : 1	W : 26					
	Carried to Collection						R	
	Section 3: Building Works							
	Bill No. 3: Concrete, Formwork and Reinforcement							
	CONTRACT/TENDER NO: RFP 347/2022							

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

6	Filling to cavity of hollow walls A : 15 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m3	15		
<u>REINFORCED CONCRETE CAST IN FORMWORK</u>					
<u>25 MPa/19mm Concrete in:</u>					
7	Aprons, ramps and steps. A : 10 B : 11 C : 12 D : 5 E : 4 G : 5 H : 4 J : 7 L : 6 M : 1 W : 6	m3	71		
8	Vanity slabs, cupboard slabs, cover slabs, etc A : 0 B : 1 C : 2 D : 1 E : 1 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m3	5		
9	Gallery Seating including beams and inverted beams A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 18 M : 0 W : 0	m3	18		
10	Slabs including beams and inverted beams A : 2 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m3	2		
11	Walls A : 17 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 14 M : 0 W : 0	m3	31		
<u>TEST BLOCKS</u>					
12	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for) A : 19 B : 22 C : 28 D : 9 E : 6 G : 4 H : 4 J : 8 L : 15 M : 1 W : 5	No	121		
Carried to Collection				R	
Section 3: Building Works Bill No. 3: Concrete, Formwork and Reinforcement					
CONTRACT/TENDER NO: RFP 347/2022					

<u>MOVEMENT JOINTS, ETC</u>					
<u>Movement joints, etc</u>					
13	10mm Bitumen impregnated fibre board built in vertically between concrete and brick walls A : 539 B : 215 C : 332 D : 63 E : 95 G : 75 H : 15 J : 65 L : 78 M : 45 W : 95	m	1 617		
14	12mm Bitumen impregnated fibre board built in vertically between concrete surfaces A : 10 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	10		
<u>Saw cut joints</u>					
15	4 x 30mm Saw cuts in top of concrete A : 1671 B : 2064 C : 2400 D : 900 E : 829 G : 861 H : 597 J : 1343 L : 515 M : 43 W : 596	m	11 819		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
16	Surface beds, slabs, etc A : 365 B : 512 C : 600 D : 206 E : 193 G : 215 H : 149 J : 336 L : 99 M : 11 W : 260	m2	2 946		
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY 1)</u>					
<u>Smooth formwork to soffits and sides</u>					
17	Walls A : 162 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	162		
Carried to Collection				R	
Section 3: Building Works Bill No. 3: Concrete, Formwork and Reinforcement					
CONTRACT/TENDER NO: RFP 347/2022					

EMIS NUMBER: 600102163

-71-

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>High tensile steel reinforcement to structural concrete work</u>				
24	12mm Diameter bars A : 7.92 B : 13.80 C : 18.00 D : 4.92 E : 4.20 G : 2.04 H : 2.04 J : 2.76 L : 3.84 M : 0.48 W : 2.04	t	62.04		
25	16mm Diameter bars A : 2.97 B : 5.18 C : 6.75 D : 1.85 E : 1.58 G : 0.77 H : 0.77 J : 1.38 L : 1.44 M : 0.18 W : 0.77	t	23.61		
	<u>Fabric reinforcement</u>				
26	Mesh reinforcement with mesh reference number 311 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net) A : 422 B : 522 C : 613 D : 222 E : 209 G : 215 H : 150 J : 335 L : 129 M : 11 W : 260	m2	3 088		
27	Mesh reinforcement with mesh reference number 395 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net) A : 2 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	2		
28	Mesh reinforcement with mesh reference number 245 laid in walls, slab, etc. with 300mm wide side and end laps (measured net) A : 20 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 228 M : 0 W : 0	m2	248		
Carried to Collection					R
Section 3: Building Works Bill No. 3: Concrete, Formwork and Reinforcement					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		67	
		68	
		69	
		70	
		71	
		72	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works			
Bill No. 3: Concrete, Formwork and Reinforcement			
CONTRACT/TENDER NO: RFP 347/2022			

EMIS NUMBER: 600102163

-74-

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		74	
		75	
Carried Forward to Summary of Section No. 2			
Section 3: Building Works			
Bill No. 4: Precast Concrete			
CONTRACT/TENDER NO: RFP 347/2022			

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

BLOCKWORK

Concrete masonry units

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa

Wall ties for blockwork

Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other

Blockwork

Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"

Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole

Standard complementary blocks

Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary

DECORATIVE BLOCKS

Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour

Carried to Collection

R

Section 3: Building Works
 Bill No. 5: Masonry

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163
SAMPLES

Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site

FOUNDATIONS (PROVISIONAL)
Brickwork of NFX bricks (14 MPA nominal compressive strength) in class I mortar

1	One brick walls	m2	2 153
	A : 230 B : 760 C : 420 D : 146		
	E : 117 G : 67 H : 64 J : 93		
	L : 173 M : 15 W : 68		
2	One brick walls circular on plan	m2	126
	A : 0 B : 0 C : 108 D : 18		
	E : 0 G : 0 H : 0 J : 0		
	L : 0 M : 0 W : 0		
3	270mm cavity walls	m2	34
	A : 34 B : 0 C : 0 D : 0		
	E : 0 G : 0 H : 0 J : 0		
	L : 0 M : 0 W : 0		

SUPERSTRUCTURE
Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar

4	Half brick walls	m2	640
	A : 189 B : 114 C : 0 D : 0		
	E : 34 G : 38 H : 0 J : 89		
	L : 28 M : 8 W : 140		
5	One brickwall in beamfilling	m2	138
	A : 16 B : 23 C : 26 D : 10		
	E : 9 G : 10 H : 8 J : 15		
	L : 7 M : 3 W : 11		

Carried to Collection
R

Section 3: Building Works
Bill No. 5: Masonry

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

6	One brick walls	m2	5 576		
	A : 1128 B : 874 C : 1411 D : 285				
	E : 360 G : 258 H : 201 J : 356				
	L : 386 M : 56 W : 261				
7	Grade-R Dwarf walls	m2	19		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 19				
8	270mm cavity walls complete with cavity wall ties at vertical centres not exceeding 300mm	m2	90		
	A : 90 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
9	Piers	m3	45		
	A : 45 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
<u>BRICKWORK SUNDRIES</u>					
<u>Brickwork reinforcement</u>					
10	75mm wide Reinforcing	m	2 496		
	A : 742 B : 445 C : 0 D : 0				
	E : 134 G : 149 H : 0 J : 349				
	L : 111 M : 30 W : 536				
11	150mm Reinforcement	m	20 585		
	A : 2325 B : 3344 C : 4162 D : 1554				
	E : 1635 G : 1507 H : 1180 J : 2079				
	L : 1032 M : 243 W : 1524				
<u>Turning pieces</u>					
12	To flat brick lintels not exceeding 300mm wide	m	343		
	A : 35 B : 65 C : 72 D : 25				
	E : 21 G : 26 H : 17 J : 47				
	L : 6 M : 2 W : 27				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 5: Masonry					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Galvanised hoop iron cramps, ties, etc</u>				
13	38 x 1,6mm Galvanised hoop iron roof tie with one end built six courses deep into top of brickwork and other end wrapped around and nailed to trusses (Provisional) A : 87 B : 220 C : 240 D : 85 E : 80 G : 80 H : 85 J : 68 L : 156 M : 0 W : 156	No	1 257		
	<u>Bagging of 3:1 sand and cement mixture</u>				
14	On brick surfaces A : 26 B : 0 C : 0 D : 0 E : 17 G : 0 H : 0 J : 0 L : 42 M : 0 W : 0	m2	85		
	<u>Air bricks etc</u>				
15	229 x 152mm Precast concrete vermin proof air bricks with gauze backing and building into brickwork in cement mortar A : 4 B : 8 C : 8 D : 4 E : 4 G : 2 H : 2 J : 2 L : 4 M : 4 W : 4	No	46		
16	220 x 1105mm Opening @ 660mm c/c A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 15 L : 0 M : 0 W : 0	No	15		
	<u>Joint forming material in movement joints</u>				
17	Movement joint formed of 20mm softboard built in vertically between brickwork (Provisional) A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 163 L : 0 M : 0 W : 0	m2	163		
Carried to Collection					R
Section 3: Building Works Bill No. 5: Masonry					
CONTRACT/TENDER NO: RFP 347/2022					

<u>Polystyrene Cavity Wall Insulation</u>				
<u>40mm Medium Density (15 - 16 kg/m3) Expanded Polystyrene Cavity Wall Insulation with thermal insulation R-value of 1 for cavity wall insulation in new residential buildings</u>				
18 EPS boards fixed to the cavity face of the leading tier with wire ties which are additional to the cavity ties specified. These additional ties may be standard cavity ties or may be made from 2mm diameter L-shaped galvanized wire. They must be installed at the same height and mid-way between the specified cavity ties. The EPS boards must be held firmly in place while these additional ties are bent in position. Ties are bent up and down alternately to secure the lower and upper edges of the EPS boards.	m2	90		
A : 90 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0				
<u>FACE BRICKWORK</u>				
<u>30-40 MPa Travertine FBS clay face brick in stretcher bond, size 222 X 106 X 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u>				
19 Extra over ordinary brickwork for facing and pointing in stretcher bond in foundations (Provisional)	m2	1 435		
A : 184 B : 304 C : 336 D : 117 E : 94 G : 54 H : 51 J : 74 L : 138 M : 15 W : 68				
20 Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	3 246		
A : 674 B : 389 C : 707 D : 176 E : 254 G : 207 H : 157 J : 304 L : 101 M : 42 W : 235				
21 Extra over brickwork for face brickwork faced on both sides	m2	2 917		
A : 413 B : 745 C : 1038 D : 165 E : 81 G : 88 H : 73 J : 131 L : 62 M : 20 W : 101				
Carried to Collection			R	
Section 3: Building Works Bill No. 5: Masonry				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

22	<p>Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends</p> <p>A : 35 B : 65 C : 72 D : 25</p> <p>E : 21 G : 26 H : 17 J : 47</p> <p>L : 6 M : 2 W : 27</p>	m	343		
23	<p>Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side</p> <p>A : 35 B : 65 C : 72 D : 25</p> <p>E : 21 G : 26 H : 17 J : 47</p> <p>L : 6 M : 2 W : 27</p>	m	343		
<p><u>DECORATIVE SCREEN, DUCT WALLS AND GRILLES</u></p> <p><u>30-40 MPa Travertine FBS clay face brick in stretcher bond, size 222 X 106 X 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u></p>					
24	<p>One brick screen wall in face brick with 110mm vertical fins at 220mm centres and 110mm wide openings in between pointed on both sides and inner faces</p> <p>A : 16 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 0 J : 0</p> <p>L : 28 M : 0 W : 24</p>	m2	68		
<p><u>NUTEC-CEMENT WINDOW SILLS</u></p> <p><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u></p>					
25	<p>15 x 150mm Wide sills set flat and slightly projecting</p> <p>A : 35 B : 65 C : 72 D : 25</p> <p>E : 21 G : 26 H : 17 J : 47</p> <p>L : 6 M : 2 W : 27</p>	m	343		
<p>Carried to Collection</p>					R
<p>Section 3: Building Works Bill No. 5: Masonry</p>					
<p>CONTRACT/TENDER NO: RFP 347/2022</p>					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		77	
		78	
		79	
		80	
		81	
		82	
		83	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works			
Bill No. 5: Masonry			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 6: WATERPROOFING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer approved 375 micron embossed black polyethylene damp proof course</u>			
1	In walls A : 68 B : 115 C : 136 D : 39 E : 40 G : 22 H : 15 J : 34 L : 33 M : 4 W : 31	m2	537	
	<u>One layer 250 micron green polyethylene waterproof sheeting complying with SABS 952 Type C in widest practicable widths with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements</u>			
2	Under surface beds A : 365 B : 512 C : 600 D : 206 E : 193 G : 215 H : 149 J : 336 L : 99 M : 11 W : 260	m2	2 946	
	Carried to Collection		R	
	Section 3: Building Works Bill No. 6: Waterproofing			
	CONTRACT/TENDER NO: RFP 347/2022			

<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>					
<u>Prepare and apply 'Sika Cemflex' waterproofing system all in accordance with the manufacturer's instructions</u>					
3	On shower base	m2	12		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 12 M : 0 W : 0				
<u>JOINT SEALANTS, ETC</u>					
<u>Two-part grey polysulphide sealing compound applied with a caulking gun, including backing cord, bond breaker, primer, etc</u>					
4	3 x 30mm In saw cut joints in floors	m	11 819		
	A : 1671 B : 2064 C : 2400 D : 900				
	E : 829 G : 861 H : 597 J : 1343				
	L : 515 M : 43 W : 596				
<u>Antifungal silicone sealing compound</u>					
5	10 x 10mm In vertical expansion joints, including raking out expansion joint filler as necessary	m	1 617		
	A : 539 B : 215 C : 332 D : 63				
	E : 95 G : 75 H : 15 J : 65				
	L : 78 M : 45 W : 95				
				R	
Carried to Collection					
Section 3: Building Works Bill No. 6: Waterproofing					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		85	
		86	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works Bill No. 6: Waterproofing			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 7: ROOF COVERINGS, ETC</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>0.58mm IBR galvanised chromadek coated steel sheets double-interlocking concealed-fix roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Zinalume AZ150 coated steel G550 with a Clean Colorbond colour coated finish to one side with a Mountain Mist backing coat fixed to timber or steel purlins using aluminium KL65 clips and class 3 fasteners, in strict accordance with manufacturer's specifications at main building</u></p> <p>Note</p> <p>The Contractor is to submit a certificate signed by the merchant, stating that the galvanised roof covering supplied complies with the required thickness specified</p>			
1	<p>Roof covering with pitch not exceeding 25 degrees</p> <p>A : 456 B : 512 C : 750 D : 258</p> <p>E : 241 G : 269 H : 186 J : 420</p> <p>L : 124 M : 14 W : 325</p>	m2	3 555	
	Carried to Collection		R	
	Section 3: Building Works Bill No. 7: Roof Coverings, etc			
	CONTRACT/TENDER NO: RFP 347/2022			

<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>					
<u>0.58mm IBR galvanised chromadek coated steel sheets with a clean Colorbond colour coated finish to one side and a Mountain Mist backing coat sheet and accessories</u>					
2	Ridge capping 462mm girth A : 46 B : 56 C : 64 D : 22 E : 24 G : 24 H : 16 J : 32 L : 15 M : 3 W : 27	m	329		
3	Hip capping 462mm girth A : 64 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	64		
4	Drip flashing 231mm girth three times bent A : 0 B : 0 C : 0 D : 63 E : 9 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	72		
5	Gable capping flashing 660mm girth fixed to steel sheeting and brickwall A : 0 B : 21 C : 38 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 15 W : 0	m	74		
6	Valley gutter 462mm girth four times bend A : 50 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	50		
7	Narrow and broad flute closers 193mm girth A : 30 B : 90 C : 90 D : 35 E : 35 G : 25 H : 25 J : 65 L : 45 M : 15 W : 65	m	520		
8	Narrow and broad flute closers 193mm girth raking at valleys or hips A : 151 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	151		
Carried to Collection				R	
Section 3: Building Works Bill No. 7: Roof Coverings, etc					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

9	Expanded neoprene moulded narrow and broad rib closer A : 30 B : 90 C : 90 D : 35 E : 35 G : 25 H : 25 J : 65 L : 45 M : 15 W : 65	m	520		
10	Expanded neoprene moulded narrow and broad rib closer raking at valleys or hips A : 151 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	151		
<u>ROOF AND WALL INSULATION</u>					
<u>"Super Sisalation 405" double sided aluminium foil based insulation</u>					
11	Insulation laid taut over timber or steel purlins (at maximum 1200mm centres) and fixed concurrent with roof covering including galvanised steel straining wires A : 456 B : 512 C : 750 D : 258 E : 241 G : 269 H : 186 J : 420 L : 124 M : 14 W : 325	m2	3 555		
Carried to Collection					R
Section 3: Building Works Bill No. 7: Roof Coverings, etc					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		88	
		89	
		90	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works Bill No. 7: Roof Coverings, etc			
CONTRACT/TENDER NO: RFP 347/2022			

Item No	Quantity	Rate	Amount
<p><u>SECTION 3</u></p> <p><u>BILL NO. 8: CARPENTRY AND JOINERY</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Treatment against insect pests</u></p> <p>Rates for all timber shall be deemed to include for treatment against insect pests</p> <p>All softwood for this job shall be treated to combat and prevent the spread of certain insect pests in accordance with Government Gazette Notice No R451 of 28 March 1969 and any amendments thereto. Proof of treatment shall be lodged with the Employer prior to the use of any timber in the works.</p> <p><u>Mitres, intersections, etc</u></p> <p>Descriptions of timber which is given linear, angles, rebates, grooves, chamfers, moulded edges, etc . are to be deemed to include for mitres, intersections, splay cut ends, stops, etc</p> <p>Descriptions of timber, etc shall be deemed to include for straight cutting and notching</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p>			
Carried to Collection		R	
<p>Section 3: Building Works</p> <p>Bill No. 8: Carpentry and Joinery</p>			
CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.**EMIS NUMBER: 600102163**

Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc

Structural timber

Descriptions of structural timber are to be deemed to include for joints in the length, holes, splay cut ends and mitres

All softwood structural timber shall be of stress grade V5 or M5 in accordance with SWABS specification 563 unless otherwise stated

Fascias, etc.

Descriptions of fibre cement fascias and barge boards shall be deemed to include for mitres, end junctions, screws, bolts, wall anchors, holes, etc.

Door frames

Rates for timber door frames shall be deemed to include for approved mild steel stay pegs in floors and hoop-iron clamps to walls, including holes, building in, etc

Particle board:

Particle board shall comply with the following specifications:

a) SABS 1300 Particle board: exterior and flooring type

b) SABS 1301 Particle board: interior type

Joinery:

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish:

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Carried to Collection**R**

Section 3: Building Works
Bill No. 8: Carpentry and Joinery

CONTRACT/TENDER NO: RFP 347/2022

PREFABRICATED METAL CONNECTOR PLATE
TIMBER ROOF TRUSSES

-
- a. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take profiled metal roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanised metal spike connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.
- b. Unless otherwise described all rafter feet are to extend approximately 850mm beyond the length of the tie beam, with end splayed cut.
- c. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/Agent
- d. All timber shall be stress-graded pine or glued laminated timber for construction or engineering purposes in accordance with the specifications of SABS Specification No 563 or as defined in SABS Specification No.1245. Stress-grades shall be marked as specified, viz V4, M4, V6, M6, etc.
- e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.
- f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, ALL TEMPORARY AND PERMANENT BRACING, fixing blocks, etc.
- g. All timber must be Grade 7 as per table 3 of SABS 0163-2001

Carried to Collection

R

Section 3: Building Works
 Bill No. 8: Carpentry and Joinery

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<p>h. All timber screws bolts plate connection or any other type of connector to be in accordance with Annexure 'A' of SABS 0163-2001</p> <p>i. All workshop drawings must be provided to the engineer for approval before fabrication</p> <p>j. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect drawings and/or the site before design or fabrication commences</p> <p>k. All timber to be treated in accordance with SABS 05</p> <p>l. All exposed timber to be treated with carbolineum</p> <p>m. All roof timber to be treated with fire retardant paint</p> <p><u>ROOFS ETC</u></p> <p><u>Prefabricated timber trusses with a pitch not exceeding 25 degree pitch</u></p>				
1	<p><u>Block A</u> - Complete roof truss construction of prefabricated trusses to Security room including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 4040 x 540mm high.</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 0 J : 0</p> <p>L : 0 M : 13 W : 0</p>	m2	13		
2	<p><u>Block B</u> - Complete roof truss construction of prefabricated trusses to Admin block including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 13100 x 2200mm high</p> <p>A : 454 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 0 J : 0</p> <p>L : 0 M : 0 W : 0</p>	m2	454		
3	<p><u>Block C & G</u> - Complete roof truss construction of prefabricated trusses to 3 x Classrooms block including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1950mm high.</p> <p>A : 0 B : 614 C : 0 D : 0</p> <p>E : 0 G : 0 H : 0 J : 0</p> <p>L : 0 M : 0 W : 0</p>	m2	614		
<p>Carried to Collection</p>					
<p>Section 3: Building Works</p> <p>Bill No. 8: Carpentry and Joinery</p>					
<p>CONTRACT/TENDER NO: RFP 347/2022</p>					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

4	Block D - Complete roof truss construction of prefabricated trusses to 2 x Classrooms block+HOD including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1950mm high. A : 0 B : 0 C : 0 D : 278 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	278		
5	Block E & F - Complete roof truss construction of prefabricated trusses to 3 x Classrooms Block + Ablutions including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1922mm high A : 0 B : 0 C : 720 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	720		
6	Block H - Complete roof truss construction of prefabricated trusses to Media Centre block including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1950mm high. A : 0 B : 0 C : 0 D : 0 E : 0 G : 258 H : 0 J : 0 L : 0 M : 0 W : 0	m2	258		
7	Block I - Complete roof truss construction of prefabricated trusses to Science Lab including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1950mm high. A : 0 B : 0 C : 0 D : 0 E : 232 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	232		
8	Block J NSNP - Complete roof truss construction of prefabricated trusses to Nutrition centre Block including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1922mm high A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 390 L : 0 M : 0 W : 0	m2	390		
Carried to Collection				R	
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

9	Block K - Complete roof truss construction of prefabricated trusses to Grade-R classrooms including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1950mm high. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 312	m2	312		
10	Block L - Complete roof truss construction of prefabricated trusses to Multi-purpose Classrooms Block including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1922mm high A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 179 J : 0 L : 0 M : 0 W : 0	m2	179		
11	Block M - Complete roof truss construction of prefabricated trusses to Change rooms Block including all necessary labour, timber for bracing, purlins, wall plates, gangboards, etc. Truss size 11320 x 1922mm high A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 107 M : 0 W : 0	m2	107		
	Sundries				
12	Two coats wood preservative applied hot on wrought exposed roof timbers (provisional) A : 25 B : 46 C : 54 D : 20 E : 22 G : 22 H : 18 J : 25 L : 16 M : 7 W : 23	m2	279		
	EAVES, VERGES, ETC				
	Tempered fibre-cement				
13	12 x 250mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints A : 60 B : 106 C : 133 D : 43 E : 48 G : 48 H : 34 J : 60 L : 30 M : 8 W : 54	m	626		
Carried to Collection					R
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

14	15 x 320mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium half round cover strips at all joints A : 45 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	45		
15	15 x 320mm Barge board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and nailed with steel nails into mortar joints at maximum 750mm centres and jointed with and including standard aluminium half round cover strips at all joints A : 24 B : 48 C : 48 D : 24 E : 24 G : 24 H : 24 J : 24 L : 24 M : 15 W : 24	m	303		
<u>SKIRTINGS</u>					
<u>Wrought Meranti</u>					
16	19 x 76mm Skirting with and including 19mm quarter round nailed to walls A : 325 B : 205 C : 268 D : 100 E : 101 G : 101 H : 60 J : 206 L : 65 M : 18 W : 162	m	1 610		
<u>DOORS</u>					
<u>NOTE:</u>					
All framed and ledged batten doors and combination doors, where battens are utilised, shall only be of construction acceptable to the Department, i.e. mortice and tennon where the tennon is exposed on the outside edges of styles and where the tennon is wedged to form a dove tailed shape.					
<u>Solid Core Timber Doors hung to steel frames</u>					
17	Solid core door size 44mm x 813 x 2032mm high (D1) A : 0 B : 6 C : 10 D : 3 E : 3 G : 3 H : 1 J : 3 L : 2 M : 1 W : 4	No	36		
Carried to Collection				R	
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

18	Solid core door size 44mm x 1511 x 2032mm high (D6) A : 2 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 2 L : 0 M : 0 W : 0	No	4		
	<u>Semi-solid core timber door hung to steel frames</u>				
19	44mm Door, size 813 x 2032mm high (D2) A : 12 B : 0 C : 0 D : 1 E : 2 G : 2 H : 2 J : 5 L : 0 M : 1 W : 10	No	35		
20	44mm Door, size 762 x 1800mm high (D4) A : 3 B : 0 C : 8 D : 0 E : 4 G : 2 H : 0 J : 2 L : 1 M : 0 W : 0	No	20		
21	44mm Door, size 762 x 1524mm high (D8) A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 4	No	4		
22	44mm Door, size 1000 x 2032mm high (D3) A : 1 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 1 L : 2 M : 0 W : 2	No	7		
	<u>WINDOWS</u>				
	<u>Wrought custom made windows</u>				
23	Window type W9, size 1200 x 1200mm high as Architect schedule A : 0 B : 0 C : 0 D : 1 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
Carried to Collection				R	
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

<u>BEADS, ETC</u>				
<u>Wrought Saligna</u>				
24 12 x 25mm Glazing beads countersunk tapscrewed to pressed steel framing (elsewhere)	m	12		
A : 12 B : 0 C : 0 D : 0				
E : 0 G : 0 H : 0 J : 0				
L : 0 M : 0 W : 0				
<u>THE FOLLOWING IN JOINERY FITTINGS</u>				
NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill				
NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>TRADE NAMES</u>				
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent				
<u>FITTINGS GENERAL</u>				
Where fittings have been measured as complete units i.e. the components of the units have not been separately measured, the descriptions of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc				
Unless specifically stated, or where no finish is given, finishes to all joinery fittings shall be three coats polyurethane clear semi-gloss varnish to all exposed surfaces				
Carried to Collection			R	
Section 3: Building Works Bill No. 8: Carpentry and Joinery				
CONTRACT/TENDER NO: RFP 347/2022				

DRAWINGS

The references given in the descriptions are to the respective fittings detailed on the drawings accompanying these bills of quantities for tender purposes

PARTICLE BOARD

Particle board shall comply with the following specifications:

- a) SABS 1300 Particle board: exterior and flooring type
- b) SABS 1301 Particle board: interior type

DECORATIVE LAMINATE FINISH

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

CONSTRUCTION

Construction of fittings shall be generally of wood, screwed and glued with pelleted heads where visible. All materials used must be of the best quality fabricate approved by the Representative / Agent and all the units to be finished neat and true prior to installation and finishing

DOORS TO FITTINGS

Sizes of doors and drawers are approximate. Correct sizes must be taken from the fittings concerned

Carried to Collection

R

Section 3: Building Works
 Bill No. 8: Carpentry and Joinery

CONTRACT/TENDER NO: RFP 347/2022

THE FOLLOWING IN GUARD HOUSE - BLOCK A**Granite Counter Tops**

25	Guard House - L-Shape sink floor cupboard size (2000mm long x 600mm wide x 900mm high) and (2160mm long x 600mm wide x 900mm high) comprising base structure, sides, drawers and doors, adjustable shelving and skirting made from saligna. Cupboard to be complete with 12 x 188mm stainless steel bar handles complete with 30mm thick granite stone worktop including all brackets, ironmongery, etc	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 1 W : 0				

THE FOLLOWING IN ADMIN - BLOCK B**Purpose made 16mm thick moisture resistance melamine carcasses fixed together to form pigeon holes with lockable doors, pigeon hole size 391 x 400 x 413mm**

26	3535mm long x 400mm wide x 1800mm High pigeon holes complete with and including, sides, divisions, bottom, skirting, shelves, brackets, backing, doors, locks, hinges, etc, colour to Architect specification. as per detail 923-S2-102-BA-wd.012 Rev A	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				

Purpose made Laminated Saligna Worktops supported by 50 x 50 x 3mm angle iron brackets welded together with 170 x 170 x 3mm gusset plates to shape as indicated and fixed securely to the wall with 8 x 70 masonry anchors @ 943c/c

27	Accounting Office - 4090 x 600 x 32mm Laminated saligna worktops with 6mm bevelled edges screwed to support brackets from underneath. Fix 19mm quarter round saligna beading to worktops against the wall. Finish with 2 coats eggshell polyurethane varnish as per detail 923-S3-102-BA-wd. 010	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				

Carried to Collection**R**

Section 3: Building Works
 Bill No. 8: Carpentry and Joinery

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

28	Accounting Office - 2100 x 760 x 32mm Laminated saligna worktops with 6mm bevelled edges screwed to support brackets from underneath. Fix 19mm quarter round saligna beading to worktops against the wall. Finish with 2 coats eggshell polyurethane varnish as per detail 923-S3-102-BA-wd. 010	No	1		
	A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0				
29	Reception/Admin Office - 4575 x 600 x 32mm Laminated saligna worktops with 6mm bevelled edges screwed to support brackets from underneath. Fix 19mm quarter round saligna beading to worktops against the wall. Finish with 2 coats eggshell polyurethane varnish as per detail 923-S3-102-BA-wd. 012	No	1		
	A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0				
30	Reception/Admin Office - 2100 x 760 x 32mm Laminated saligna worktops with 6mm bevelled edges screwed to support brackets from underneath. Fix 19mm quarter round saligna beading to worktops against the wall. Finish with 2 coats eggshell polyurethane varnish as per detail 923-S3-102-BA-wd. 012	No	1		
	A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0				
	<u>Purpose made Floor Cupboard</u>				
31	Kitchenette - 16mm White Melamine L - shape floor cupboard size (4800mm long x 600mm wide x 900mm high) and (1200mm long x 600mm wide x 900mm High) with 12 x 188mm stainless steel bar handles complete with 30mm thick granite stone worktop as per detail 923-S2-102-BA-wd.011	No	1		
	A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

32	Principal's Office - 3000 long x 500 wide x 875mm High Melamine floor cupboard comprising base structure, sides, adjustable shelving and skirting made from melamine chipboard complete with 32mm thick laminated saligna timber worktop including all brackets, ironmongery, doors, varnish etc A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
33	Vice - Principal's Office - 3000 long x 500 wide x 875mm high Melamine floor cupboard comprising base structure, sides, adjustable shelving and skirting made from melamine chipboard complete with 32mm thick laminated saligna timber worktop including all brackets, ironmongery, doors, varnish etc A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
	<u>Laminated Saligna Timber Worktop</u>				
34	Print Room - 4090 x 600 x 32mm Worktop complete with and including rounded edges, screwed to steel supports, brackets, gusset plates, anchors, finished with 2 coats polyurethane eggshell varnish etc A : 6 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	6		
Carried to Collection					R
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<p><u>Purpose made Trophy Cabinet, made of 22mm melamine carcasses with 22mm S.A Pine dividing horizontal shelves complete with (top-section) 500 x 1200mm high toughened safety glass doors with 3no. chrome plated hinges per door and (bottom section) to be 500 x 900mm high 16mm thick melamine doors. All doors complete with chrome plated handles. Refer to Architect's detail as per 923-S2-102-BA-wd.013 Rev A</u></p>			
35	<p>Reception - 3000 long x 450 wide x 2100mm High trophy display floor cupboard comprising base structure, sides, shelving, glazing and skirting complete including all brackets, ironmongery, doors, etc as detail 923-S2-102-BA-wd.013 Rev A</p> <p>A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0</p> <p><u>Timber Benches</u></p>	No	1	
36	<p>3000 x 550 x 882mm high bench with backrest. 25mm thick laminated Saligna seat screwed to steel frame from the top complete with 19mm thick Saligna backrest screwed filling pieces top and bottom. Seat to be fixed on 50 x 50 x 5mm mild steel angle iron welded together to form support frame. Fix steel frame to wall with 3no. 8mm diameter expansion bolts and steel fixed @ max. 600mm c/c. Seat and Backrest to be neatly jointed and finished with 2 coats polyurethane eggshell varnish as per detail 923-S2-102-BA-wd.020 Rev A</p> <p>A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0</p> <p><u>305 x 32mm thick Laminated Saligna Shelving @ 300mm c/c fixed to steel shelf brackets on double slot band wall upright fixed to the concrete or brick wall</u></p>	No	1	
37	<p>Strongroom - U-Shape open shelf storage at 2635mm high (7 shelves)</p> <p>A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0</p>	m	1	
	<p>Carried to Collection</p>		R	
<p>Section 3: Building Works Bill No. 8: Carpentry and Joinery</p>				
<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

38	Storage - U-Shape open shelf storage at 2635mm high (7 shelves)	m	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
	<u>Purpose made Reception Counter</u>				
39	4575mm long x 900mm High Reception counter complete with and including worktop, ironmongery, doors, drawers, etc security grille and adjustable aluminium louvres (elsewhere);	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
	<u>Magazine Stand</u>				
40	924mm long x 458 x 1396mm high Magazine stand complete with and including framed frame, shelves, bottom, sides, divisions, bearers, sloping doors, ironmongery, etc	No	1		
	<u>Safe</u>				
41	850 x 25 x 1750mm high complete and including 22mm thick hardwood veneer front, mirror screws, aluminium frame, fixings, varnish, etc.	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
	<u>Keyboard</u>				
42	Admin-Cleaners Room - 850 x 1750mm high Keyboard with 96no. hooks on 22mm blockboard with hardwood veneer front taped around with 25 x 25 x 3mm natural colour aluminium strip, fixed to the wall and finished with 2 coats of polyurethane varnish as per detail 923-S2-102-BA-wd.013 Rev A	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

<u>THE FOLLOWING IN CLASSROOMS</u>				
<u>Purpose made 22mm thick laminated timber open pigeon hole size 450 x 500 x 350mm</u>				
43	3326mm long x 450mm wide x 1166mm High pigeon holes complete with and including worktop, sides, divisions, bottom, skirting, shelves, brackets, backing, etc as per Architect's detail	No	14	
	A : 0 B : 6 C : 6 D : 2 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0			
44	7000mm long x 450mm wide x 1166mm High pigeon holes complete with and including worktop, sides, divisions, bottom, skirting, shelves, brackets, backing, etc as per Architect's detail	No	14	
	A : 0 B : 6 C : 6 D : 2 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0			
<u>THE FOLLOWING IN SPECIAL CLASSROOMS - BLOCK H, I & L</u>				
<u>BLOCK H - MEDIA CENTRE</u>				
<u>Laminated Saligna Timber Work Station</u>				
45	Computer Room - 8082 x 800 x 750mm high Work station comprising of 30 x 30 x 2,5mm thick galvanised steel tubing section legs and top member to be welded together to form a frame finished with "Hammerite complete with 32mm thick laminated saligna worktop with double rounded nosing fronts and 50 x 32mm thick laminated timber skirting and double compartment skirting to rear of worktop and to be fixed from the below finished with 2 coats of polyurethane eggshell varnished complete with and including back uprights, filler piece, frame, dividers, brackets, varnish etc as per 923-S2-105-BEP1-wd020	No	1	
	A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0			
Carried to Collection				R
Section 3: Building Works Bill No. 8: Carpentry and Joinery				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

46	<p>Computer Room - 6400 x 800 x 750mm high Work station comprising of 30 x 30 x 2,5mm thick galvanised steel tubing section legs and top member to be welded together to form a frame finished with "Hammerite" complete with 32mm thick laminated saligna worktop with double rounded nosing fronts and 50 x 32mm thick laminated timber skirting and double compartment skirting to rear of worktop and to be fixed from the below finished with 2 coats of polyurethane eggshell varnished complete with and including back uprights, cable hole, filler piece, frame, dividers, brackets, varnish etc as per 923-S2-105-BEP1-wd020</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0</p> <p><u>305 x 32mm thick Laminated Saligna Shelving @ 300mm c/c fixed to steel shelf brackets on double slot band wall upright fixed to the concrete or brick wall</u></p>	No	1		
47	<p>Storerooms - U-Shape open shelf storage at 2166mm high (7 shelves)</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 G : 20 H : 0 J : 0 L : 0 M : 0 W : 0</p>	m	20		
48	<p>Storerooms - U-Shape open shelf storage at 2166mm high (7 shelves)</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 G : 7 H : 0 J : 0 L : 0 M : 0 W : 0</p>	m	7		
49	<p>Newspaper & Magazines - Open shelf storage at 2166mm high (7 shelves)</p> <p>A : 0 B : 0 C : 0 D : 0 E : 0 G : 12 H : 0 J : 0 L : 0 M : 0 W : 0</p>	m	12		
Carried to Collection					R
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

<u>BLOCK I - LABORATORY</u>					
<u>Purpose made Display Shelving</u>					
50	6500mm long x 300mm wide x 750mm high Display shelves @ 1630mm high complete with and including sides, top, cleats, divisions, sliding guides or tracks, 6,5mm plate glass sliding doors with polished edges, chromium plated recessed handles, etc A : 0 B : 0 C : 0 D : 0 E : 1 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
<u>Chemical Store - 305 x 32mm thick Laminated Saligna Shelving @ 300mm c/c fixed to steel shelf brackets on double slot band wall upright fixed to the concrete or brick wall</u>					
51	U-Shape open shelf storage at 2166mm high (7 shelves) as per detail 923-S2-105-BEP1-wd013 A : 0 B : 0 C : 0 D : 0 E : 1 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
<u>Equipment Store - 305 x 32mm thick Laminated Saligna Shelving @ 300mm c/c fixed to steel shelf brackets on double slot band wall upright fixed to the concrete or brick wall</u>					
52	U-Shape open shelf storage at 2166mm high (7 shelves) as per detail 923-S2-105-BEP1-wd013 A : 0 B : 0 C : 0 D : 0 E : 1 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
Carried to Collection				R	
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>38mm thick Laminated Saligna Worktop with 700 x 19mm saligna front and sides panel with 100 x 40mm fixed to steel 2-tier power trunking on the front panel . All fixed to framework made of 38 x 38 x 3mm galvanised square mild steel tubing. Approved 16mm thick melamine front panel extends over mullion to act as stopper complete with 480 x 345 deep fireclay anti-acid laboratory sink with drainer and 38mm anti-acid bottle trap and complete with chrome plated 'swan neck' swivel outlet with serrated nozzle (305mm long).</u>				
53	2490mm long x 900mm wide x 910mm high Teacher's worktop with 4no. drawer unit and 2no. 16mm thick melamine doors with handles as detail 923-S2-105-BEP1-wd.011 Rev A A : 0 B : 0 C : 0 D : 0 E : 1 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
54	2850mm long x 900mm wide x 1100mm high Learner's worktop as detail 923-S2-105-BEP1-wd.011 Rev A A : 0 B : 0 C : 0 D : 0 E : 8 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	8		
55	6353mm long x 450mm wide x 900mm High display wall cupboard fixed @ 1630mm high from the finished floor level. Cupboard complete with 18mm thick chipboard melamine shelves. Doors to be complete with 4mm toughened safety glazing and approved solid cupboard handles to be flange plates etc as detail 923-S2-105-BEP1-wd.011 Rev A A : 0 B : 0 C : 0 D : 0 E : 1 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
56	7270mm long x 600mm wide x 1100mm High 38mm thick Saligna worktop benches complete with and including top with bullnose edge, framework and cross bracing made of 38 x 38 x 3mm galvanised mild steel tubing, 18mm thick melamine removal panel to form ducting, ten base plates with four holes, necessary bolts, etc A : 0 B : 0 C : 0 D : 0 E : 3 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	3		
Carried to Collection					R
Section 3: Building Works Bill No. 8: Carpentry and Joinery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

57	<p><u>Raised Podium</u></p> <p>4500 x 1900 x 190mm high Raised podium complete with and including 32mm thick hardwood veneer floor panels fixed to pine bearers and including stair nosing, angle iron, varnish, etc</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 1 G : 0 H : 0 J : 0</p> <p>L : 0 M : 0 W : 0</p>	No	1	R
58	<p><u>BLOCK L - MULTIPURPOSE ROOMS</u></p> <p><u>Purpose made cupboards etc</u></p> <p>7000mm long x 600 wide x 900mm high, 18mm thick Melamine chipboard floor cupboard complete with 4no x 2 overall drawer cabinets and storage section with doors comprising base structure, sides, back made from melamine chipboard, complete with 32mm Laminated Saligna Timber Top including all runners, saligna quartrant at wall interface, ironmongery, skirting, drawer and doors, etc as per detail 923-S2-105-BEP1-wd010/09</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 1 J : 0</p> <p>L : 0 M : 0 W : 0</p> <p><u>Purpose made 305 x 32mm thick Laminated Saligna Shelving @ 300mm c/c fixed to steel shelve brackets on double slot band wall upright fixed to the concrete or brick wall</u></p>	No	1	
59	<p>Multipurpose Storerooms - U-Shape open shelf storage at 2166mm high (7 shelves) as per detail 923-S2-105-BEP1-wd015</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 2 J : 0</p> <p>L : 0 M : 0 W : 0</p>	No	2	
<p>Carried to Collection</p>				
<p>Section 3: Building Works Bill No. 8: Carpentry and Joinery</p>				
<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

60	<p><u>Raised Podium</u></p> <p>4500 x 1900 x 190mm high Raised podium complete with and including 32mm thick hardwood veneer floor panels fixed to pine bearers and including stair nosing, angle iron, varnish, etc</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 1 J : 0</p> <p>L : 0 M : 0 W : 0</p>	No	1	R
61	<p><u>THE FOLLOWING IN CHANGE-ROOM - BLOCK M</u></p> <p><u>Timber Benches</u></p> <p>4190 x 425 x 450mm high bench complete and including 75 x 38mm thick Saligna rails @ 25mm c/c fixed to 75 x 50mm galvanised angle iron brackets bolted to wall with rawl bolts and anchored by 32 x 20mm mild steel angle iron expansion bolts, steel frame, paint etc, as per detail 923-S2-109-BI-wd.010 Rev A</p> <p>A : 0 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 0 J : 0</p> <p>L : 2 M : 0 W : 0</p>	No	2	
<p>Carried to Collection</p>				
<p>Section 3: Building Works Bill No. 8: Carpentry and Joinery</p>				
<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

<u>THE FOLLOWING IN DINNING HALL - BLOCK J</u>				
<u>Pots rack</u>				
62	Washing & Serving Areas - 1500 x 400mm racking wall mounted tubular pots rack installed just below granite worktop as per detail 923-S2-113-BL-wd.020 Rev A	No	2	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 G : 0 H : 0 J : 0			
	L : 2 M : 0 W : 0			
<u>Granite Counter Tops</u>				
63	Washing & Serving Areas - 30mm Thick x 345mm Wide Counter Top fixed to GMS angle iron brackets at the bottom as per detail 923-S2-113-BL-wd.020	m2	6	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 G : 0 H : 0 J : 6			
	L : 0 M : 0 W : 0			
<u>Purpose made cupboards etc</u>				
64	Storage Room - 5335mm long x 450mm wide x 900mm High display wall cupboard fixed @ 1630mm high from the finished floor level. Cupboard complete with 18mm thick chipboard melamine shelves. Doors to be complete with 4mm toughened safety glazing and approved solid cupboard handles to be flange plates etc as detail 923-S2-105-BEP1-wd.011 Rev A	No	3	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 G : 0 H : 0 J : 3			
	L : 0 M : 0 W : 0			
65	Storeroom - U-Shape open shelf storage at 2166mm high (7 shelves) as per detail 923-S2-106-BEP2-wd016	m	18	
	A : 0 B : 0 C : 0 D : 0			
	E : 0 G : 0 H : 0 J : 18			
	L : 0 M : 0 W : 0			
Carried to Collection				R
Section 3: Building Works Bill No. 8: Carpentry and Joinery				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		92	
		93	
		94	
		95	
		96	
		97	
		98	
		99	
		100	
		101	
		102	
		103	
		104	
	105		
	106		
	107		
	108		
	109		
	110		
	111		
	112		
	113		
Carried Forward to Summary of Section No. 2			
Section 3: Building Works			
Bill No. 8: Carpentry and Joinery			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 9: CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>TIMBER</u></p> <p>All softwood to be South African Pine</p> <p><u>INSULATION, ETC</u></p> <p><u>Fibreglass insulation</u></p>			
1	<p>50mm Insulation closely fitted and laid on top of brandering between roof timbers, etc, all as per manufacturers instructions</p> <p>A : 365 B : 512 C : 600 D : 206</p> <p>E : 193 G : 215 H : 149 J : 336</p> <p>L : 99 M : 11 W : 260</p>	m2	2 946	
	<p>Carried to Collection</p>		R	
	<p>Section 3: Building Works</p> <p>Bill No. 9: Ceilings, Partitions and Access Flooring</p>			
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>			

<u>NAILED UP CEILINGS</u>					
<u>6.4mm Gypsum Plasterboard ceilings</u>					
2	Horizontal ceiling formed of 6,4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips and 38 x 50mm sawn softwood brandering at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	2 172		
	A : 319 B : 363 C : 404 D : 144				
	E : 145 G : 145 H : 104 J : 259				
	L : 77 M : 9 W : 203				
3	Ditto, but re-inforced with 6mm expanded metal fixed between ceiling boards and battens	m2	5		
	A : 5 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
4	Extra over gypsum plasterboard ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	6		
	A : 0 B : 0 C : 0 D : 0				
	E : 1 G : 1 H : 0 J : 0				
	L : 2 M : 0 W : 2				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 9: Ceilings, Partitions and Access Flooring					
CONTRACT/TENDER NO: RFP 347/2022					

	<p><u>6mm "Everite Nutec" fibre-cement ceiling boards (2400 x 1400mm) or similar approved fixed with 25 x 3.5mm dry wood screws at 300mm centres with 6mm "Everite Nutec" fibre-cement ceiling boards (2400 x 1400mm) or similar approved fixed with 25 x 3.5mm dry wood screws at 300mm centres with 63mm wide strips of mesh scrim nailed over joints and the whole finished with a minimum 6mm thick coat of "Rhinolite" or similar approved gypsum skim plaster trowelled to a smooth polished surface, all in strict accordance with the manufacturer's specifications wide strips of mesh scrim nailed over joints and the whole finished with a minimum 6mm thick coat of "Rhinolite" or similar approved gypsum skim plaster trowelled to a smooth polished surface, all in strict accordance with the manufacturer's specifications</u></p>				
5	<p>Ceilings including 38 x 50mm sawn softwood bandering at 450mm centres fixed to steel purlins at entrance canopy</p> <p>A : 70 B : 107 C : 136 D : 45 E : 50 G : 50 H : 24 J : 93 L : 19 M : 2 W : 57</p> <p><u>Gypsum plasterboard cornices</u></p>	m2	652		
6	<p>19 x 76mm Gypsum cornice, laid flat to bandering</p> <p>A : 393 B : 205 C : 404 D : 145 E : 101 G : 148 H : 86 J : 269 L : 86 M : 0 W : 220</p>	m	2 059		
Carried to Collection					R
Section 3: Building Works Bill No. 9: Ceilings, Partitions and Access Flooring					
CONTRACT/TENDER NO: RFP 347/2022					

<u>SUSPENDED CEILINGS</u>					
<u>1200mm x 600mm x 12mm Vinyl laminated gypsum board suspended ceiling tile into the ceiling pre-painted grid. Main Tees at 1200mm centres. Suspend main tees @ 1200mm c/c using Pre-stretched Galvanised Hanger wire 2.5mm thick or hanger strap 19mm at 1200mm centres. Cross Tees T(1200 long) at 600mm centres. 2 x Hold down clips per Cross Tee in areas susceptible to draught. Installation should be strictly in accordance with Manufacturer's Instructions.</u>					
7	Ceilings suspended not exceeding 1m below timber/steel purlins	m2	12		
	A : 12 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0				
<u>Aluminium shadowline cornice</u>					
8	25mm Epoxy coated standard "DONN" white powder coated aluminium shadowline cornices	m	24		
	A : 24 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0				
<u>EXPANDED METAL CEILINGS</u>					
<u>Mild Steel Mesh</u>					
9	Supply and install security grid above ceiling (VEM 320J) fixed to the bottom of trusses and ceiling boards.	m2	464		
	A : 319 B : 0 C : 0 D : 0 E : 0 G : 145 H : 0 J : 0 L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works Bill No. 9: Ceilings, Partitions and Access Flooring					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

[illegible]

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 10: FLOOR COVERINGS, WALL LININGS, ETC</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>FIXING</u></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><u>FLOOR COVERINGS</u></p> <p><u>300 x 300 x 2,5mm Semi-flexible vinyl floor tiles laid in two colour pattern on cement screed (elsewhere)</u></p>			
1	<p>On floors and in door openings</p> <p>A : 319 B : 363 C : 404 D : 144</p> <p>E : 145 G : 145 H : 104 J : 259</p> <p>L : 77 M : 11 W : 203</p>	m2	2 174	
	<p>Carried to Collection</p> <p>Section 3: Building Works</p> <p>Bill No. 10: Floor Coverings, Plastic linings, etc</p>		R	
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>			

2	<p><u>POLISH, SEALERS, ETC</u></p> <p><u>Sweep, clean with detergent complying with SABS 825, rinse and apply three coats of water emulsion polish complying with SABS 1042, including buffing after application of each coat of polish</u></p> <p>On vinyl flooring</p> <p>A : 319 B : 363 C : 404 D : 144 E : 145 G : 145 H : 104 J : 259 L : 77 M : 11 W : 203</p>	m2	2 174	R
<p style="text-align: center;">Carried to Collection</p> <p>Section 3: Building Works Bill No. 10: Floor Coverings, Plastic linings, etc</p> <p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>				

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		120	
		121	
Carried Forward to Summary of Section No. 2			
Section 3: Building Works			
Bill No. 10: Floor Coverings, Plastic linings, etc			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 11: IRONMONGERY</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>FINISHES TO IRONMONGERY</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list :</p> <p>CH Chromium plated SC Satin chromium plated PT Epoxy coated PB Polished brass PL Polished and lacquered BS Satin bronze and lacquered AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black GE Grey enamelled SE Silver enamelled SD Sanded</p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section 3: Building Works Bill No. 11: Ironmongery</p>			
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			

<u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC.</u>					
<u>Bolts and latches</u>					
1	Roller ball catch for toilet doors and keep fixed to steel	No	31		
	A : 4 B : 0 C : 8 D : 0				
	E : 4 G : 2 H : 0 J : 3				
	L : 3 M : 1 W : 6				
2	150mm Satin chrome flush bolt and keep	No	4		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
3	150mm Satin chrome flush bolt with a short length of brass tubing let into concrete floor as keep	No	4		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
<u>Locks</u>					
4	63mm Brass five pin tumbler padlock keyed alike with one pair of keys per every five padlocks (Provisional)	No	17		
	A : 3 B : 0 C : 0 D : 0				
	E : 1 G : 1 H : 1 J : 4				
	L : 1 M : 0 W : 6				
5	51mm Mortice indicating bolt with emergency release	No	30		
	A : 4 B : 0 C : 8 D : 0				
	E : 4 G : 2 H : 0 J : 2				
	L : 3 M : 1 W : 6				
6	75mm Three lever upright mortice lock set with satin chrome furniture	No	76		
	A : 14 B : 6 C : 10 D : 4				
	E : 6 G : 6 H : 3 J : 10				
	L : 2 M : 1 W : 14				
Carried to Collection				R	
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Handles</u>				
7	100mm Chromium plated bow handle bolted through door with the bolt ends hammered to prevent the nuts being removed	No	76		
	A : 14 B : 6 C : 10 D : 4				
	E : 6 G : 6 H : 3 J : 10				
	L : 2 M : 1 W : 14				
	<u>Door closers</u>				
8	Overhead surface mounted type door closer with aluminium casing	No	4		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
	<u>SUNDRIES</u>				
9	28mm Brass square cup hook screwed into keyboard	No	24		
	A : 24 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
10	28mm Diameter x 1mm thick brass key label with 12mm high stamped numeral or letters and holed for and screwed to keyboard	No	60		
	A : 60 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
11	38mm Rubber door stop plugged and screwed to wall or floor	No	106		
	A : 18 B : 6 C : 18 D : 4				
	E : 9 G : 8 H : 3 J : 13				
	L : 5 M : 2 W : 20				
12	Nickel plated steel leaf spring door holder with rubber door stop plugged and screwed to floor	No	4		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
	Carried to Collection			R	
	Section 3: Building Works				
	Bill No. 11: Ironmongery				
	CONTRACT/TENDER NO: RFP 347/2022				

<u>NUMERAL AND NAME PLATES</u>					
<u>Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed self tapping screws</u>					
13	BLOCK A : S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "SECURITY ROOM"	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 1 W : 0				
14	BLOCK B: S2 - 450 x 60 x 3mm Thick plate with letters " ADMINISTRATION "	No	2		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
15	BLOCK B: S2 - 450 x 60 x 3mm Thick plate with letters " RECEPTIONIST "	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
16	BLOCK B: S2 - 450 x 60 x 3mm Thick plate with letters " PRINCIPAL OFFICE"	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
17	BLOCK B: S2 - 450 x 60 x 3mm Thick plate with letters " DEPUTY OFFICE"	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
18	BLOCK B: S2 - 450 x 60 x 3mm Thick plate with letters " RECORDS ROOM"	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

19	BLOCK B: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "SICK BAY" A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
20	BLOCK B: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "PRINT ROOM" A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
21	BLOCK B: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "OFFICES " A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
22	BLOCK B: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "HOD OFFICE" A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
23	BLOCK B: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "STORE " A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
24	BLOCK B: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "STAFF ROOM" A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
25	BLOCK B: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "KITCHENETTE " A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
Carried to Collection					R
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

26	BLOCK C & G: S2 - 450 x 60 x 3mm Thick plate with letters " CLASSROOM 1 or 2 or 3 or 12 or 13 or 14"	No	6		
	A : 0 B : 6 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
27	BLOCK D: S2 - 450 x 60 x 3mm Thick plate with letters " CLASSROOM 4 or 5"	No	2		
	A : 0 B : 0 C : 0 D : 2				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
28	BLOCK D: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "TEACHERS MEETING ROOM "	No	1		
	A : 0 B : 0 C : 0 D : 1				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
29	BLOCK D: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "HOD OFFICE "	No	1		
	A : 0 B : 0 C : 0 D : 1				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
30	BLOCK E: S2 - 450 x 60 x 3mm Thick plate with letters " CLASSROOM 6, 7 or 8"	No	6		
	A : 0 B : 0 C : 6 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
31	BLOCK E: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "FEMALE" text.	No	2		
	A : 0 B : 0 C : 2 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
32	BLOCK E: S4 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Female pictogram.	No	2		
	A : 0 B : 0 C : 2 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

33	BLOCK H: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "MEDIA CENTRE " A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
34	BLOCK H: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "WORK ROOM 1 " A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
35	BLOCK H: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "STORE ROOM " A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
36	BLOCK H: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "FEMALE" text. A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
37	BLOCK H: S4 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with female pictogram. A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
38	BLOCK H: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "DISABLED WC " text. A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
39	BLOCK H: S3 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Paraplegic pictogram. A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
Carried to Collection				R	
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

40	BLOCK I: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "SCIENCE LAB "	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 1 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
41	BLOCK I: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "STORE ROOM "	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 1 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
42	BLOCK I: S2 - 450 x 60 x 3mm Thick plate with letters plate with letters "EQUIPMENT STORE "	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 1 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
43	BLOCK H: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "MALE" text.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 1 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
44	BLOCK H: S5 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Male pictogram.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 1 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
45	BLOCK J: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "DINING HALL"	No	2		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
46	BLOCK J: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "STAFF ONLY"	No	2		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

47	BLOCK J: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "DRY STORE"	No	2		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
48	BLOCK J: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "DRY BULK STORE" text.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 1				
	L : 0 M : 0 W : 0				
49	BLOCK J: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "VEGETABLE STORE" text.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 1				
	L : 0 M : 0 W : 0				
50	BLOCK J: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "DISABLED WC " text.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 1				
	L : 0 M : 0 W : 0				
51	BLOCK J: S3 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Paraplegic pictogram.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 1				
	L : 0 M : 0 W : 0				
52	BLOCK J: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "FEMALE " text.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 1				
	L : 0 M : 0 W : 0				
53	BLOCK J: S4 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with female pictogram.	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 1				
	L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

54	BLOCK J: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "MALE" text. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 1 L : 0 M : 0 W : 0	No	1		
55	BLOCK J: S5 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Male pictogram. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 1 L : 0 M : 0 W : 0	No	1		
56	BLOCK K: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "GRADE R " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 4	No	4		
57	BLOCK K: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "SICK BAY " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2		
58	BLOCK K: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "KITCHENETTE " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2		
59	BLOCK K: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "SICK BAY " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2		
60	BLOCK K: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "STOREROOM " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2		
Carried to Collection					R
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

61	BLOCK K: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "TOILETS " text. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 4	No	4		
62	BLOCK K: S6 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Male and Female pictogram. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 4	No	4		
63	BLOCK K: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "DISABLED WC " text. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2		
64	BLOCK K: S3 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Paraplegic pictogram. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2		
65	BLOCK L: S2 - 450 x 60 x 3mm Thick plate with letters " MULTIPURPOSE " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 1 J : 0 L : 0 M : 0 W : 0	No	1		
66	BLOCK L: S2 - 450 x 60 x 3mm Thick plate with letters " EQUIPMENT STORE " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 1 J : 0 L : 0 M : 0 W : 0	No	1		
67	BLOCK L: S1 - 300 x 60 x 3mm Thick plate with letters plate with letters "STORE " A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 1 J : 0 L : 0 M : 0 W : 0	No	1		
Carried to Collection					R
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

68	BLOCK M: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "GIRLS CHANGE ROOMS " text. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 1 M : 0 W : 0	No	1		
69	BLOCK M: S4 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with female pictogram. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 1 M : 0 W : 0	No	1		
70	BLOCK M: S2 - 450 x 60 x 3mm aluminium, anodised silver engraved sign, engraved with "BOYS CHANGE ROOMS " text. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 1 M : 0 W : 0	No	1		
71	BLOCK M: S5 - 200 x 200 x 3mm aluminium, anodised silver engraved sign, with Male pictogram. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 1 M : 0 W : 0	No	1		
<u>Push plates and kick plates</u>					
72	Brushed stainless steel Kick plates 0,9 x 200mm x width of door A : 1 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 1 L : 1 M : 0 W : 2	No	6		
<u>STEEL LOCKERS</u>					
73	Classrooms, 350 X 450mm x 1800mm High Heavy duty steel lockers with 2no, louvred doors for ventilation complete with a padlock locking system, Lockers to be Hammertone Grey Colour A : 0 B : 6 C : 6 D : 3 E : 1 G : 0 H : 0 J : 2 L : 40 M : 0 W : 0	No	58		
Carried to Collection				R	
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>					
<u>Green chalkboard to comply with safety requirements for wheeled structure complete with one chalk rail as one unit strictly in accordance to manufacturers instructions</u>					
74	2400 x 1140mm High green chalkboard A : 0 B : 6 C : 6 D : 2 E : 1 G : 1 H : 1 J : 0 L : 0 M : 0 W : 4	No	21		
<u>"Parrot" COMBI Felt Pin board Non-Magnetic including concealed mounting and slide-in aluminium pen tray (450 x 35mm), and Anodised Aluminium frame with an H-bar divider 10mm wide plugged at 1100mm high above floor level.</u>					
75	Pin boards size 1500 x 1200mm high overall, plugged to wall. A : 4 B : 6 C : 6 D : 3 E : 1 G : 1 H : 1 J : 1 L : 0 M : 0 W : 4	No	27		
<u>"Parrot" White-Magnetic Board including concealed mounting and slide-in aluminium pen tray (450 x 35mm), and Anodised Aluminium frame with an H-bar divider 10mm wide plugged at 1100mm high above floor level.</u>					
76	White Magnetic Boards size 2400 x 1200mm high overall, plugged to wall. A : 2 B : 6 C : 6 D : 2 E : 0 G : 1 H : 1 J : 1 L : 0 M : 0 W : 4	No	23		
<u>PELMETS AND CURTAIN TRACKS</u>					
77	Box type pressed steel pelmets 112mm high x 127mm projecting from wall face including one aluminium I-section curtain track with 12 rollers per metre, end stops, return ends and fixing brackets plugged to wall A : 35 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m	35		
Carried to Collection				R	
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>BATHROOM FITTINGS</u>					
78	<p>Approved white built-in type medicine cabinet size 380 x 610 x 100mm deep with mirror front and glass shelves and building Approved white built-in type medicine cabinet size 380 x 610 x 100mm deep with mirror front and glass shelves and building in tiled or plastered wall including forming recess in brickwork and making good tiled or plastered wall including forming recess</p> <p>A : 1 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 0 J : 0</p> <p>L : 0 M : 0 W : 0</p>	No	1		
79	<p>Satin finish stainless steel wall mounted soap dispenser size 304mm x 100mm and 134mm deep, with a replaceable and refillable 1 litre soap container, cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws.</p> <p>A : 3 B : 0 C : 6 D : 0</p> <p>E : 1 G : 2 H : 0 J : 4</p> <p>L : 4 M : 1 W : 4</p>	No	25		
80	<p>Satin stainless steel toilet roll holders with spindle system size 304mm x 156mm and 140,7mm deep for 2 rolls maximum 108mm diameter, cylinder lock with standard lock key, plugged and screwed to the wall with stainless steel screws.</p> <p>A : 3 B : 0 C : 8 D : 0</p> <p>E : 1 G : 2 H : 0 J : 4</p> <p>L : 3 M : 1 W : 6</p>	No	28		
81	<p>Grade 304 18/10 stainless steel automatic hands free hand dryer, size 284mm x 202mm and 248mm deep with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws, 200 W motor connected to 230/240 volt power supply.</p> <p>A : 3 B : 0 C : 6 D : 0</p> <p>E : 1 G : 2 H : 0 J : 3</p> <p>L : 3 M : 1 W : 4</p>	No	23		
Carried to Collection				R	
Section 3: Building Works Bill No. 11: Ironmongery					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

82	19mm Stainless steel chromium plated towel rail, 600mm long, with end brackets plugged to plastered or tiled wall	No	14		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 12 M : 0 W : 0				
83	19mm Stainless steel chromium plated shower curtain rail, 900mm long, with end brackets plugged to plastered or tiled wall	No	8		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 8 M : 0 W : 0				
84	6 Litre "Tidy Bin" rubbish disposal bin	No	17		
	A : 0 B : 0 C : 2 D : 0				
	E : 1 G : 2 H : 0 J : 3				
	L : 4 M : 1 W : 4				
	<u>TOWEL HOOKS</u>				
85	Standard towel hooks, chrome plated double hook fixed to 12mm thick meranti backing board, plugged and screwed to wall	No	4		
	A : 4 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
	Carried to Collection			R	
	Section 3: Building Works Bill No. 11: Ironmongery				
	CONTRACT/TENDER NO: RFP 347/2022				

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		123	
		124	
		125	
		126	
		127	
		128	
		129	
		130	
		131	
		132	
		133	
		134	
		135	
		136	
		137	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works			
Bill No. 11: Ironmongery			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO 12: STRUCTURAL STEELWORK</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p>				
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p> <p>All bolts to be M16 electro-galvanised.</p> <p>All steelwork to be hot dip galvanised to ISO 1461-1999</p> <p><u>General</u></p> <p>All dimensions are to be checked with engineer's drawings and any discrepancies brought to the Principal's project manager's attention before any construction work commences</p> <p><u>Structural Steelwork</u></p>				
	<p style="text-align: right;">Carried to Collection</p>			R	
	<p>Section 3: Building Works</p> <p>Bill No. 12: Structural Steelwork (Provisional)</p>				
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.**EMIS NUMBER: 600102163**

All structural steelwork shall be fabricated and erected in accordance with the latest edition of SABS 1200H

All dimensions shall be checked on site before shop drawings commence. Any discrepancies shall be brought to the attention of the Principal's project manager

A complete set of shop drawings shall be submitted to the engineer for approval before fabrication commences. The contractor shall allow one week for checking and approval by the Principal's project manager, and shall also allow for any possible changes to drawings

The contractor shall design all welds and, where necessary, gussets of sufficient strength, shall be approved to obtain the required weld strength

Setting out points (S.O.P's) at member centroids shall conform to those shown on general arrangement drawings. No eccentricities, except those shown on the engineer's drawings, shall be allowed

All structural steelwork shall be grade 300W except cold formed hollow sections which shall be commercial grade

A certificate from the steel manufacturer in which the grade of the structural steel is verified shall be handed to the Principal's project manager for approval

All structural bolts shall be grade 8.8 unless otherwise noted

The proposed method and sequence of erection of the structure shall be submitted to the Principal's Project Manager for written approval. Such submission is to take place at time of shop drawing submittal. The contractor shall indicate the proposed method of propping to ensure stability of the structure during erection. Such stability during erection remains the contractor's responsibility. Where temporary bracing and propping is necessary, the contractor shall be responsible for the design, erection, maintenance and removal (where necessary) of such supports. Proposal of such bracing or propping shall be submitted to the Principal's project manager at an early stage for written approval

Carried to Collection**R**

Section 3: Building Works
Bill No. 12: Structural Steelwork (Provisional)

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

<u>STEEL COLUMNS AND BEAMS WITH FACTORY APPLIED RED OXIDE COATING</u>					
<u>Welded beams single lengths with flat section bearer and connection plates bolted to brickwork/concrete</u>					
1	250 x 100 x 3.5mm RHS beam A : 0.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 G : 0.00 H : 0.00 J : 3.00 L : 0.00 M : 0.00 W : 0.00	t	3.00		
<u>Welded columns single lengths with bottom bolted onto concrete (concrete measured elsewhere) and flat section top base plate and connection plates bolted to concrete / steel including bolts</u>					
2	100 x 100 x 2.5mm SHS columns A : 0.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 G : 0.00 H : 0.00 J : 1.00 L : 0.00 M : 0.00 W : 0.00	t	1.00		
<u>Bolts to columns, beams, angles, etc</u>					
3	M12 x 100mm long chemical expansion bolts including holes in sides of concrete / brickwork A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 24 L : 0 M : 0 W : 0	No	24		
4	M16 x 100mm long chemical expansion bolts including holes in sides of concrete / brickwork A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 24 L : 0 M : 0 W : 0	No	24		
<u>GALVANISED PURLINS, GIRTS, BRACING, ETC</u>					
<u>Purlins and girts bolted to steel</u>					
5	76 x 50 x 8mm RHS purlins A : 0.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 G : 0.00 H : 0.00 J : 3.00 L : 0.00 M : 0.00 W : 0.00	t	3.00		
Carried to Collection				R	
Section 3: Building Works Bill No. 12: Structural Steelwork (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>Welded bracing etc with flat section connection plates bolted to steel</u>					
6	120 x 120 x 8 Angle section bracing A : 0.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 G : 0.00 H : 0.00 J : 1.00 L : 0.00 M : 0.00 W : 0.00	t	1.00		
<u>Base plates, etc</u>					
7	12mm Connection plate A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 120 L : 0 M : 0 W : 0	kg	120		
<u>Sundries, etc</u>					
8	chamfer off corners on exposed edges. A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 50 L : 0 M : 0 W : 0	m2	50		
Carried to Collection					R
Section 3: Building Works Bill No. 12: Structural Steelwork (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

EMIS NUMBER: 600102163

-144-

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 13: METALWORK</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE:</p> <p>Windows shall be provided with chromium plated brass fittings</p> <p>All horizontal pivot windows to be fitted with cup keeps on pivot for maximum opening of 25 degrees</p> <p>The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for any extras in this regard will be entertained</p> <p>Where described windows shall be provided with burglar bars to opening and fixed sections, consisting of 20 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and window frames</p> <p>Bars in front of fixed sections to be bent 75mm away from the glass surface.</p> <p>Details and specification of all windows shall be as per window schedule appended to the back of these bills of quantities</p> <p>The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for any extras in this regard will be entertained</p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section 3: Building Works Bill No. 13: Metalwork</p>			
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>TRADE NAMES</u>					
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent					
<u>DESCRIPTIONS</u>					
Descriptions of bolts shall be deemed to include nuts and washers					
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete					
Metalwork described as "holed for bolts" shall be deemed to include the bolts unless otherwise described					
<u>STEEL HANDRAILS, BALUSTRADES, ETC</u>					
<u>Welded handrails to steel support</u>					
1	50mm diameter Mild steel hand rail welded to steel support and finished with 1 universal undercoat and two coats velvagio.	m	54		
	A : 19 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 35 M : 0 W : 0				
<u>Welded balustrading to rail and cleats</u>					
2	10mm Diameter Balustrade rails in short height of 1100mm, max gap between rails = 110mm, gap between rails to be equal	m	54		
	A : 19 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 35 M : 0 W : 0				
3	40mm wide x 10mm thick Top and bottom mild steel flat bar welded to balustrade posts	m	54		
	A : 19 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 35 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works Bill No. 13: Metalwork					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<u>Cleats, plates and brackets, etc</u>				
4	100 x 100 x 10mm Mild steel base plate with two slotted bolts holes bolted to brickwork	No	24		
	A : 9 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 15 M : 0 W : 0				
5	M16 Bolts with nuts and washers	kg	35		
	A : 12 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 23 M : 0 W : 0				
6	50mm Diameter mild steel posts welded to base plate	No	24		
	A : 9 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 15 M : 0 W : 0				
	<u>STORAGE AND GAS BOTTLE GAGES (DRWG MLK-ARC-064P)</u>				
7	Gas bottle storage	No	1		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 1				
	L : 0 M : 0 W : 0				
	Carried to Collection			R	
	Section 3: Building Works				
	Bill No. 13: Metalwork				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>STEEL GATES, SCREENS, ETC</u>					
<u>The following in framed and welded mild steel security grille gates including fixing in position complete</u>					
8	Gate 3 - Single gate and frame formed of 40 x 60 x 2mm rectangular hollow section framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with five 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing (hinges, locking devices, etc. elsewhere); size 840 x 2067mm high overall A : 2 B : 0 C : 0 D : 0 E : 1 G : 1 H : 1 J : 0 L : 0 M : 0 W : 4	No	9		
9	Single gate formed of 40 x 60 x 2mm rectangular hollow section framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with five 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing (hinges, locking devices, etc. elsewhere); size 813 x 2067mm high overall (D3) A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 1 M : 0 W : 1	No	2		
10	Double gate and frame in two equal leaves, each leaf formed of 40 x 60 x 2mm rectangular hollow section framing all round mitred and welded at angles with two 40 x 6mm flat section horizontal intermediate rails with ends welded to framing and with eight 19mm diameter rod vertical bars framed through intermediate rails with ends welded to framing (hinges, locking devices, etc. elsewhere); size 1526 x 2067mm high overall A : 3 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 4 L : 0 M : 0 W : 1	No	8		
Carried to Collection				R	
Section 3: Building Works Bill No. 13: Metalwork					
CONTRACT/TENDER NO: RFP 347/2022					

<u>SUNDRY STEELWORK</u>				
<u>The following in framed and welded mild steel security grille to reception counter and fixing in position complete</u>				
11	Fixed security screen formed of 30 x 30 x 2,5mm hollow section framing all round mitred and welded at angles filled in with 10mm diameter rods in soldier stretcher brick pattern with vertical bars at 150mm centres and horizontal bars at 300mm centres; the frame drilled for and bolted to brickwork on top and two sides with and including ten M8 x 70mm expansion bolts complete with 12mm long spacers between frame and wall; size 2053 x 1190mm high	No	1	
	A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0			
<u>HOT-DIPPED GALVANISED MILD STEEL</u>				
NOTE				
The following are to be hot-dipped galvanised after fabrication of complete units				
<u>Hot-dipped double spelter galvanised mild steel grab rails formed of 32mm outside diameter x 1,6mm round section rails and 75mm diameter x 3mm flat section fixing flanges each three times holed and bolted to walls with M8 x 50mm expansion bolts</u>				
12	32mm Grab rail 700mm long with two 80mm return ends bolted	No	7	
	A : 1 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 1 L : 2 M : 0 W : 2			
13	32mm Cranked grab rail 300 x 300 x 300mm with two 80mm return ends bolted	No	7	
	A : 1 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 1 L : 2 M : 0 W : 2			
Carried to Collection				R
Section 3: Building Works Bill No. 13: Metalwork				
CONTRACT/TENDER NO: RFP 347/2022				

<u>PRESSED STEEL DOOR FRAMES</u>					
<u>1, 2mm Double rebated frames suitable for half brick walls with two 100mm steel butt hinges per leaf</u>					
14	D2: Standard 1.2mm Thick single rebated pressed steel frame with one shop red oxide to suit opening of 813 x 2032mm high, To SABS 1129-1977 A : 0 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 0 L : 0 M : 1 W : 10	No	12		
15	D3: Standard 1.2mm Thick single rebated pressed steel frame with one shop red oxide to suit opening of 1000 x 2032mm high, To SABS 1129-1977 A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2		
16	D4: Standard 1.2mm Thick single rebated pressed steel frame with one shop red oxide to suit opening of 763 x 2032mm high, To SABS 1129-1977 A : 3 B : 0 C : 8 D : 0 E : 4 G : 2 H : 0 J : 2 L : 1 M : 0 W : 0	No	20		
17	Type D8 Frame for door 762 x 1800mm high A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 4	No	4		
<u>1,2mm Double rebated frames suitable for one brick walls with two 100mm steel butt hinges per leaf</u>					
18	D1: Standard 1.2mm Thick single rebated pressed steel frame with one shop red oxide to suit opening of 813 x 2032mm high, To SABS 1129-1977 A : 0 B : 6 C : 8 D : 3 E : 3 G : 5 H : 1 J : 3 L : 2 M : 1 W : 4	No	36		
Carried to Collection				R	
Section 3: Building Works Bill No. 13: Metalwork					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

19	D2: Standard 1.2mm Thick single rebated pressed steel frame with one shop red oxide to suit opening of 813 x 2032mm high, To SABS 1129-1977 A : 12 B : 0 C : 0 D : 1 E : 2 G : 1 H : 2 J : 5 L : 0 M : 0 W : 0	No	23		
20	D3: Standard 1.2mm Thick single rebated pressed steel frame with one shop red oxide to suit opening of 1000 x 2032mm high, To SABS 1129-1977 A : 1 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 1 L : 2 M : 0 W : 0	No	5		
21	D6: Standard 1.2mm Thick single rebated pressed steel frame with one shop red oxide to suit opening of 1511 x 2032mm high, To SABS 1129-1977 A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 2 L : 0 M : 0 W : 0	No	2		
<u>STRONGROOM, RECORD ROOM DOORS, VENTILATORS, ETC</u>					
NOTE					
The rates for strongroom doors, wall safes and ventilators shall include for fixing in position complete					
22	Standard safe door doorstop fixed to wall A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
23	Double ended steel telescopic ventilator for wall opening size 185 x 185mm suitable for and built into 150mm thick wall, complete with face plates on both sides, drop shutter mechanism operating from fuseable metal plug, wire gauze and baffle plates A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
Carried to Collection				R	
Section 3: Building Works Bill No. 13: Metalwork					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

24	Category 2 heavy duty anti-explosive strongroom door and frame for wall opening size 944 x 1980mm high overall, with a mass of 380kg, 20mm outer plate, two seven lever locks, etc. and fixed in position in opening in 150mm concrete wall A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0 <u>HOT-DIPPED GALVANISED STEEL ROLLER SHUTTER DOORS FIXED COMPLETE TO BRICKWORK</u>	No	1		
25	Garage push-up type roller shutter door suitable for opening size 2500 x 2100mm high with 46mm interlocking 11,5 kg/m2 slatted curtain, channel guide rails, roller drum complete with face mounted shutter box, push-up mechanism, two handles, security lock bolt and locking rod lockable from inside complete with two keys A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 1 L : 0 M : 0 W : 0	No	1		
Carried to Collection					
Section 3: Building Works Bill No. 13: Metalwork					
CONTRACT/TENDER NO: RFP 347/2022					

<u>ALUMINIUM WINDOWS, DOORS, ETC</u>				
<u>Powder coated fixed aluminium window frames with 3mm thick toughened safety glass panel, ironmongery and including burglar bars to fixed and opening sections (colour by others/architect)</u>				
26	Window type W1, size 1200 x 1200mm high as Architect schedule A : 22 B : 54 C : 54 D : 21 E : 11 G : 15 H : 11 J : 8 L : 0 M : 0 W : 14	No	210	
27	Window type W2, size 1022 x 949mm high as Architect schedule A : 5 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 4	No	9	
28	Window type W3, size 1000 x 900mm high as Architect schedule A : 1 B : 0 C : 2 D : 0 E : 4 G : 5 H : 4 J : 2 L : 0 M : 0 W : 4	No	22	
29	Window type W4, size 600 x 900mm high as Architect schedule A : 4 B : 0 C : 8 D : 0 E : 5 G : 5 H : 0 J : 4 L : 10 M : 2 W : 4	No	42	
30	Window type W5, size 1200 x 900mm high as Architect schedule A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 1 W : 0	No	1	
31	Window type W6, size 900 x 1200mm high as Architect schedule A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 5 L : 0 M : 0 W : 0	No	5	
Carried to Collection				R
Section 3: Building Works Bill No. 13: Metalwork				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

32	Window type W7, size 978 x 511mm high as Architect schedule	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
33	Window type W8, size 1511 x 654mm high as Architect schedule	No	8		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 8				
	L : 0 M : 0 W : 0				
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>					
<u>Powder coated aluminium doors including 6mm toughened clear float safety glass complete with subframes, ironmongery, sealing, etc and fixing to brickwork or concrete</u>					
34	Double door size 1790 x 2090mm high in two equal leaves type D20	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
<u>SECURITY PAYROLL WINDOWS</u>					
<u>Glazed panels, fanlights, etc - Payroll Windows</u>					
35	Security payroll windows 1510 x 1100mm high Level G3 bullet resistant natural anodised aluminium pay window with transfer tray (Type 2) with 200mm deep stainless steel bank type transfer tray (Code:G3-PW-T), overall size 600 x 950mm high glazed with 53mm thick clear glass with 32mm post formed Oak counter top and stainless steel exterior counter finish.	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 13: Metalwork					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

36	<p>Security payroll windows 1860 x 1500mm high Level G3 bullet resistant natural anodised aluminium pay window with transfer tray (Type 2) with 200mm deep stainless steel bank type transfer tray (Code:G3-PW-T), overall size 600 x 950mm high glazed with 53mm thick clear glass with 32mm post formed Oak counter top and stainless steel exterior counter finish.</p> <p>A : 2 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0</p>	No	2		
37	<p>Security payroll windows 2000 x 1125mm high Level G3 bullet resistant natural anodised aluminium pay window with a talk- thru holes, glazed with 53mm thick clear glass with 32mm laminated saligna counter top on both side finished with 2 coats eggshell polyurethane varnish as per detail 923-S3-102-BA-wd. 010 - (Accounting Office).</p> <p>A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0</p>	No	1		
<u>SUNDRIES</u>					
38	<p>10500mm High hinge based hot dip galvanised steel white powder coated flag poles complete with all fittings including ropes, pulleys, cleats, galvanised foundation cages and concrete base, etc as detail DT129 on CD</p> <p>A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0</p>	No	1		
Carried to Collection					R
<p>Section 3: Building Works Bill No. 13: Metalwork</p>					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		145	
		146	
		147	
		148	
		149	
		150	
		151	
		152	
		153	
		154	
		155	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works			
Bill No. 13: Metalwork			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 14: PLASTERING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>PLASTER ON CONCRETE</u></p> <p>Plaster described as "on brickwork" shall be deemed to include for small portions of plaster on concrete flush with brickwork and prices should include for all the necessary preparatory work</p> <p>-----</p> <p><u>SCREEDS</u></p> <p><u>3:1 Screeds steel trowelled on concrete</u></p>			
1	<p>25mm Thick on floors and landings to receive ceramic tiles (elsewhere)</p> <p>A : 12 B : 0 C : 0 D : 0</p> <p>E : 0 G : 0 H : 0 J : 0</p> <p>L : 45 M : 0 W : 0</p>	m2	57	
2	<p>25mm Thick on floors and landings to receive self levelled screed (elsewhere)</p> <p>A : 319 B : 363 C : 404 D : 144</p> <p>E : 145 G : 145 H : 104 J : 259</p> <p>L : 77 M : 11 W : 203</p>	m2	2 174	
	Carried to Collection		R	
	<p>Section 3: Building Works</p> <p>Bill No. 14: Plastering</p>			
	CONTRACT/TENDER NO: RFP 347/2022			

<u>Self levelled smooth screeds steel on concrete</u>					
3	25mm Thick on floors and landings to receive vinyl floor tiles (elsewhere)	m2	2 174		
	A : 319 B : 363 C : 404 D : 144				
	E : 145 G : 145 H : 104 J : 259				
	L : 77 M : 11 W : 203				
<u>EPOXY SCREEDS</u>					
<u>Epoxy 9mm thick epoxy floor coating laid to screed (screed elsewhere), all strictly in accordance with approved manufacturers instructions.</u>					
4	30mm thick on floors to falls	m2	93		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 93				
	L : 0 M : 0 W : 0				
5	4 mm skirting 100 mm high, coved at junction with floor and with fair edge and arris next wall finish over, including mitres, etc.	m	105		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 105				
	L : 0 M : 0 W : 0				
<u>INTERNAL PLASTER</u>					
<u>Two coat plaster with gypsum finish on brickwork</u>					
6	On walls	m2	4 029		
	A : 874 B : 255 C : 720 D : 267				
	E : 271 G : 271 H : 161 J : 553				
	L : 174 M : 47 W : 436				
7	On narrow widths	m2	131		
	A : 11 B : 23 C : 26 D : 12				
	E : 10 G : 10 H : 6 J : 18				
	L : 3 M : 1 W : 10				
<u>Cement plaster on concrete</u>					
8	On walls	m2	65		
	A : 65 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works Bill No. 14: Plastering					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

9	On ceilings A : 18 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0 <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC.</u>	m2	18		
10	2 x 30mm Flat section aluminium dividing strip between vinyl and tiled floor finishes A : 18 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 8 M : 0 W : 0	m	26		
11	2 x 30mm Flat section galvanised mild steel water bar embedded in floor finish A : 12 B : 6 C : 6 D : 2 E : 2 G : 2 H : 2 J : 5 L : 2 M : 1 W : 4	m	44		
Carried to Collection					R
Section 3: Building Works Bill No. 14: Plastering					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		157	
		158	
		159	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works Bill No. 14: Plastering			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 15: TILING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>DESCRIPTIONS</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 4:1 cement plaster backing and descriptions of tiling on concrete floors, etc shall be deemed to include 3:1 cement mortar bedding</p> <p>-----</p> <p><u>WALL TILING</u></p> <p><u>150 x 150 x 8mm gloss ceramic wall tiles fixed with an approved tile adhesive and water resistant grouting to plaster (elsewhere) and with jointing compound</u></p>			
1	<p>On walls</p> <p>A : 40 B : 0 C : 72 D : 0</p> <p>E : 0 G : 0 H : 0 J : 8</p> <p>L : 0 M : 0 W : 0</p>	m2	120	
	<p>Carried to Collection</p> <p>Section 3: Building Works</p> <p>Bill No. 15: Tiling</p>		R	
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

2	On walls in isolated panels, splash backs, etc A : 4 B : 0 C : 10 D : 0 E : 0 G : 0 H : 0 J : 12 L : 12 M : 1 W : 6	m2	45		
3	On narrow widths A : 2 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	2		
4	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter (Provisional) A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
5	Fair exposed cutting and fitting around pipe exceeding 50 and not exceeding 100mm internal diameter (Provisional) A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	No	1		
<u>FLOOR TILING</u>					
<u>300 x 300mm Non-slip full body ceramic floor tiles fixed with an approved tile adhesive on cement screed (elsewhere) with and including grouted jointing</u>					
6	On floors and landings A : 70 B : 0 C : 22 D : 0 E : 0 G : 0 H : 0 J : 12 L : 0 M : 0 W : 0	m2	104		
<u>300 x 300 x 22mm Thick approved non-slip porcelain floor tiles on 20mm 3:1 cement mortar bedding on concrete and continuously flush pointed in both direction with tinted epoxy jointing compound, in strict accordance with the manufacturer's instructions</u>					
7	On floors and door openings A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 10 M : 0 W : 0	m2	10		
Carried to Collection				R	
Section 3: Building Works Bill No. 15: Tiling					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>Ceramic cut tile skirting</u>				
8	Skirting 100mm high A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 18 M : 0 W : 0	m	18	
<u>SOAP HOLDERS, ETC.</u>				
9	150 x 150mm White glazed single soap holder and building into tiled or plastered wall including forming recess in brickwork and making good A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 8 M : 0 W : 0	No	8	
<u>SUNDRIES</u>				
10	External PVC trimming to corners (Provisional) A : 12 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 15 L : 0 M : 0 W : 0	m	27	
11	Aluminium edge trim in door threshold (Provisional) A : 12 B : 6 C : 6 D : 2 E : 2 G : 2 H : 2 J : 5 L : 2 M : 1 W : 4	m	44	
Carried to Collection				R
Section 3: Building Works Bill No. 15: Tiling				
CONTRACT/TENDER NO: RFP 347/2022				

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		161	
		162	
		163	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works Bill No. 15: Tiling			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 16: PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREAMBLES</u></p> <p>Tenderers are advised to study the Model Preambles for Trades (1995 edition) as recommended and published by the Association of South African Quantity Surveyors</p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>DESCRIPTIONS AND PREAMBLES</u></p> <p>Reference shall be made to other trades for preambles and full descriptions of items not fully described in this trade which shall apply equally to work in this trade, unless otherwise described</p> <p><u>RATES</u></p> <p>Rates for all piping, fittings, etc shall include for all fixing in position of fittings, cutting of chases in brickwork or concrete, excavation of trenches, backfilling, etc unless otherwise described</p>			
	<p>Carried to Collection</p>		R	
	<p>Section 3: Building Works Bill No. 16: Plumbing and Drainage (Provisional)</p>			
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>			

DIAMETER OF PIPES

Diameters stated for pipes, traps, valves, etc are internal diameters, except uPVC, polyethylene, stainless steel and copper pipes for which external diameters are stated

REDUCING FITTINGS

Where fittings have reducing ends or branches they are described as "reducing"

In the case of pipes with diameters not exceeding 60mm, only the largest end or branch is given. Should the contractor wish to use other fittings and bushes or reducers, he may do so on the understanding that no claim in this regard will be entertained

In the case of pipes with diameters exceeding 60mm, all sizes are given and no claim for extra bushes, reducers, etc will be entertained

uPVC PIPES AND FITTINGS

Sewer and drainage pipes and fittings shall be according to SABS 791, jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be according to SABS 967 and solvent jointed

Cold water supply pressure pipes and fittings shall be according to SABS 966 and jointed by means of the "Lyng" type jointing system

Pipes shall be fixed and jointed according to SABS 0112

COPPER PIPES

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin wall hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper pipes, capillary soldier fittings and compression fittings shall be Cobra Watertech or other equal approved type. Capillary soldier fittings shall comply with ISO 2016

Carried to Collection

R

Section 3: Building Works
Bill No. 16: Plumbing and Drainage (Provisional)

CONTRACT/TENDER NO: RFP 347/2022

<u>HEAVY DUTY POLYETHYLENE PIPING (HDPE)</u>					
HDPE pipes shall be according to SABS 533 and fittings shall be of plastic compression type jointing. Jointing and laying shall be in accordance with the manufacturer's instructions					
<u>WIRE GRATINGS</u>					
Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings					
<u>SANITARY FITTINGS</u>					
<u>Stainless steel</u>					
Stainless steel for basins, washtroughs, bedpan, sinks, etc shall be type 304 (18/10)					
1	Single end bowl drop-on sink and drainer, size 1200 x 535mm with 32 x 7mm fascia complete with chromium plated waste, plug, and chain and fixing in top of timber cabinet (elsewhere)	No	1		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
2	1500mm "Citimental" Ref: DT150C Double bowl stainless steel or similar approved sink in accordance with Architect's specification complete with mounting brackets, stopper and chain by Citimetal or similarly approved	No	2		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
<u>Approved</u>					
3	White C.I. porcelain wall hung enamelled 610 x 460mm wash hand basin, 31mm chromuim plated outlet, with plug and chain, anchor & 32mm back nut complete with and including one chromium plated pillar tap, one tap hole plug.	No	14		
	A : 2 B : 0 C : 6 D : 0				
	E : 3 G : 2 H : 0 J : 0				
	L : 0 M : 1 W : 0				
Carried to Collection				R	
Section 3: Building Works Bill No. 16: Plumbing and Drainage (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

4	White C.I. porcelain wall hung enamelled disabled wash hand basin, 31mm chromuim plated White C.I. porcelain wall hung enamelled 610 x 460mm wash hand basin, 31mm chromuim plated outlet, with plug and chain, anchor & 32mm back nut complete with and including one chromium plated pillar tap, one tap hole plug. plug and chain, anchor & 32mm back nut complete with and including two chromium plated pillar tap, one tap hole plug and provide black soft rubber p-trap.	No	8		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 1 H : 0 J : 1				
	L : 2 M : 0 W : 2				
5	480 x 345 x 220mm (internal dimension) White fireclay laboratory basin with centre outlet fixed with cleats (elsewhere) under worktop	No	16		
	A : 0 B : 0 C : 0 D : 0				
	E : 11 G : 0 H : 5 J : 0				
	L : 0 M : 0 W : 0				
6	1200mm long basin complete as shown on Drawing number MLK - ARC - 054P	No	5		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 3				
	L : 0 M : 0 W : 2				
7	1800mm long basin complete as shown on Drawing number MLK - ARC - 054P	No	2		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 2 M : 0 W : 0				
8	610 x 385mm White vitreous china wall urinal with top flush entry complete with and including concealed wall hangers, chromium plated waste outlet and grating, and 4,5 litre white vitreous china cistern complete with valveless syphonic fitting, ball valve, bracket, surface mounted chromium plated push button user control valve with plastic conduit pipe and chromium plated flush pipe with spreader	No	8		
	A : 1 B : 0 C : 2 D : 0				
	E : 0 G : 2 H : 0 J : 1				
	L : 2 M : 0 W : 0				
Carried to Collection				R	
Section 3: Building Works Bill No. 16: Plumbing and Drainage (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

9	WC suite comprising white vitreous china pan with P trap, 9 litre low-level white vitreous china cistern complete with valve fitting, ball valve and matching flush pipe and heavy duty white single flap seat A : 2 B : 0 C : 8 D : 0 E : 4 G : 2 H : 0 J : 2 L : 1 M : 1 W : 4	No	24		
10	Low level paraplegic W.C suite comprising white vitreous china pan with "P" or "S" trap, 9 litre cistern with chromium plated lever for paraplegic use, complete with lid, fittings and flush pipe and heavy duty white plastic seat and lid A : 1 B : 0 C : 0 D : 0 E : 0 G : 1 H : 0 J : 1 L : 2 M : 0 W : 2	No	7		
<u>SUNDRY SANITARY FITTINGS</u>					
11	Drinking fountain comprising 100 x 50 x 11mm hot-dipped double spelter galvanised mild steel channel section frame 3,7m long with two mitred and welded corners, two 200 x 200 x 4mm base plates cast into and including 300 x 300 300mm 20MPa/19mm mass concrete footings including any necessary excavation, 100mm thick 20MPa/19mm mass concrete slab 2,25m long x 1m wide graded to falls to outlet (water outlet elsewhere), with wood float finish and fitted with and including 20mm diameter galvanised mild steel pipe 2,3m long including three bends, three tees, three reducers, four 22mm chromium plated pillar taps with raised noses, one 20mm brass in-line strainer with stainless steel double mesh strainer basket, one 20mm Class 8 brass fullway gate valve with non-rising spindle and guided wedge and one 20mm brass hose bib tap with lockshield, loose key and hose union A : 0 B : 2 C : 2 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 1	No	5		
Carried to Collection				R	
Section 3: Building Works Bill No. 16: Plumbing and Drainage (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

<u>TRAPS, ETC INCLUDING JOINTS TO PIPES AND/OR FITTINGS UNLESS OTHERWISE DESCRIBED</u>				
12	32-40mm Butyl rubber deep seal P or S trap A : 5 B : 0 C : 6 D : 0 E : 3 G : 3 H : 5 J : 6 L : 4 M : 1 W : 6	No	39	
13	32-40mm Chromium plated bottle trap A : 1 B : 0 C : 2 D : 0 E : 0 G : 2 H : 0 J : 1 L : 2 M : 0 W : 0	No	8	
14	50mm Brass shower trap including waste with 75mm chromium plated flat grating cast into concrete and bedded in bitumen and jointed to steel pipe (elsewhere) A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 8 M : 0 W : 0	No	8	
<u>TAPS, VALVES, ETC INCLUDING JOINTS TO COPPER PIPES AND/OR FITTINGS WITH CAPILLARY CONNECTIONS UNLESS OTHERWISE DESCRIBED</u>				
15	15mm Copper service pipe 350mm girth A : 1 B : 0 C : 12 D : 0 E : 4 G : 0 H : 0 J : 2 L : 2 M : 1 W : 2	No	24	
16	15mm Brass stopcock A : 0 B : 0 C : 10 D : 0 E : 5 G : 0 H : 0 J : 7 L : 4 M : 1 W : 4	No	31	
17	15mm Chromium plated wall flange and extension piece A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 2	No	2	
Carried to Collection				
Section 3: Building Works Bill No. 16: Plumbing and Drainage (Provisional)				
CONTRACT/TENDER NO: RFP 347/2022				

EMIS NUMBER: 600102163

-171-

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

25	Cobra Watertech 15mm chrome plated elbow action pillar-type mixer with overarm swivel outlet (Code: 521-21), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).All pipes to be fitted with Cobra Watertech 15mm ball type angle valve with 350mm flexible hose connector (Code: 32/350F) and all drains behind the Universal Half pedestal to have a Cobra Watertech 40mm rough brass shallow seal bath P trap with FI outlet and two cleaning eyes (Code: 370) or approved equivalent.	No	8		
	A : 2 B : 0 C : 0 D : 0				
	E : 0 G : 1 H : 0 J : 1				
	L : 2 M : 0 W : 2				
26	15mm Chromium plated hose bib tap without hose union	No	8		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 8 M : 0 W : 0				
27	15mm Chromium plated sink pillar tap with 305mm swanneck outlet with serrated nozzle	No	8		
	A : 1 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 5 J : 2				
	L : 0 M : 0 W : 0				
28	15mm Chromium plated sink wall type sink mixer	No	2		
	A : 0 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 2				
	L : 0 M : 0 W : 0				
29	20mm Brass vacuum breaker	No	8		
	A : 1 B : 0 C : 2 D : 0				
	E : 1 G : 0 H : 0 J : 1				
	L : 1 M : 1 W : 1				
30	400KPa brass pressure reducing valve	No	7		
	A : 1 B : 0 C : 2 D : 0				
	E : 1 G : 0 H : 0 J : 1				
	L : 0 M : 1 W : 1				
Carried to Collection				R	
Section 3: Building Works					
Bill No. 16: Plumbing and Drainage (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

31	Surface mounted 20mm Chrome plated junior urinal flushmaster with integral shut-off valve and wall plate (code FJ2.210) by Cobra.	No	12		
	A : 2 B : 0 C : 2 D : 0				
	E : 0 G : 2 H : 0 J : 2				
	L : 2 M : 0 W : 2				
	<u>SANITARY PLUMBING</u>				
	<u>SABS 966 - pipes</u>				
32	50mm Pipes laid in /under floors or fixed to walls, slabs, roof timbers, etc	m	320		
	A : 20 B : 0 C : 30 D : 0				
	E : 70 G : 25 H : 25 J : 40				
	L : 65 M : 5 W : 40				
33	110mm Pipes laid in /under floors or fixed to walls, slabs, roof timbers, etc	m	590		
	A : 240 B : 0 C : 70 D : 0				
	E : 55 G : 45 H : 15 J : 55				
	L : 30 M : 15 W : 65				
	<u>Extra over uPVC class 34 pipes for fittings</u>				
34	50mm Elbow	No	94		
	A : 5 B : 0 C : 10 D : 0				
	E : 20 G : 5 H : 8 J : 17				
	L : 9 M : 3 W : 17				
35	110mm Elbow	No	74		
	A : 5 B : 0 C : 10 D : 0				
	E : 15 G : 7 H : 3 J : 12				
	L : 5 M : 5 W : 12				
36	50mm Elbow with inspection eye	No	30		
	A : 3 B : 0 C : 6 D : 0				
	E : 0 G : 3 H : 3 J : 5				
	L : 4 M : 1 W : 5				
37	110mm Elbow with inspection eye	No	45		
	A : 3 B : 0 C : 6 D : 0				
	E : 9 G : 4 H : 1 J : 9				
	L : 2 M : 2 W : 9				
	Carried to Collection			R	
	Section 3: Building Works				
	Bill No. 16: Plumbing and Drainage (Provisional)				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

38	50mm 45 Degree bend with inspection eye A : 3 B : 0 C : 6 D : 0 E : 5 G : 3 H : 2 J : 5 L : 3 M : 1 W : 5	No	33		
39	110mm 45 Degree bend with inspection eye A : 3 B : 0 C : 6 D : 0 E : 8 G : 4 H : 1 J : 5 L : 2 M : 2 W : 5	No	36		
40	50mm to 50mm single 45 Degree junction A : 3 B : 0 C : 6 D : 0 E : 5 G : 3 H : 0 J : 5 L : 0 M : 1 W : 5	No	28		
41	110mm to 110mm to 50mm Double 45 Degree junction A : 5 B : 0 C : 10 D : 0 E : 10 G : 5 H : 3 J : 8 L : 7 M : 1 W : 8	No	57		
42	110mm to 110mm to 110mm Double 45 Degree junction A : 8 B : 0 C : 16 D : 0 E : 9 G : 6 H : 1 J : 5 L : 8 M : 2 W : 5	No	60		
43	110mm to 50mm Reducer A : 0 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 1 W : 0	No	1		
44	110mm Pan connector A : 4 B : 0 C : 8 D : 0 E : 4 G : 3 H : 0 J : 4 L : 3 M : 1 W : 6	No	33		
45	110mm Soil and Vent Cowl A : 2 B : 0 C : 4 D : 0 E : 5 G : 2 H : 1 J : 3 L : 2 M : 1 W : 3	No	23		
46	110mm "GI Two-way" vent valve A : 1 B : 0 C : 2 D : 0 E : 1 G : 1 H : 1 J : 1 L : 1 M : 1 W : 1	No	10		
Carried to Collection				R	
Section 3: Building Works Bill No. 16: Plumbing and Drainage (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

47	110mm ABC cleaning eye in end of pipe A : 3 B : 0 C : 6 D : 0 E : 3 G : 3 H : 1 J : 3 L : 1 M : 1 W : 3	No	24		
	<u>Precast concrete gulleys</u>				
48	Gulley not exceeding 1m deep to invert comprising 100mm diameter vitrified clay gulley trap and head, fitted with 190mm diameter cast iron grating, including excavating for, bedding on and encasing in 15MPa/19mm mass concrete and fitted with and including precast gulley top bedded in (3:1) cement mortar A : 1 B : 0 C : 2 D : 0 E : 0 G : 0 H : 0 J : 1 L : 1 M : 1 W : 1	No	7		
	<u>TESTING</u>				
49	Testing water pipe system A : 1.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 G : 0.00 H : 0.00 J : 0.00 L : 0.00 M : 0.00 W : 0.00		Item		
Carried to Collection					R
Section 3: Building Works Bill No. 16: Plumbing and Drainage (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		165	
		166	
		167	
		168	
		169	
		170	
		171	
		172	
		173	
		174	
		175	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works			
Bill No. 16: Plumbing and Drainage (Provisional)			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 17: GLAZING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p>-----</p> <p><u>MIRRORS</u></p> <p><u>Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with foam backing strip all round to plugs in walls</u></p>			
1	<p>6mm "GG" quality polished glass mirror 450 x 600mm high with polished edges fixed to wall with four 35mm round nose chromium plated mirror screws</p> <p>A : 4 B : 0 C : 4 D : 0</p> <p>E : 1 G : 2 H : 0 J : 4</p> <p>L : 6 M : 1 W : 4</p>	No	26	
	<p>Carried Forward to Summary of Section No. 2</p> <p>Section 3: Building Works Bill No. 17: Glazing</p>		R	
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 3</u></p> <p><u>BILL NO. 18: PAINTWORK</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>TRADE NAMES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>PAINT SPECIFICATION</u></p> <p>All materials for paintwork for which South African Bureau of Standards specifications have been published shall comply the requirements of such specifications and shall bear the standardisation mark of the South African Bureau of Standards on the container or packing. Materials for paintwork for which no SABS specifications have been published shall be of a brand and manufacture approved by the Director-General prior to its use</p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section 3: Building Works Bill No. 18: Paintwork</p>			
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			

DISTINCTION FOR COLOUR

Paintwork in different colours has not been measured separately, except for colours which have a value of 7 or less on the Munsell system as described above as well as for the following:

Paintwork on mouldings and bands picked out in colours differing from the surrounding paintwork of the same material

Paintwork on walls, ceilings, etc to patterns in more than one colour are described separately as "in patterned multi-colours"

Paint in dado's has not been measured separately, neither are cutting in of edges measured. Prices shall include for cutting in of contrasting colours or paints and masking as required.

PROFILED SURFACES

Painting of profiled surfaces are measured over the flat area, unless otherwise described

PROTECTION AGAINST CORROSION

Prices for painting structural steelwork are to include for corrosion protection as PW 371 clause 18.9.1 (c). See "Metalwork" for 18.9.1(a) (b) and (d)

STRUCTURAL STEELWORK

All damaged paint areas are to be repaired in accordance with the original specification after completion of erection

All paint to structural steelwork is to be sourced from an approved paint manufacturer and to be applied in accordance with the manufacturers specifications

All bolts are to be degreased prior to erection and painted after erection

Carried to Collection

R

Section 3: Building Works
 Bill No. 18: Paintwork

CONTRACT/TENDER NO: RFP 347/2022

<u>PAINTWORK, ETC TO NEW WORK</u>					
<u>ON FLOATED PLASTER</u>					
<u>Prepare, stop and apply one coat masonry primer and two coats acrylic PVA paint</u>					
1	On internal plastered walls A : 874 B : 255 C : 720 D : 267 E : 271 G : 271 H : 161 J : 553 L : 174 M : 7 W : 436	m2	3 989		
2	On narrow widths A : 13 B : 23 C : 26 D : 13 E : 8 G : 10 H : 6 J : 29 L : 3 M : 1 W : 10	m2	143		
<u>Prepare, stop and apply one coat universal undercoat and one coat acrylic PVA paint</u>					
3	On internal bagged walls A : 1 B : 0 C : 0 D : 0 E : 0 G : 0 H : 0 J : 0 L : 0 M : 0 W : 0	m2	1		
<u>ON PLASTERBOARD</u>					
<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>					
4	On internal plasterboard ceilings including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer A : 389 B : 363 C : 540 D : 189 E : 145 G : 194 H : 128 J : 352 L : 96 M : 11 W : 260	m2	2 668		
Carried to Collection				R	
Section 3: Building Works Bill No. 18: Paintwork					
CONTRACT/TENDER NO: RFP 347/2022					

<u>ON FIBRE-CEMENT</u>					
<u>Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use</u>					
5	On external fibre-cement fascias and barge boards including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	271		
	A : 25 B : 46 C : 54 D : 20				
	E : 14 G : 22 H : 18 J : 25				
	L : 16 M : 7 W : 23				
<u>ON CONCRETE SURFACES</u>					
<u>Prepare and apply one coat solvent free epoxy polyamide sealer and three coats based epoxy polyamide paint</u>					
6	On shower floors and kerbs	m2	12		
	A : 12 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
<u>ON METAL</u>					
<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint</u>					
7	On pressed steel door frames	m2	87		
	A : 0 B : 7 C : 21 D : 5				
	E : 7 G : 7 H : 4 J : 17				
	L : 5 M : 2 W : 13				
8	On strongroom doors and frames	m2	4		
	A : 4 B : 0 C : 0 D : 0				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
9	On sashes, windows and frames with burglar bars (both sides measured)	m2	795		
	A : 80 B : 156 C : 169 D : 60				
	E : 48 G : 59 H : 39 J : 110				
	L : 11 M : 2 W : 61				
Carried to Collection				R	
Section 3: Building Works Bill No. 18: Paintwork					
CONTRACT/TENDER NO: RFP 347/2022					

		<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>			
10	On grille gates and screens (both sides measured on flat)	m2	100		
	A : 33 B : 0 C : 0 D : 0				
	E : 4 G : 4 H : 4 J : 25				
	L : 4 M : 0 W : 27				
		<u>ON WOOD</u>			
		<u>Prepare, stop and apply two full coats polyurethane clear eggshell varnish, lightly sanded down between coats</u>			
11	On skirtings, rails, etc. not exceeding 300mm girth	m	1 610		
	A : 325 B : 205 C : 268 D : 100				
	E : 101 G : 101 H : 60 J : 206				
	L : 65 M : 18 W : 162				
		<u>Prepare, stop and apply one coat wood primer and two coats PVA paint</u>			
12	On doors	m2	325		
	A : 0 B : 23 C : 68 D : 15				
	E : 27 G : 27 H : 11 J : 54				
	L : 16 M : 8 W : 76				
13	On sashes, windows and frames (both sides measured)	m2	3		
	A : 0 B : 0 C : 0 D : 3				
	E : 0 G : 0 H : 0 J : 0				
	L : 0 M : 0 W : 0				
				Carried to Collection	R
				Section 3: Building Works	
				Bill No. 18: Paintwork	
				CONTRACT/TENDER NO: RFP 347/2022	

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		178	
		179	
		180	
		181	
		182	
Carried Forward to Summary of Section No. 2			R
Section 3: Building Works			
Bill No. 18: Paintwork			
CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

Bill No	Section No. 2			
	Section 3: Building Works			
	<u>SECTION SUMMARY - Section 3: Building Works</u>		Page No	Amount
	1	Bill No. 1: Demolitions	60	
	2	Bill No. 2: Earthworks (Provisional)	66	
	3	Bill No. 3: Concrete, Formwork and Reinforcement	73	
	4	Bill No. 4: Precast Concrete	76	
	5	Bill No. 5: Masonry	84	
	6	Bill No. 6: Waterproofing	87	
	7	Bill No. 7: Roof Coverings, etc	91	
	8	Bill No. 8: Carpentry and Joinery	114	
	9	Bill No. 9: Ceilings, Partitions and Access Flooring	119	
	10	Bill No. 10: Floor Coverings, Plastic linings, etc	122	
	11	Bill No. 11: Ironmongery	138	
	12	Bill No. 12: Structural Steelwork (Provisional)	144	
	13	Bill No. 13: Metalwork	156	
	14	Bill No. 14: Plastering	160	
	15	Bill No. 15: Tiling	164	
	16	Bill No. 16: Plumbing and Drainage (Provisional)	176	
	17	Bill No. 17: Glazing	177	
18	Bill No. 18: Paintwork	183		

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 4</u> <u>BILL NO. 1: BULK EARTHWORKS</u> NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill NOTE: All unit rates must take into account and will be assumed to include all applicable taxes. No additional claims relating to taxes will be entertained.				
	<u>SITE CLEARANCE ETC</u> <u>Site clearance</u> 1 Stripping average 200mm thick layer of top soil and stockpiling on site	m2	26 060		
	<u>REMOVAL OF TREES ETC</u> <u>Cutting down, taking out and removing, grubbing up roots and filling the holes</u> 2 Tree stump exceeding 200mm and not exceeding 500mm girth 3 Tree stump exceeding 500mm and not exceeding 1000mm girth	No No	4 1		
	<u>BULK EARTHWORKS</u> <u>Open face excavation in earth over sloping site and depositing excavated material in prescribed stock piles on site</u> 4 Open face excavation	m3	17 484		
	<p style="text-align: right;">Carried to Collection</p> <p>Section 4: External Works (Provisional) Bill No. 1: Bulk EarthWorks</p> <p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			R	

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Extra over bulk excavation in earth for excavation</u>				
5	Soft rock	m3	1 580		
6	Hard rock	m3	790		
	<u>Extra over all excavations for carting away</u>				
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	7 901		
	<u>Keeping excavations free of water</u>				
8	Keeping excavations free of water		Item		
	<u>Approved natural gravel filling supplied by the contractor compacted to 98% Mod AASHTO density</u>				
9	150mm sub-base layer of selected G7 gravel material to comply with maximum CBR 45, imported from commercial sources and compacted to 95% modified AASHTO density including 63mm stone compacted to 93% modified AASHTO density	m3	5 212		
10	150mm sub-base layer of selected G5 gravel material to comply with maximum PI 10, imported from commercial sources and compacted to 100% modified AASHTO density including 63mm stone compacted to 93% modified AASHTO density	m3	6 136		
	<u>Compaction of surfaces</u>				
11	Compaction of ground surface under floors etc including scarifying for a depth of 100mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	26 060		
	<u>Prescribed density tests on filling</u>				
12	"Modified AASHTO Density" test	No	521		
	<u>Soil insecticide</u>				
13	Under platforms, etc. including forming and poisoning shallow furrows, etc. filling in furrows and ramming	m2	26 060		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 1: Bulk EarthWorks				
	CONTRACT/TENDER NO: RFP 347/2022				

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		185	
		186	
Carried Forward to Summary of Section No. 3			R
Section 4: External Works (Provisional) Bill No. 1: Bulk EarthWorks			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 2: EXTERNAL PLUMBING AND DRAINAGE</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: All unit rates must take into account and will be assumed to include all applicable taxes. No additional claims relating to taxes will be entertained.			
	<u>STORMWATER DRAINAGE</u>			
	<u>CONCRETE CHANNELS</u>			
	<u>Class 75D concrete pipes with interlocking joints</u>			
1	600mm Pipes laid in and including trenches exceeding 1m and not exceeding 1.5m deep	m	253	
2	750mm Pipes laid in and including trenches exceeding 1m and not exceeding 1.5m deep	m	20	
	<u>Class 100D concrete pipes with interlocking joints</u>			
3	1050mm Pipes laid in and including trenches exceeding 1m and not exceeding 1.5m deep	m	12	
4	Backfilling to drain trenches compacted to 93 % Modified AASHTO maximum dry density	m3	33	
5	Sub base material compacted to 95% Modified AASHTO maximum dry density	m3	33	
6	19mm Crushed stone encasing to pipes	m3	56	
7	Unreinforced concrete class "15" bedding under pipes	m3	12	
	<u>Kerb Inlets: with transition pieces:</u>			
8	1,0 x 1,0m grid inlet complete with frame	No	8	
	Carried to Collection		R	
	Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage			
	CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Sumps, catch pits, inspection chambers, etc including concrete kerbs or precast concrete cover slabs (gratings and covers elsewhere)</u>				
9	450 x 450mm Brick catch pit exceeding 1000mm and not exceeding 1500mm deep internally	No	25		
	<u>Headwall and wingwall outlet type detailed with disappers for</u>				
10	450 mm dia pipe	No	5		
11	Grouted stone pitching to outlets including trimming and compaction	m2	25		
	<u>Precast concrete circular manhole 1050mm diameter internally with "Rocla" Type 4 cast iron heavy duty circular manhole and cover</u>				
12	Manhole not exceeding 750mm deep	No	2		
13	Manhole exceeding 750mm and not exceeding 1000mm deep	No	5		
14	Manhole exceeding 1000mm and not exceeding 1250mm deep	No	7		
15	Manhole exceeding 1250mm and not exceeding 1500mm deep	No	1		
	<u>Cast iron gratings, covers, etc</u>				
16	Approved light duty dished 450 x 450mm Grid inlets including frames	No	25		
17	Approved light duty dished 800 x 800mm Grid inlets including frames	No	5		
	<u>Testing</u>				
18	Testing waste pipe system		Item		
Carried to Collection				R	
Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Precast concrete channels</u>				
19	Concrete channel size 200 x 150mm deep internally with 50 x 50mm triangular fillets in channels including all excavations, concreting, brickwork, reinforcement, formwork, plastering, etc	m	723		
	<u>MILD STEEL WORK, ALL PRIMED BEFORE DELIVERY</u>				
20	Wecrolock AW 38 x 38 x 6mm heavy duty grating as cover to rainwater channel set into and including 60 x 60 x 6mm angle frame, size overall 1800 x 450mm wide	m	140		
21	Extra over last for corner intersection	No	19		
	<u>Two coats black epoxy paint on shop-primed steel (both sides measured)</u>				
22	On Wecrolok heavy duty gratings	m2	136		
	<u>WATER RETICULATION</u>				
	<u>Excavation in earth or compacted filling not exceeding 2m deep</u>				
23	Trenches	m3	493		
	<u>Extra over bulk excavation in earth for excavation in</u>				
24	Intermediate excavation	m3	53		
25	Hard rock	m3	158		
26	Hand excavation and backfill where ordered by the Engineer	m3	100		
27	Backfill stabilized with 5% cement where directed by the Engineer	m3	50		
28	Soil-crete backfill where directed by the Engineer	m3	50		
	<u>Extra over all excavations for carting away</u>				
29	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	100		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Backfilling or Excavation ancillaries:</u>				
30	Back filling to excavations with material from stock piles on site or other necessary excavations on site	m3	100		
31	Back filling to excavations with materials imported from commercial or off-site sources selected by the Contractor	m3	100		
	<u>Provision of bedding from trench excavations: (sieved material)</u>				
32	Selected fill blanket	m3	79		
	<u>Supply only of bedding by importation:</u>				
33	Selected cradle material	m3	118		
	<u>uPVC pipe class 9:</u>				
	<u>Supply, lay, bed and test on a flexible bedding, complete with couplings</u>				
34	90mm dia	m	657		
	<u>Extra over items for the pressure pipe line, supplying, laying, and bedding of uPVC specials complete with couplings:</u>				
	<u>Bends, uPVC Class 12</u>				
35	90mm dia x 11.25 Degree	No	25		
36	90mm dia x 22.5 Degree	No	32		
37	90mm dia x 45 Degree	No	3		
38	90mm dia x 90 Degree	No	9		
	<u>Equal T-pieces uPVC Class 12</u>				
39	90 x 90 mm dia	No	5		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Reducing TEE</u>				
40	90 x 75mm dia Reducing T	No	19		
	<u>Concrete grade 15/20 mm including formwork</u>				
41	Anchor/thrust blocks and pedestals:	m3	20		
	<u>Construct Valve and Hydrant chambers including excavation, concrete rings, manhole cover, soilcrete floor, including valve or hydrant and dispose of surplus material as shown on drawings</u>				
42	Valve chamber and 90mm valve	No	11		
43	Fire hydrant chamber and 75mm hydrant	No	2		
	<u>Water connection from water main line including excavation, supply, lay and bed of 20 mm dia HDPE Class 6 pipe with all fittings, bedding material, back fill, saddle, pipe specials, stopcock and dispose of surplus material as shown on drawings</u>				
44	Long single	No	11		
	<u>Supply and install meters complete with couplings:</u>				
45	20mm Kent or similar approved	No	2		
46	Site testing of meters, when ordered	No	2		
	<u>Supply and install stop taps complete with special fittings:</u>				
47	20mm stop valve	No	2		
	<u>Supply and install surface boxes:</u>				
48	Single manifold water meter boxes	No	2		
	<u>Bulk Water meter 75mm</u>				
49	Construct Valve and Bulk meter chambers including excavation, concrete rings, manhole cover, soil-crete floor, valves and meter and dispose of surplus material as shown on drawings	No	4		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Standpipe complete as per Engineer's drawing</u>				
50	Including all excavations, 1,5m long 20mm galvanized pipe with all fittings required to complete item	No	2		
	<u>SEWER DRAINAGE</u>				
	<u>Excavation in earth or compacted filling not exceeding 2m deep</u>				
51	Trenches	m3	319		
	<u>Extra over bulk excavation in earth for excavation in</u>				
52	Hard rock	m3	77		
53	Hand excavation and backfill where ordered by the Engineer	m3	100		
54	Backfill stabilized with 5% cement where directed by the Engineer	m3	50		
55	Soil-crete backfill where directed by the Engineer	m3	100		
	<u>Extra over all excavations for carting away</u>				
56	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	383		
	<u>Excavation ancillaries:</u>				
57	From other necessary excavations on Site	m3	102		
58	From other necessary excavations on Site	m3	446		
59	By importation from commercial or off-site sources selected by the Contractor	m3	102		
	<u>Supply, lay, bed and test uPVC Heavy duty pipe, Class 34 on flexible bedding, complete with couplings:</u>				
60	160mm dia uPVC pipes	m	750		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Provision of bedding from trench excavations:</u> <u>(sieved material)</u>				
61	Selected fill blanket	m3	55		
	<u>Supply only of bedding by importation:</u>				
	<u>From commercial sources:</u>				
62	Selected cradle material	m3	94		
	<u>Precast concrete manhole (1000 mm nom dia) for the following depths and as indicated on drawings, complete with heavy duty lockable concrete cover (with locking mechanism) and frame. Include for extra excavation in all type of material, channel pieces, benching and all specials to connect to 160 mm dia pipes.</u>				
63	Over 1,0 m up to 2,0 m	No	11		
	<u>Fittings for Erf connections</u>				
64	10mm dia uPVC rodding eye	No	10		
65	110mm dia uPVC inspection eye	No	12		
66	1110mm dia uPVC 450 bend	No	106		
67	110mm dia uPVC Y - junction	No	15		
68	110 - 160mm dia uPVC Y - junction	No	15		
69	110 End cap	No	60		
	<u>Anchor blocks:</u>				
70	Class 20 MPa/19 mm concrete	m3	25		
Carried to Collection				R	
Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage					
CONTRACT/TENDER NO: RFP 347/2022					

	<u>CONSERVANCY TANK</u>				
	<u>TRENCHES FOR RISING MAINS</u>				
	<u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material :</u>				
71	Hand excavation and backfill where ordered by the Engineer	m3	10		
72	Excavate in all materials for conservancy tank backfill, compact and dispose of surplus	m3	807		
73	Hard rock excavation	m3	161		
	<u>Importing of Materials</u>				
74	From commercial sources G7 natural gravel compacted to 93% MOD AASHTO	m3	174		
	<u>Extra over item E.03 above for:</u>				
75	Hand excavation and backfill where ordered by the Engineer	m3	10		
	<u>CONSERVANCY TANK</u>				
	<u>CONCRETE (STRUCTURAL)</u>				
	<u>Smooth: Vertical formwork to:</u>				
76	Walls	m2	502		
	<u>Horizontal formwork to:</u>				
77	Floor	m2	12		
78	Roof	m2	128		
	<u>Box out holes/form voids:</u>				
	<u>Large, other than circular, of area over 0,1 m² and up to and including 0,5 m², and in the following depth ranges:</u>				
79	0 m up to and including 0,5m	No	1		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>SCHEDULED REINFORCEMENT ITEMS</u>				
	<u>High-tensile steel bars in the following:</u>				
80	10mm dia	kg	4		
81	12mm dia	kg	12		
	<u>SCHEDULED CONCRETE ITEMS</u>				
	<u>15MPa/19mm Concrete in:</u>				
82	Blinding under footings and bases	m3	6		
	<u>25 MPa/19 mm concrete in:</u>				
83	Surface bed	m3	35		
84	Walls	m3	54		
85	Roof Slab	m3	29		
86	250 Micron DPC	m2	340		
	<u>Unformed surface finishes - Wood-floated finishes to:</u>				
87	Surface beds	m2	12		
88	Pump station floor	m2	105		
	<u>Sealing of joints with waterstop:</u>				
89	Dura-joint PVC Water Stop or similar approved	m	30		
	<u>Miscellaneous work:</u>				
90	Tornado Rood Ventilation with installation	No	1		
	<u>MANHOLES</u>				
91	1000 mm nom dia heavy duty lockable lid complete with heavy duty lockable (with locking mechanism) and frame	No	2		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 2: External Plumbing & Drainage				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 3: ROAD WORKS, PAVINGS ETC.</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill			
	<u>ROADS-UPGRADE ON DRIVEWAYS, BUS STOP AND DROP-OFF</u>			
	<u>Site clearance</u>			
1	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	120	
	<u>Open face excavation in earth over sloping site and depositing excavated material in prescribed stock piles on site</u>			
2	Open face excavation	m3	120	
	<u>Extra over bulk excavation in earth for excavation in</u>			
3	Soft rock	m3	12	
4	Hard rock	m3	6	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	120	
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water	Item		
	Carried to Collection		R	
	Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc			
	CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Excavations, Filling, Etc</u>				
7	150mm sub-base layer of selected G7 gravel material to comply with maximum CBR 45, imported from commercial sources and compacted to 95% modified AASHTO density including 63mm stone compacted to 93% modified AASHTO density	m3	60		
8	Earth filling of G5 material supplied by the contractor compacted in 150mm layers compacted to 95% Mod AASHTO to density	m3	60		
	<u>Coarse river sand filling supplied by the contractor</u>				
9	Under floors etc	m3	6		
	<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>				
10	Approved soil herbicide weed killer at a rate of 50 gram/m ² under paving etc.	m2	120		
	<u>Compaction of surfaces</u>				
11	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 100% Mod AASHTO density	m2	120		
	<u>Prescribed density tests on filling</u>				
12	"Modified AASHTO Density" test	No	2		
	<u>30MPa/19mm unreinforced concrete</u>				
13	Ramps laid in panels including R16 dowel bars spaced at 0.3m c/c	m3	18		
14	Extra over concrete ramps for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	60		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Fabric reinforcement</u>				
15	Mesh reinforcement with mesh reference number 888 laid in concrete surface beds, slabs, etc with 300mm wide side and end laps (measured net)	m2	120		
	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>				
16	Ramps to falls	m2	120		
	<u>Existing Road Upgrades</u>				
17	Joining of newly surfaced road to existing tar road	m2	30		
	<u>Paving of 200 x 150 x 80mm thick precast concrete paving blocks with butt joints on 50mm thick river sand bed on well compacted imported fill with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling to engineer's detail</u>				
18	Paving laid to interlocking pattern to falls	m2	120		
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing, and pointing</u>				
19	Kerb (SABS 927 fig 3)180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling,etc	m	75		
20	Kerb (SABS 927 fig 3)180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint circular on plan not exceeding 4m radius formed with short lengths of straight kerb including excavation, backfilling, etc.	m	12		
	<u>THE FOLLOWING IN PAVING ON PARKING AND DRIVEWAYS</u>				
	<u>Soil insecticide</u>				
21	Under platforms, etc. including forming and poisoning shallow furrows, etc. filling in furrows and ramming	m2	900		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>One layer 250 micron green polyethylene waterproof sheeting complying with SABS 952 Type C in widest practicable widths with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements</u>				
22	Under floors, etc	m2	900		
	<u>Std grey "Concor Double Zig Zag" interlocking roadstone paving</u>				
23	80mm Standard "Concor Double Zig Zag" interlocking roadstone paving	m2	900		
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing, and pointing</u>				
24	Kerb (SABS 927 fig 3)180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling,etc	m	260		
25	Kerb (SABS 927 fig 3)Kerb (SABS 927 fig 3)180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling,etc high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint circular on plan not exceeding 4m radius formed with short lengths of straight kerb including excavation, backfilling, etc.	m	150		
	<u>Road marking paint on concrete</u>				
26	Line 100mm wide	m	50		
27	Line 300mm wide	m	810		
28	Numeral or letter 300mm high	No	90		
29	Traffic sign, numeral or letter 1,3m high	No	20		
30	Traffic arrow straight 3,7m long	No	12		
Carried to Collection				R	
Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc					
CONTRACT/TENDER NO: RFP 347/2022					

	<u>THE FOLLOWING IN ASSEMBLY AND COURTYARDS</u>				
	<u>Coarse river sand filling supplied by the contractor</u>				
31	Under floors etc	m3	111		
	<u>Compaction of surfaces</u>				
32	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 100% Mod AASHTO density	m2	2 210		
	<u>Prescribed density tests on filling</u>				
33	"Modified AASHTO Density" test	No	44		
	<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>				
34	Hyvar X or other approved soil herbicide weed killer at a rate of 50 gram/m ² under paving etc.	m2	2 210		
	<u>One layer approved 375 micron embossed black polyethylene damp proof course</u>				
35	Under paving, etc	m2	2 210		
	<u>'Infraset Masonique' or Similar Approved to Courtyards and Assembly - Paving of 200 x 150 x 60mm thick precast concrete paving blocks with butt joints on 50mm thick river sand bed on well compacted imported fill with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling to engineer's detail</u>				
36	Paving laid to Architect's pattern to falls	m2	2 210		
37	Paving laid to Architect's pattern to falls to ramps	m2	199		
38	170mm High brick-on-flat risers	m	92		
39	300mm Wide treads of brick-on-edge header course and brick-on-edge stretcher course	m	49		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

40	200mm Wide brick-on-flat header course edging	m	52		
41	200mm Wide brick-on-flat header course edging to falls	m	41		
	<u>Paver chess board</u>				
	<u>200 x 200 x 60mm thick precast concrete stepping stones on 50mm thick river sand bed on well compacted imported fill with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling to engineer's detail</u>				
42	Paving laid to herringbone pattern to falls	m2	48		
	<u>THE FOLLOWING IN WALKWAYS</u>				
	<u>Coarse river sand filling supplied by the contractor</u>				
43	Under floors etc	m3	30		
	<u>Compaction of surfaces</u>				
44	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 100% Mod AASHTO density	m2	602		
	<u>Prescribed density tests on filling</u>				
45	"Modified AASHTO Density" test	No	12		
	<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>				
46	Hyvar X or other approved soil herbicide weed killer at a rate of 50 gram/m ² under paving etc.	m2	602		
	<u>One layer approved 375 micron embossed black polyethylene damp proof course</u>				
47	In walls	m2	168		
48	Under paving, etc	m2	602		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>25MPa concrete</u>				
49	Strip footings	m3	171		
50	Bases	m3	69		
	<u>Movement joints, etc</u>				
51	10mm Bitumen impregnated fibre board built in vertically between concrete and brick walls	m	68		
	<u>Concrete tests</u>				
52	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	16		
	<u>High tensile steel reinforcement to structural concrete work</u>				
53	16mm Diameter bars	t	19.72		
	<u>Brickwork reinforcement</u>				
54	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 494		
	<u>Brickwork of NFX bricks (14 MPA nominal compressive strength) in class I mortar</u>				
55	One brick walls	m2	381		
	<u>30-40 MPa Travertine FBS clay face brick in stretcher bond, size 222 X 106 X 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u>				
56	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	229		
Carried to Collection				R	
Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc					
CONTRACT/TENDER NO: RFP 347/2022					

EMIS NUMBER: 600102163

-205-

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

65	<u>0.58mm IBR galvanised chromadek coated steel sheets double-interlocking concealed-fix roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Zinalume AZ150 coated steel G550 with a Clean Colorbond colour coated finish to one side with a Mountain Mist backing coat fixed to timber or steel purlins using aluminium KL65 clips and class 3 fasteners, in strict accordance with manufacturer's specifications at main building</u>	m2	413	R
<p>Carried to Collection</p> <p>Section 4: External Works (Provisional) Bill No. 3: Road Works, Paving etc</p>				

CONTRACT/TENDER NO: RFP 347/2022

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		198	
		199	
		200	
		201	
		202	
		203	
		204	
		205	
		206	
Carried Forward to Summary of Section No. 3			R
Section 4: External Works (Provisional)			
Bill No. 3: Road Works, Paving etc			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 4: SITE ENCLOSURE, RETAINING WALLS ETC (PROVISIONAL)</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill			
	<u>EXCAVATIONS, FILLING ETC</u>			
	<u>Excavation in earth or compacted filling not exceeding 2m deep</u>			
1	Trenches	m3	11	
	<u>Extra over excavations in earth for excavation in:</u>			
2	Soft rock	m3	1	
3	Hard rock	m3	1	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	2	
	<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1500mm deep	m2	40	
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water other than subterranean water	Item		
	Carried to Collection		R	
	Section 4: External Works (Provisional) Bill No. 4: Site Enclosure, Retaining Walls etc			
	CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<u>FILLING ETC</u>				
	<u>Earth filling obtained from the excavations (not compacted)</u>				
7	In prescribed stock piles on site	m3	2		
	<u>MASS CONCRETE WITH A COARSE AGGREGATE OF 19mm AND A MINIMUM COMPRESSIVE STRENGTH OF 15MPa AT 28 DAYS</u>				
8	In plinth under Pre cast fencing, size 300mm wide x 200mm deep, with wood floated top surface at ground level including any necessary excavation, formwork etc	m	680		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm Concrete in:</u>				
9	Strip footings	m3	5		
10	Holes	m3	61		
	<u>TEST BLOCKS</u>				
11	Making and testing 150 x 150 x 150mm concrete strength test cube and submit report to the Representative / Agent (only successful tests will be paid for)	No	1		
	<u>REINFORCEMENT</u>				
	<u>High tensile steel reinforcement to structural concrete work</u>				
12	25mm Diameter bars	t	0.23		
13	16mm Diameter bars	t	0.16		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 4: Site Enclosure, Retaining Walls etc				
	CONTRACT/TENDER NO: RFP 347/2022				

<u>FOUNDATIONS</u>				
<u>Brickwork of NFX bricks (14 MPA nominal compressive strength) in class I mortar</u>				
14	One brick walls	m2	11	
<u>SUPERSTRUCTURE</u>				
<u>Brickwork in NFP clay bricks (7 Mpa nominal compressive strength) in Class II mortar</u>				
15	One brick walls	m2	46	
<u>FACE BRICKWORK</u>				
<u>30-40 MPa Travertine FBS clay face brick in stretcher bond, size 222 X 106 X 73m m, manufactured in accordance with SANS 227:2007, bedded and jointed in class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u>				
16	One brick wall face brick pointed on both sides	m2	91	
17	Face brick-on-edge coping on top of one brick wall in cement mortar and pointing on top and both sides	m	19	
<u>BRICK REINFORCEMENT</u>				
18	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	179	
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer approved 375 micron embossed black polyethylene proof course</u>				
19	In walls	m2	6	
Carried to Collection				R
Section 4: External Works (Provisional) Bill No. 4: Site Enclosure, Retaining Walls etc				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>FENCING</u>				
	<u>Metal Fencing</u>				
20	Fencing 1800mm high Chain link galvanised diamond mesh, formed of three strands of 4mm thick galvanised mild steel straining wire mechanically strained between intermediate or gate and main posts at maximum 20m centres with one end passed through holes and securely tied to posts and other end securely tied to and including eye bolts bolted onto posts; each strand tied at maximum 4000mm centres to intermediate posts (elsewhere) with and including 2mm galvanised binding wire; the fence covered with and including 50mm mesh chain link netting of 2mm diameter galvanised mild steel wire strained and secured to top and bottom rails, posts and straining wires with and including 2mm galvanised binding wire	m	150		
21	Extra for scribed and welded T-intersection with post	No	12		
22	48,5mm Diameter x 3mm thick galvanised mild steel intermediate post 1800mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end and four times holed for and bolted to top of wall with and including M10 x 95mm expansion bolts	No	12		
23	48,5mm Diameter x 3mm thick galvanised mild steel gate post and top rail 4000mm girth with one mitred and welded intersection, one end welded to side of main post and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	8		
24	48,5mm Diameter x 3mm thick galvanised mild steel intermediate post 1800mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	8		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 4: Site Enclosure, Retaining Walls etc				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

25	76,2mm Diameter x 4mm thick galvanised mild steel main post 1800mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	7		
	<u>The following in galvanised mild steel gates and fixing in position complete</u>				
26	Single pedestrian gate size 1400 x 1800mm high formed of 50mm diameter x 2,8mm thick pipe framing all round complete with one 50mm diameter x 2,8mm thick pipe diagonal brace all neatly mitred and welded at intersections; the gate with two strands of 4mm thick galvanised mild steel straining wire mechanically strained between and securely fixed to gate styles and covered with and including 50mm mesh chain link netting of 3,15mm diameter galvanised mild steel wire securely fixed to straining wires and framing with and including 2mm galvanised binding wire, the one style fitted with and including two standard type pin and collar hinges bolted onto gate post (elsewhere) including drilling holes through gate post and other style with purpose made plate gate locking device and hand-hole opening formed of 10mm diameter bar 320mm girth bent to semi-circular shape and welded on as Details DT103, DT104 and DT125 on CD	No	2		
	<u>Approved anti-climb high security fencing including site clearance and preparation of ground</u>				
27	High density anti-climbing and anti-cut pressed mesh panel fencing 1,8m high, formed of 4mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with Marine Fusion Bond coating colour Medium Grey with aperture size 76,2mm x 12,7mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post 2,4m high including Locking Recess Mechanism at 3,382m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep with bitumen coated 500mm underdig.	m	680		
28	Manually operated vehicle sliding gate 3,5 x 1,8m high including running track and accessories	No	1		
Carried to Collection					R
Section 4: External Works (Provisional) Bill No. 4: Site Enclosure, Retaining Walls etc					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

29	Manually operated vehicle sliding gate Sliding gate size 6000 x 1800mm including running track and accessories	No	1		
	<u>Bolts and latches</u>				
30	200mm Galvanised heavy duty barrel bolt welded onto gate style	No	2		
	<u>Locks</u>				
31	63mm Brass five pin tumbler padlock with two keys	No	2		
	<u>Lettering</u>				
32	50mm Wide x 300mm high Helvetica Bold "upper case" lettering neatly cut out of 6mm mild steel plate each letter with three 10mm diameter x 275mm long mild steel fixing lugs with one end welded onto letter and other end threaded for and including nut and washer, each fixing lug fitted with 20mm diameter pipe alignment spacer including bolting on through one brick wall including mortice through brickwork	No	30		
	<u>Sundries</u>				
33	Locking chain 500mm long with 50 x 35 x 10mm diameter shackles with one shackle welded to gate frame or gate post	No	3		
Carried to Collection				R	
Section 4: External Works (Provisional)					
Bill No. 4: Site Enclosure, Retaining Walls etc					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Security spikes</u>				
34	Cadmium plated steel security spikes plugged to top of wall as per manufacturer's instructions	m	680		
35	Cadmium plated steel security spikes screwed to hollow section gate frame (elsewhere) with and including special unscrewable type self tapping screws in accordance with the manufacturer's instructions	m	11		
	<u>Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint</u>				
36	On grille gates (both sides measured on flat)	m2	48		
	<u>INTERLOCKING RETAINING WALL</u>				
	<u>Excavation not exceeding 2m deep</u>				
37	Trenches	m3	45		
	<u>25MPa/19mm reinforced concrete</u>				
38	Strip footings	m3	35		
	<u>High tensile steel reinforcement to structural concrete work</u>				
39	12mm Diameter bars	t	4.00		
	<u>Precast concrete interlocking planter units finished smooth on exposed surfaces</u>				
40	Retaining walls with stepped face and curves as required to suit slopes of 500 x 450 x 170mm high type L500 interlocking units laid with horizontal bed joints to 70 degree slope including backfilling with earth obtained from the excavations and filling the units with garden soil lightly tampered as the work proceeds	m2	150		
	<u>Subsoil drainage</u>				
41	19mm Crushed stone encasing to pipes	m3	1		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 4: Site Enclosure, Retaining Walls etc				
	CONTRACT/TENDER NO: RFP 347/2022				

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		208	
		209	
		210	
		211	
		212	
		213	
		214	
		215	
Carried Forward to Summary of Section No. 3			R
Section 4: External Works (Provisional)			
Bill No. 4: Site Enclosure, Retaining Walls etc			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 5: SOCCER FIELD, ETC.</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill			
	<u>SOCCER FIELD</u>			
	<u>EARTHWORKS</u>			
	<u>Filling, etc.</u>			
1	Imported top soil filling supplied by the Contractor, brought onto site and spread and levelled over sportsfield	m3	2 160	
2	150mm Layer of selected natural gravel material (G7), imported from commercial sources in filling under imported filling and compacted to 95% modified AASHTO density	m3	1 080	
	<u>Compaction</u>			
3	Compaction of ground surface under athletic tracks area including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% modified AASHTO density	m2	7 200	
	<u>Prescribed density tests on filling</u>			
4	"Modified AASHTO Density" test	No	65	
	<u>Soil insecticide</u>			
5	Under platforms, etc. including forming and poisoning shallow furrows, etc. filling in furrows and ramming	m2	7 200	
	Carried to Collection		R	
	Section 4: External Works (Provisional) Bill No. 5: Soccer Field (Provisional)			
	CONTRACT/TENDER NO: RFP 347/2022			

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u> <u>BILL NO. 6: COMBI COURTS, ETC. (PROVISIONAL)</u> NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill All excavations are measured as being in "earth" and/or filling compacted to 93% modified AASHTO density Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation 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 and for bulking <u>EARTHWORKS</u> <u>Excavate in earth not exceeding 2000mm deep below natural, elevated or reduced ground level for</u>			
1	Reducing levels under combi court area	m3	125	
2	Trenches	m3	10	
3	Holes	m3	9	
	Carried to Collection		R	
	Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)			
	CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Sundries</u>				
4	Extra over all excavations for carting away surplus material from excavations and/or from stockpiles on site to a dumping site to be located by the Contractor	m3	125		
5	Extra over excavations in earth for trenches and holes for excavations in soft rock	m3	10		
6	Extra over excavations in earth for trenches and holes for excavations in hard rock	m3	5		
7	Risk of collapse of sides of excavations for trenches and holes not exceeding 1500mm deep from natural, elevated or reduced ground level	m2	73		
8	Allow for keeping excavations free of all water other than subterranean water		Item		
	<u>Filling, etc.</u>				
9	Backfilling from the excavations to trenches and holes compacted to 93% modified AASHTO density	m3	56		
10	Selected granular material imported from commercial sources in filling around combi court and compacted to 95% modified AASHTO density	m3	125		
11	150mm Layer of selected natural gravel material (G6 to TRH14), imported from commercial sources in filling under combi court area and compacted to 95% modified AASHTO density	m3	125		
12	Compaction of ground surface under combi court area including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% modified AASHTO density	m2	834		
	<u>Tests</u>				
13	Tests to determine the degree of compaction, etc. of ground or filling	No	21		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Protection against termites</u>				
14	Poisoning surface of ground in bottoms of trenches, bases, etc.	m2	19		
15	Poisoning surface of ground or filling under floors, steps, etc. including raking out 75mm deep V-shaped channels against the walls, etc. treating with poison solution, backfilling and ramming	m2	834		
	<u>Concrete test cubes</u>				
16	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Representative/Agent. Only successful tests will be paid for	No	45		
	<u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days</u>				
17	In surface blinding under footings to walls cast against excavated surfaces, stepped and levelled	m3	1		
18	In pole and post bases cast against excavated surfaces	m3	9		
	<u>Mesh reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 20MPa at 28 days</u>				
19	In footings to walls cast against excavated surfaces, stepped and levelled	m3	125		
	<u>Mesh reinforcement</u>				
20	Mesh reinforcement (reference number 289) laid in wall footings, etc. with 300mm wide end laps (measured net)	m2	834		
Carried to Collection				R	
Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Precast Concrete</u>				
21	Precast concrete light duty garden kerb edging size 100mm wide at bottom tapering to 85mm wide at top x 150mm high with top edges rounded in 1000mm lengths with 10mm wide butt joints filled with (2:1) cement mortar and pointed with grooved half round joints and 10mm wide open butt joints at 5000mm centres including any necessary excavation, formwork, etc.	m	173		
	<u>Brickwork in burnt clay bricks in (5:1) cement mortar</u>				
22	Piers	m3	3		
23	One brick wall	m2	70		
	<u>Brick reinforcement</u>				
24	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	406		
	<u>30-40 MPa Travertine FBS clay face brick in stretcher bond, size 222 X 106 X 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u>				
25	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	50		
26	Extra over ordinary brickwork in piers for facing and pointing in stretcher bond	m2	20		
	<u>Damp-proofing to walls</u>				
27	375 Micron embossed black polyethylene damp-proof course to walls, cills, etc. (measured net)	m2	9		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Carpentry and Joinery</u>				
28	18mm Marine plywood with veneer suitable for paint in backboards bolted to steel framework (bolts and framework elsewhere)	m2	8		
	<u>Standard sports nets including all fixing ropes, attachments, etc.</u>				
29	Netball net including fixing in position complete to netball ring (elsewhere)	No	4		
30	Basketball net including fixing in position complete to basketball ring (elsewhere)	No	4		
	<u>Framed and welded hot-dipped double spelter galvanised mild steel poles, rings, etc. for sports equipment</u>				
	NOTE: The following are to be hot-dipped galvanised after fabrication of complete units				
31	Support for basketball net (elsewhere) formed of 16mm diameter rod ring to 450mm internal diameter with 60 x 10mm flat section L-shaped arm 300mm girth and with two 10mm diameter rod supporting arms each 500mm girth twice bent and welded onto ring and onto and including 450 x 350 x 6mm flat section backing plate four times holed for bolts (elsewhere) including bolting unit in position complete to steel framework	No	4		
32	Sleeve for removable pole formed of 102mm diameter x 2,5mm thick hollow section 700mm long with 140 x 140 x 10mm flat section flange with machine bevelled and scribed opening to suit sleeve diameter welded onto top end and with 250 x 250 x 6mm flat section base plate welded onto bottom end including setting up and embedding in position complete in concrete base (elsewhere)	No	2		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

33	Removable netball pole formed of 89mm diameter x 4mm thick hollow section 3900mm long with mushroom cap welded onto top, the pole with and including support for netball net (elsewhere) formed of 16mm diameter rod ring to 380mm internal diameter with 16mm square section L-shaped arm 250mm girth welded onto pole and onto ring including setting up unit in position complete in sleeve (elsewhere) and later removing and handing over to the Representative/Agent	No	4		
34	Basketball pole formed of 127mm diameter x 4mm thick hollow section 3900mm long with mushroom cap welded onto top end and 250 x 250 x 6mm flat section base plate welded onto bottom end, the pole with and including support for netball net (elsewhere) formed of 16mm diameter rod ring to 380mm internal diameter with 16mm square section L-shaped arm 250mm girth welded onto pole and onto ring; L-shaped arm 2913mm girth formed of 102mm diameter x 2,8mm thick hollow section with one end welded onto pole and other end welded closed with 6mm flat section; stay formed of 102mm diameter x 2,8mm thick hollow section 1602mm long extreme with ends scribed and welded onto pole and arm; 1200 x 450 x 6mm flat section mounting plate eight times holed for bolts (elsewhere) and with three 450 x 60 x 6mm overall flat section flanges welded onto mounting plate and scribed as necessary and welded onto L-shaped arm including setting up unit and embedding in position complete in concrete base (elsewhere)	No	4		
	<u>Framed and welded hot-dipped double spelter galvanised mild steel framing for two basketball backboards and fixing in position complete</u>				
35	Screw bolts with nuts and washers	kg	1		
36	25 x 25 x 1,8mm Hollow section framing holed for and bolted to 18mm thick timber backboard (elsewhere) with and including 6mm diameter galvanised gutter bolts at 400mm centres	m	18		
37	Extra for mitred and welded angle intersection	No	8		
38	Extra for welded T-intersection	No	16		
Carried to Collection				R	
Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

39	Hole through both 2,5mm thick walls of hollow section and 18mm thick timber backboard for 10mm diameter bolt (elsewhere)	No	16		
	<u>One coat (5:1) cement plaster finished to a smooth and even steel trowelled surface on external brickwork</u>				
40	On walls	m2	70		
41	On narrow widths	m2	5		
	<u>Sundries</u>				
42	150 x 150 x 100mm x 4,5kg Type 11A light duty cast iron hinged stopcock box embedded in concrete base (elsewhere)	No	6		
	<u>Prepare, stop and apply one coat alkali resistant pure acrylic filler coat and one full coat washable mat acrylic PVA paint</u>				
43	On external walls	m2	75		
44	50mm Wide lines on painted external walls	m	20		
	<u>Prepare and apply two full coats solvent based road and runway marking paint including silica sand sprinkled on before the paint has set to form slip-free surface</u>				
45	Basketball court marking lines 56mm wide	m	143		
46	Netball court marking lines 56mm wide	m	122		
47	Basketball court marking lines 56mm wide set out circular	m	73		
48	Netball court marking lines 56mm wide set out circular	m	34		
	<u>Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint</u>				
49	On general surfaces	m2	8		
Carried to Collection				R	
Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Prepare and apply one coat universal undercoat and two full coats high gloss enamel paint in brilliant colour</u>				
50	Backboard marking lines 50mm wide	m	16		
	<u>Bituminous premix combi court surfacing</u>				
51	Prime coat	m2	834		
52	25mm Thick continuously graded premixed bituminous surfacing	m2	834		
53	Final course bitumal slurry seal	m2	834		
	<u>Bolts and latches</u>				
54	200mm Galvanised heavy duty barrel bolt welded onto gate style	No	2		
	<u>Locks</u>				
55	63mm Brass five pin tumbler padlock with two keys	No	2		
	<u>Fencing</u>				
56	Fencing 1300mm high formed of 50mm mesh chain link netting of 2mm diameter galvanised mild steel wire strained and secured to top and bottom rails and posts at 3870mm centres (rails and posts elsewhere) with and including 2mm galvanised binding wire	m	400		
57	Fencing 3600mm high formed of two strands of 4mm thick galvanised mild steel straining wire mechanically strained between intermediate or gate and main posts at maximum 20m centres with one end passed through holes and securely tied to posts and other end securely tied to and including eyebolts bolted onto posts; each strand tied at maximum 4000mm centres to intermediate posts (elsewhere) with and including 2mm galvanised binding wire; the fence covered with and including 50mm mesh chain link netting of 2mm diameter galvanised mild steel wire strained and secured to top and bottom rails, posts and straining wires with and including 2mm galvanised binding wire	m	150		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

58	38,1mm Diameter x 2mm thick galvanised mild steel top or bottom rails	m	600		
59	Extra for scribed and welded T-intersection with post	No	160		
60	48,5mm Diameter x 3mm thick galvanised mild steel intermediate post 1400mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end and four times holed for and bolted to top of wall with and including M10 x 95mm expansion bolts	No	2		
61	48,5mm Diameter x 3mm thick galvanised mild steel gate post and top rail 4000mm girth with one mitred and welded intersection, one end welded to side of main post and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	2		
62	48,5mm Diameter x 3mm thick galvanised mild steel intermediate post 4600mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	30		
63	76,2mm Diameter x 4mm thick galvanised mild steel main post 4600mm long with mushroom cap welded onto top and with 100 x 100 x 5mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in concrete base (elsewhere)	No	8		
Carried to Collection				R	
Section 4: External Works (Provisional)					
Bill No. 6: Combi Courts (Provisional)					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<p><u>Galvanised mild steel gates</u></p> <p>64 Single pedestrian gate size 900 x 2100mm high formed of 50mm diameter x 2,8mm thick pipe framing all round complete with one 50mm diameter x 2,8mm thick pipe diagonal brace all neatly mitred and welded at intersections; the gate with two strands of 4mm thick galvanised mild steel straining wire mechanically strained between and securely fixed to gate styles and covered with and including 50mm mesh chain link netting of 3,15mm diameter galvanised mild steel wire securely fixed to straining wires and framing with and including 2mm galvanised binding wire, the one style fitted with and including two standard type pin and collar hinges bolted onto gate post (elsewhere) including drilling holes through gate post and other style prepared and drilled for barrel bolt (elsewhere) and hand-hole opening formed of 10mm diameter bar 320mm girth bent to semi-circular shape and welded on</p>	No	2	
	<p>Carried to Collection</p> <p>Section 4: External Works (Provisional) Bill No. 6: Combi Courts (Provisional)</p>		R	
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>			

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		220	
		221	
		222	
		223	
		224	
		225	
		226	
		227	
		228	
		229	
Carried Forward to Summary of Section No. 3			R
Section 4: External Works (Provisional)			
Bill No. 6: Combi Courts (Provisional)			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION 4</u> <u>BILL NO. 7: LANDSCAPING (PROVISIONAL)</u> NOTE: The contractor is advised to study the Model Preambles for Trades before pricing this bill NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill <u>LANDSCAPING</u> <u>Maintenance period</u> Attention is drawn to the maintenance period prescribed in the specification				
	<u>THE FOLLOWING IN LANDSCAPING -</u> <u>Landscape Development Plan - MLK-ARC-000P</u> <u>GRASSING</u> <u>Topsoil, compost, lime and fertilizer</u>				
1	Place topsoil fill material from site stockpile	m3	49		
	<u>Grassing, ground covers, etc</u>				
2	Instant lawn: Supply and plant Pennisetum Clandestinum - Kikuyu Grass	m2	492		
	<u>Fertilizing</u>				
3	Fertilizing grassed areas with 2.3.2 fertilizer spread at a rate of 0,1 kg/m2 and well irrigated after completion of planting	m2	492		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 7: Landscaping				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Maintenance</u>				
4	Maintain all aspects of the landscape works from the date of practical completion of the landscape works, for a period of 3 months including the supply of fertiliser and all other materials required		Item		
	<u>PLANTING</u>				
	<u>Acacia Robusta Trees: Supply and Planting</u>				
5	100 litre trees: Splendid Thorn	No	12		
	<u>Dombeya Rotundifolia Trees: Supply and Planting</u>				
6	100 litre trees: Wild Pear	No	12		
	<u>VEGETABLE GARDEN</u>				
	<u>Topsoil, compost, lime and fertilizer</u>				
7	Place topsoil fill material from site stockpile	m3	100		
	<u>Fertilizing</u>				
8	Fertilizing grassed areas with 2.3.2 fertilizer spread at a rate of 0,1 kg/m2 and well irrigated after completion of planting	m2	100		
	<u>THE FOLLOWING IN COURTYARD CIRCULAR BENCHES - OUTSIDE LEARNING SPACE</u>				
	<u>Two stepped brickwork bench circular on plan complete with planter as per Architect's Plan, MLK-ARC-001P</u>				
	<u>Excavation in earth or compacted filling not exceeding 2m deep</u>				
9	Trenches	m3	15		
	<u>Extra over all excavations for carting away</u>				
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	15		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 7: Landscaping				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>				
11	Hyvar X or other approved soil herbicide weed killer at a rate of 50 gram/m ² under paving etc.	m2	90		
	<u>25 MPa concrete</u>				
12	Strip footings	m3	8		
	<u>High tensile steel reinforcement to structural concrete work</u>				
13	16mm Diameter bars	t	1.65		
	<u>Brickwork in NFX clay bricks (14 Mpa nominal compressive strength) in Class 2 mortar</u>				
14	One brick walls circular on plan	m2	30		
15	One and half brick walls circular on plan	m2	30		
	<u>Brickwork reinforcement</u>				
16	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	176		
	<u>30-40 MPa Travertine FBS clay face brick in stretcher bond, size 222 X 106 X 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u>				
17	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	60		
18	Extra over ordinary brickwork for bullnose brick on edge	m	60		
	<u>Topsoil, compost, lime and fertilizer</u>				
19	Place topsoil fill material from site stockpile	m3	154		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 7: Landscaping				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>CONCRETE BENCHES</u>				
20	450mm Wide x 510mm High benches including building into position on brick wall with timber on top	No	8		
	<u>THE FOLLOWING IN SEATING AREA</u>				
	<u>Two stepped brickwork bench complete with planter as per Architect's Plan, MLK-ARC-001P</u>				
	<u>Excavation in earth or compacted filling not exceeding 2m deep</u>				
21	Trenches	m3	30		
	<u>Extra over all excavations for carting away</u>				
22	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	30		
	<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>				
23	Hyvar X or other approved soil herbicide weed killer at a rate of 50 gram/m ² under paving etc.	m2	180		
	<u>25 MPa concrete</u>				
24	Strip footings	m3	15		
	<u>High tensile steel reinforcement to structural concrete work</u>				
25	16mm Diameter bars	t	3.30		
	<u>Brickwork in NFX clay bricks (14 Mpa nominal compressive strength) in Class 2 mortar</u>				
26	One brick walls	m2	60		
27	One and half brick walls	m2	60		
	<u>Brickwork reinforcement</u>				
28	150mm Wide reinforcement built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	353		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 7: Landscaping				
	CONTRACT/TENDER NO: RFP 347/2022				

	<u>30-40 MPa Travertine FBS clay face brick in stretcher bond, size 222 X 106 X 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2.</u>				
29	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	120		
30	Extra over ordinary brickwork for bullnose brick on edge	m	120		
	<u>THE FOLLOWING IN GRADE-R PLAY GROUND</u>				
	<u>Timber Jungle Gym</u>				
31	Combination Jungle Gym with timber basic structure with Durban Poles and timber roof. The Jungle gym to comprise of monkey bars, pull-u ladders, seater swings, rumble bridge, slide, timber, rope and tyre ladder, combo net, tyre tower as per detail 923-S2-103-BB-wd.022	No	1		
	<u>Round-A-Bout</u>				
32	2400mm Base x 1000mm high with 8 segments play area, Aluminium tread plate and robust frame, painted with primary colours as per detail 923-S2-103-BB-wd.022	No	1		
	<u>Supply and install Child Friendly Artificial Grass Lock</u>				
33	500 x 500 x 30mm thick Interlocking Artificial Grass to allow for drainage under the grass laid on compacted on granular base to engineers detail.	m2	300		
	<u>Supply and Install Rubber Mats</u>				
34	Playground Rubber Mat tiles with impact absorbing and slip-resistance surface with porous nature to allow water to flow and drainage under the mat, Rubber mat to be laid on paved area. Colour to Architect's approval.	m2	90		
	Carried to Collection			R	
	Section 4: External Works (Provisional) Bill No. 7: Landscaping				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>'Infraset Masonique' or Similar Approved to Playing Ground</u>				
	<u>Paving of 200 x 150 x 60mm thick precast concrete paving blocks with butt joints on 50mm thick river sand bed on well compacted imported fill with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling to engineer's detail</u>				
35	Paving laid to herringbone pattern to falls	m2	300		
	<u>One layer 250 micron green polyethylene waterproof sheeting complying with SABS 952 Type C in widest practicable widths with all joints lapped and sealed with pressure sensitive tape all in strict accordance with the manufacturer's requirements</u>				
36	Under paving	m2	300		
	<u>Coarse river sand filling supplied by the contractor</u>				
37	Under paving etc	m3	12		
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing, and pointing</u>				
38	Kerb (SABS 927 fig 3)180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling,etc	m	150		
39	Kerb (SABS 927 fig 3)180 x 280mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint circular on plan not exceeding 4m radius formed with short lengths of straight kerb including excavation, backfilling, etc.	m	18		
Carried to Collection					R
Section 4: External Works (Provisional) Bill No. 7: Landscaping					
CONTRACT/TENDER NO: RFP 347/2022					

EMIS NUMBER: 600102163

-237-

EMIS NUMBER: 600102163

-238-

EMIS NUMBER: 600102163

-239-

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u> <u>BILL NO. 1: ELECTRICAL INFRASTRUCTURE</u> NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill NOTE: The contractor is advised to study the Electrical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Project Manager. <u>LUMINAIRES</u> <u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. (all light fittings samples shall be approved by the electrical engineer prior to placing orders).</u>			
1	Type P1 - Complete IP65 rated 55w LED post top luminaire with a 3.5m fibre glass pole for the parking area, as specified.	No	8	
	<u>SUPPLY AND INSTALL DISTRIBUTION KIOSK</u> <u>Supply, install and connect a distribution kiosk complete with busbars, terminals back plate, doors, concrete plinth, single earth spike, cable plate, etc: (Kiosk to be suitable for and with all specified equipment)</u>			
2	Supply and install Main Distribution Kiosk Without Equipment	No	1	
3	Supply and install Distribution Kiosk 1 Without Equipment	No	1	
	Carried to Collection		R	
	Section 5: Electrical & Electronic Works Bill No. 1: Electrical Infrastructure			
	CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

4	Supply and install Distribution Kiosk 2 Without Equipment	No	1		
	<u>Supply, install and connect distribution board equipment as indicated in the single line diagram for Main Kiosk .</u>				
5	Complete 300A 4-pole (50kA) Main Circuit Breaker, (MCCB) as specified	No	2		
6	Complete 250A 4-pole MC Main Isolator, as specified	No	2		
7	Complete 100A 4-pole (10kA) Main Circuit Breaker, as specified	No	2		
8	Complete 80A 4-pole (10kA) Main Circuit Breaker, as specified	No	2		
9	Complete 250A 4-pole (37kA) Feeder Breaker, (MCCB)as specified (Kiosk 1)	No	2		
10	Complete 60A 2-pole (10kA) Main Circuit Breaker, as specified	No	2		
11	Complete 100A 4-pole (10kA) Feeder Breaker, as specified (Kiosk 2)	No	3		
12	Complete 80A 4-pole (10kA) Feeder Breaker, as specified	No	2		
13	Complete 40A 2-pole (6kA) Feeder Breaker, as specified	No	14		
14	Complete 30A 2-pole (10kA) Feeder Breaker, as specified	No	1		
15	Complete set of Surge Arrestor	No	3		
	<u>PVC Sleeve</u>				
16	110mmØ PVC sleeve in a trench to DBias illustrated on the site layout	m	300		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 1: Electrical Infrastructure					
CONTRACT/TENDER NO: RFP 347/2022					

	<u>FEEDER CABLES</u>				
	<u>Supply, install and connect 660/1000 Volt multi-core PVC insulated copper, armoured cables in accordance with SANS 10142-1&2:2017</u>				
17	Complete 70mm ² x 4 core ECC cable in ducts, trenches or on cable tray, as specified	m	150		
18	Complete 70mm ² x 4 core electrical Cable ends	No	8		
19	Complete 50mm ² earth continuity cable in ducts, trenches or on cable tray, as specified	m	150		
20	Complete 50mm ² earth continuity cable ends	No	8		
21	Complete 50mm ² x 4 core ECC cable in ducts, trenches or on cable tray, as specified	m	300		
22	Complete 50mm ² x 4 core electrical Cable ends	No	16		
23	Complete 35mm ² earth continuity cable in ducts, trenches or on cable tray, as specified	m	150		
24	Complete 35mm ² earth continuity cable ends	No	16		
25	Complete 35mm ² x 4 core ECC cable in ducts, trenches or on cable tray, as specified	m	180		
26	Complete 35mm ² x 4 core electrical Cable ends	No	4		
27	Complete 25mm ² earth continuity cable in ducts, trenches or on cable tray, as specified	m	180		
28	Complete 25mm ² earth continuity cable ends	No	4		
	<u>TRENCHING</u>				
	<u>Trenching through pickabel ground, backfilling with 150mm of clean sand, danger tape and then backfilling and compaction</u>				
29	Minimum 500mm deep trench per lineal metre, in accordance with SANS 10142-1:2017	m	500		
30	Install 600 x 600 x 1000mm manhole	No	4		
	Carried to Collection			R	
	Section 5: Electrical & Electronic Works Bill No. 1: Electrical Infrastructure				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

31	Install 1000 x 1000 x 1000mm manhole	No	1		
	<u>PROVISIONAL SUM</u>				
	<u>Provisional sum amounts have been allowed for the following Installations and Equipment, for expenditure as directed by the Engineer .</u>				
32	Extension of MV line to point of Upgrade of Utility Connection Point for Installation of 150kVA / 400V Supply Transformer		Item		750 000.00
33	Allow for profit		Item		
34	Allow for attendance		Item		
	<u>RELOCATION WORKS</u>				
35	Relocation of Existing Complete 10mm ² Aerial Bundled Cable from Construction Site to Proposed Location - as specified	m	150		
36	Disconnection of Existing MV Line from Existing 50kVA Transformer For Relocation		Item		
37	Relocation of Existing 50kVA Transformer to new location		Item		
38	Relocation of Existing 12 No. 9m Poles to New Proposed LV Route		Item		
39	Removal of Existing 9m Steel Poles (Temp LV Route) & Existing 50kVA Transformer to Make Way for Extension of New MV Line For Connecting to New 150kVA Transformer		Item		
	Carried to Collection			R	
	Section 5: Electrical & Electronic Works Bill No. 1: Electrical Infrastructure				
	CONTRACT/TENDER NO: RFP 347/2022				

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		240	
		241	
		242	
		243	
Carried Forward to Summary of Section No. 4			R
Section 5: Electrical & Electronic Works			
Bill No. 1: Electrical Infrastructure			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<u>SECTION 5</u>			
	<u>BILL NO. 2: ELECTRICAL INSTALLATION</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill			
	NOTE: The contractor is advised to study the Electrical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Project Manager.			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>The following are to be undertaken relevant Specialist</u>			
	<u>POWER & LIGHTING INSTALLATION</u>			
	<u>Supply and install, complete with box, panel, lockable doors etc; a Flush mounted distribution board including the termination of all conductors etc:</u>			
1	Admin block flush mount DB Board without equipment , as specified	No	1	
2	Nutrition Centre flush mount DB Board without equipment , as specified	No	1	
3	Grade R block flush mount DB Board without equipment , as specified	No	1	
4	Change Room flush mount DB Board without equipment , as specified	No	1	
	Carried to Collection		R	
	Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation			
	CONTRACT/TENDER NO: RFP 347/2022			

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

5	Two Classroom flush mount DB Board without equipment , as specified	No	1		
6	Multipurpose Classroom flush mount DB Board without equipment , as specified	No	1		
7	Media Block flush mount DB Board without equipment , as specified	No	1		
8	3 Classroom flush mount DB Board without equipment , as specified	No	2		
9	3 Classroom + Ablution flush mount DB Board without equipment , as specified	No	2		
10	Science Lab flush mount DB Board without equipment , as specified	No	1		
	<u>Supply, install and connect distribution board equipment as indicated in the single line diagram for each distribution box</u>				
11	Complete 100A 4-pole (10kA) Main Circuit Breaker, as specified	No	1		
12	Complete 80A 4-pole (6kA) Main Circuit Breaker, as specified	No	1		
13	Complete 60A 2-pole (6kA) Main Circuit Breaker, as specified	No	1		
14	Complete 40A 4-pole (6kA) Main Circuit Breaker, as specified	No	1		
15	Complete 40A 2-pole (6kA) Main Circuit Breaker, as specified	No	19		
16	Complete 63A 2-pole Earth leakage isolator, as specified	No	50		
17	Complete 10A 1-pole (6kA) Circuit Breaker, as specified	No	91		
18	Complete 15A 1-pole 5kA Circuit Breaker, as specified	No	4		
19	Complete 20A 1-pole 6kA Circuit Breaker, as specified	No	112		
	Carried to Collection			R	
	Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

20	Complete 20A 2-pole (6kA Main Circuit Breaker, as specified)	No	1		
21	Complete 30A 1-pole 5kA Circuit Breaker, as specified	No	32		
22	Complete 30A 3-pole 5kA Circuit Breaker, as specified	No	14		
23	Complete set of Surge Arrestor	No	34		
24	Complete Spare openings filled with 1-pole dummy breakers, as specified	No	53		
25	Complete 63A 3-pole Earth leakage isolator, as specified	No	3		
<u>FEEDER CABLES</u>					
<u>Supply, install and connect 660/1000 Volt multi-core PVC insulated copper, armoured cables in accordance with SANS 10142-1&2:2017</u>					
26	Complete 35mm ² x 4 core - in ducts, trenches or on cable tray, as specified	m	60		
27	Complete 35mm ² x 4 core electrical Cable ends	No	4		
28	Complete 25mm ² x 4 core - in ducts, trenches or on cable tray, as specified	m	95		
29	Complete 25mm ² x 4 core electrical Cable ends	No	8		
30	Complete 16mm ² x 4 core - in ducts, trenches or on cable tray, as specified	m	275		
31	Complete 16mm ² x 4 core electrical Cable ends	No	12		
32	Complete 10mm ² earth continuity - in ducts, trenches or on cable tray, as specified	m	840		
33	Complete 10mm ² earth continuity Cable ends	No	32		
34	Complete 6mm ² x 2 core - in ducts, trenches or on cable tray, as specified	m	720		
35	Complete 6mm ² x 2 core electrical Cable ends	No	28		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

36	Complete 4mm ² earth continuity - in ducts, trenches or on cable tray, as specified	m	120		
37	Complete 4mm ² earth continuity Cable ends	No	4		
38	<u>Change Rooms</u> - Inspection, condition assessment ,fault rectification and testing of Insulation of supply Relocation of Existing Complete 10mm ² Aerial Bundled Cable from Construction Site to Proposed Location - as specified			Item	
39	<u>Media</u> - Inspection, condition assessment ,fault rectification and testing of Insulation of supply Relocation of Existing Complete 10mm ² Aerial Bundled Cable from Construction Site to Proposed Location - as specified			Item	
<u>TRENCHING</u>					
<u>Trenching through pickabel ground, backfilling with 150mm of clean sand, danger tape and then backfilling and compaction</u>					
40	Minimum 500mm deep trench per lineal metre,in accordance with SANS 10142-1:2017	m	1 045		
<u>CONDUCTORS</u>					
<u>Supply and install 600/1000Volt PVC insulated stranded copper conductors drawn into conduits, cable trays, trunking and powerskirtings but not limited to:-</u>					
41	Complete 4mm ² conductor with BCE, as specified	m	5 110		
42	Complete 2.5mm ² conductor with BCE, as specified	m	5 900		
43	Complete 6mm ² conductor with BCE, as specified	m	1 850		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

	<u>CONDUIT</u>				
	<u>Supply and install conduit including cutting, threading, bending, reaming, short lengths, 1-/2-/3-4-way boxes, bushes, locknuts, couplings saddles, screws etc.</u>				
	<u>Installed on surface in ceiling space:</u>				
44	20mm PVC	m	5 270		
45	25mm PVC	m	3 080		
	<u>Chased into brickwork:</u>				
46	20mm PVC	m	2 360		
47	25mm PVC	m	1 750		
	<u>Cast into concrete:</u>				
48	20mm PVC	m	1 960		
49	25mm PVC	m	2 825		
	<u>Terminations onto conduit boxes or DB's</u>				
50	20mm PVC	No	359		
51	25mm PVC	No	335		
	<u>Supply and installation of 60mm Dia round 1-4 way ceiling boxes including connection of conduit and extension rings</u>				
52	20mm PVC	m	255		
53	25mm PVC	m	224		
	<u>PVC Sleeve</u>				
54	110mmØ PVC sleeve in a trench to DB as illustrated on the site layout	m	1 045		
	Carried to Collection			R	
	Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Supply and installation of galvanised pressed boxes flush in wall, including bushes, locknuts and box extensions where required:</u>				
55	Supply and install 100 x 100 x 50mm galvanized wall box	No	213		
56	Supply and Install 100 x 50 x 50mm galvanized wall box	No	162		
	<u>LUMINAIRES</u>				
	<u>Supply, install and connect luminaires complete with lamps, fixings, brass screws, washers, etc. (all light fittings samples shall be approved by the electrical engineer prior to placing orders).</u>				
57	Type F1: Complete Ceiling mount 1200mm 1 LED lamp 1 x 28W open channel fluorescent luminaire ,similar or equal and approved, as specified	No	12		
58	Type Type F2: Complete Ceiling mount 1200mm 2 LED lamp 2 x 28W open channel fluorescent luminaire, similar or equal and approved, as specified: Complete Ceiling mount 1200mm 2 LED lamp 2 x 28W open channel fluorescent luminaire, similar or equal and approved, as specified	No	172		
59	Type P2: Complete Ceiling recessed 600mm x 600mm decorative 1 x 36W LED Panel lamp ,similar or equal and approved, as specified	No	51		
60	Type W1: Complete black rectangular IP66 rated robustly constructed, weather proof, hail proof, corrosion proof and vandal resistant wide beam wall mounted decorative 1 x 10W LED luminaire with an aluminium die cast (LM6) body, similar or equal and approved, as specified	No	116		
61	Type D1: Complete Recessed mounted rated interior Downlight complete with 1 x 12W LED lamp, control gear, similar or equal and approved, as specified.	No	24		
62	Type B1: Complete ceiling mounted IP65 rated interior bulkhead complete with 1 x 10W LED lamp, control gear, similar or equal and approved, as specified.	No	88		
	Carried to Collection			R	
	Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

63	Complete photo electrical switches complete on a wall round outlet box.:	No	20		
	<u>LIGHT SWITCHES</u>				
	<u>Supply, fitting and electrical connection of a flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u>				
64	Complete 16A 1-lever / 1-way on 100 x 50 x 50mm, as specified	No	106		
65	Complete 16A 1-lever / 2-way on 100 x 50 x 50mm, as specified	No	26		
66	Complete 16A 2-lever / 1-way on 100 x 50 x 50mm, as specified	No	12		
67	Complete weather proof and vandal resistant 100 x 100 x 50mm junction box, as specified	No	10		
	<u>POWER SOCKET OUTLETS</u>				
	<u>Supply, fitting and electrical connection of flush or surface mounted switched or un-switched socket in either 100 x 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.</u>				
68	Complete 16A single Euro switched socket on 100 x 100 x 50mm outlet	No	100		
69	Complete 16A double Euro switched socket on 100 x 100 x 50mm outlet	No	13		
70	Complete 16A Euro switched socket outlet with USB Slot on 100 x 100 x 50mm outlet	No	55		
71	Complete 5A unswitched socket outlet for decorative fluorescent, as specified	No	83		
72	Complete weather proof and vandal resistant 100 x 100 x 50mm junction box, as specified	No	47		
	Carried to Collection			R	
	Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

<u>ISOLATORS</u>					
<u>Supply, fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.</u>					
73	Complete 10A 1-pole flush Isolator with indicator light and cord grip, as specified	No	4		
74	Complete 20A 1-pole flush Isolator with indicator light and cord grip, as specified	No	23		
75	Complete 20A 2-pole flush Isolator with indicator light and cord grip, as specified	No	10		
76	Complete 30A 2 pole flush Isolator with indicator light and cord grip, as specified	No	33		
77	Complete 30A 3-pole flush Isolator with indicator light and cord grip, as specified	No	21		
78	Complete 30A 4- pole flush Isolator with indicator light and cord grip, as specified	No	3		
<u>POWER SKIRTING INSTALLATION</u>					
<u>Supply, deliver and install 2 compartment power skirting including cutting, ends, covers, elbows, risers, screws etc, as specified</u>					
79	2 compartment Power skirting mounted against the walls.	m	300		
80	16A 3-pin switched Euro socket outlets mounted in power skirting, including cover plates	No	76		
81	16A 3-pin red dedicated with Euro USB Slot switched socket outlets mounted in power skirting, including cover plates	No	16		
82	16A 3-pin red dedicated switched socket outlets mounted in power skirting, including cover plates	No	56		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

83	Complete RJ45 data socket outlet with cradles and cover plates, as specified	No	85		
<u>CABLE TRAY INSTALLATION</u>					
<u>Supply, delivery and installation of heavy duty galvanized wiring trunking complete with hangers, threaded rods and lock nuts, as specified</u>					
84	Complete 127mm wiring trunking as specified.	m	180		
85	Complete 127mm wide galvanized T-Junction, as specified.	No	35		
86	Complete 127mm wide galvanized 90 degree bend, as specified.	No	30		
87	Complete 127mm wide galvanized 4 way junction, as specified.	No	40		
<u>APPLIANCE CONNECTION</u>					
<u>Electrical connection of appliances, from the Isolator outlet to the equipment connection terminals. (Provisions for Flexible conduit and wiring or cables required, to be included). Specified Appliances supplied and installed by others.</u>					
88	Air conditioning units	No	17		
<u>LIGHTNING PROTECTION INSTALLATION</u>					
<u>Supply, install and test a complete lightning protection installation, including aluminium and copper conductors, test joints, PVC conduit, earth electrodes for the complete buildings by specialised contractor but not limited to: -</u>					
89	New Admin block, as specified. Refer to lightning protection layout	No	1		
90	<u>New Nutrition Centre</u> , as specified refer to lightning protection layout	No	1		
91	<u>New Grade R block</u> , as specified refer to lightning protection layout	No	1		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

92	<u>New Change Rooms block</u> , as specified refer to lightning protection layout	No	1		
93	<u>New Two Classroom block</u> , as specified refer to lightning protection layout	No	1		
94	<u>Multipurpose Classroom</u> , as specified refer to lightning protection layout	No	1		
95	<u>Media Centre</u> , as specified refer to lightning protection layout	No	1		
96	<u>3 classroom Block</u> , as specified refer to lightning protection layout	No	2		
97	<u>3 Classroom + Ablution Block</u> , as specified refer to lightning protection layout	No	2		
98	<u>Science Lab</u> , as specified refer to lightning protection layout	No	1		
<u>EARTHING AND CONDUCTING</u>					
99	<u>New Admin block</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
100	<u>New Nutrition Centre</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
101	<u>New Grade R block</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

102	<u>New Change Rooms Block</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
103	<u>New Two Classroom Block</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
104	<u>Multipurpose Classroom</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
105	<u>Media Centre</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
106	<u>3 classroom Block</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	2		
107	<u>3 Classroom + Ablution Block</u> - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	2		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

108	Science Lab - Earthing of all buildings to comply with the latest SANS 10142 1&2:2017, as revised Code of Practice, as revised for The Wiring of Premises as amended and as specified. Bonding of all hot, cold and waste pipes complete with 12,5mm x 1mm thick solid or perforated copper tape including terminations.	No	1		
	TESTING AND COMMISSIONING				
109	New Admin block - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
110	New Nutrition Centre - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
111	New Grade R block - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
112	New Change Rooms Block - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
113	New Two Classroom Block - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
114	Multipurpose Classroom - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

115	Media Centre - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
116	3 classroom Block - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	2		
117	3 Classroom + Ablution Block - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	2		
118	Science Lab - Inspections, testing and handing over of the complete installation in the presence of the Engineer and certify the results on the Certificate of compliance by an accredited person in accordance with SANS 10142-1:2017.:	No	1		
Carried to Collection				R	
Section 5: Electrical & Electronic Works Bill No. 2: Electrical Installation					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		245	
		246	
		247	
		248	
		249	
		250	
		251	
		252	
		253	
		254	
		255	
		256	
		257	
Carried Forward to Summary of Section No. 4			R
Section 5: Electrical & Electronic Works			
Bill No. 2: Electrical Installation			
CONTRACT/TENDER NO: RFP 347/2022			

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 6</u></p> <p><u>BILL NO. 1: AIR CONDITIONING AND VENTILATION INSTALLATION</u></p> <p>NOTE: The contractor is advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p>NOTE: The contractor is advised to study the Mechanical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Project Manager.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u></p> <p>The Contractor is referred to relevant annexure for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Trade names</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>ACCEPTABLE TRADE NAMES:</u> Midea, Samsung, LG, Carrier, McQuay, Panasonic, Trane, Daikin, York</p>				
	<p>Carried to Collection</p>			R	
	<p>Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation</p>				
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

Ductwork

Where transformations or reducers occur the larger size ductwork has been measured through the fitting. Descriptions of ductwork shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification

Dampers

Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts

Air Diffusion

Descriptions of air terminals, grilles, louvres and the like shall be deemed to include necks, frames, supports and flexible connections

Fans

Descriptions of fan assemblies shall be deemed to include supports from the structure, flexible or other connections to ductwork, vibration isolation mountings and airtight inspection doors

Sound attenuators

Descriptions of sound attenuators shall be deemed to include flanged or flexible connections to ductwork and supports from the structure

Fan coil units, fan air terminals and fan heaters

Descriptions of fan coil units, fan air terminals and fan heaters shall be deemed to include connection points for water, air and electrical, air grilles, dust trays, condensate trays and vibration isolation mountings. Flexible ducting, flexible hose and connecting cables for connecting these units to each other or to water piping and electrical supply are separately measured

Carried to Collection

R

Section 6: Mechanical & Firefighting Works
 Bill No. 1: Air Conditioning and Ventilation

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

<u>AIR CONDITIONING</u>					
NOTE: <u>Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings and data sheets.</u>					
<u>Supply and Delivery of split air conditioning units. Including trunking, piping between outdoor and indoor portions of unit, mounting brackets and supports, condensate drain pumps, touch controllers and all necessary accessories.</u>					
<u>BLOCK B - Admin Offices</u>					
1	Type: Cassette Unit Cooling Capacity: 6.7 KW Inverter Type Controller: Wireless Remote	No	1		
<u>BLOCK B - Principal Office</u>					
2	Type: Mid Wall Unit Cooling Capacity: 4.7 KW Inverter Type Controller: Wireless Remote	No	1		
<u>BLOCK H - Media Centre</u>					
3	Type: Cassette Unit Cooling Capacity: 12.3 KW Inverter Type Controller: Wireless Remote	No	2		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

<u>REFRIGERANT PIPING</u>					
<u>Refrigerant pipes complete with thermal insulation, other fittings and fixtures, brackets, pressure tested and fully charged up with refrigerant in accordance with data sheets and specifications for the above.</u>					
4	Additional piping between Indoor and Outdoor unit including pipe ancillaries, wire mesh tray, pipe supports and installation ancillaries.	m	80		
5	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.	No	4		
<u>VENTILATION</u>					
<u>Supply and delivery to site of the following items, including trunking, mounting brackets and supports, touch controllers and all necessary accessories.:</u>					
<u>BLOCK B - Admin Offices</u>					
6	Wall mounted fresh air fan, with a capacity of 50 l/s, or similar approved, complete with wall mounted control switch	No	1		
7	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.	No	1		
<u>BLOCK B - Principal Office</u>					
8	Wall mounted fresh air fan, with a capacity of 35 l/s, or similar approved, complete with wall mounted control switch	No	1		
9	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.	No	1		
<u>BLOCK B - Strong Room</u>					
10	Wall mounted fresh air fan, with a capacity of 115 l/s, or similar approved, complete with wall mounted control switch	No	1		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

11	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.	No	1		
	<u>BLOCK H - Media Centre</u>				
12	Wall mounted fresh air fan, with a capacity of 50 l/s, or similar approved, complete with wall mounted control switch	No	3		
13	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.	No	3		
	<u>EXTRACTION</u>				
	<u>Supply and delivery to site of the following items, including trunking, mounting brackets and supports, touch controllers and all necessary accessories.:</u>				
	<u>BLOCK B - Kitchenette</u>				
14	Wall mounted extract fan, with a capacity of 170 l/s, or similar approved, complete with wall mounted control switch	No	1		
15	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.	No	1		
	<u>BLOCK I - Science Lab</u>				
16	FANS				
	Fan Type: In-line Tube Fan Process Data: 200 l/s @ 150 Pa Mounting: Anti-Vibration Mounts	No	1		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

17	<p>SOUND ATTENUATORS</p> <p>Diameter to suit 200 l/s @ 150 Pa fan, with flexible collars Length: 500L POD type SOUND ATTENUATORS</p> <p>Diameter to suit 200 l/s @ 150 Pa fan, with flexible collars Length: 500L POD type NC rating: 35 rating: 35</p>	No	2		
18	<p>WEATHER LOUVRE</p> <p>Size: 500 x 200 mm Finish: Epoxy Powder Coated Hinged with Washable pleated Filter</p>	No	1		
19	<p>DUCTING</p> <p>Low Pressure Galvanised ducting including all transformation pieces (including all brackets and supports) to SANS 1238, "S" slip & Drive Slip, 0,6mm Class 1</p>	m	10		
20	<p>DUCTING - SPIRAL TYPE</p> <p>Low Pressure Galvanised ducting including all transformation pieces (including all brackets and supports) to SANS 1238, 0,4mm Diameter 250</p>	m	2		
21	<p>FLEXIBLE DUCTING</p> <p>Supply and install wire reinforced aluminium flexible ducting complete with clamps; duct sealant and fixings. 1 500 long Diameter: 250 mm</p>	No	1		
22	<p>Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.</p>	No	1		
<p style="text-align: right;">Carried to Collection</p>					R
<p>Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation</p>					
<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>BLOCK I - Chemical Store</u>					
23	Spark Proof Wall mounted extract fan, with a capacity of 150 l/s, or similar approved, complete with wall mounted control switch	No	1			
24	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements.	No	1			
	<u>BLOCK J - Kitchen</u>					
25	FANS					
	Fan Type: In-line Tube Fan Process Data: 1500 l/s @ 250 Pa Mounting: Anti-Vibration Mounts	No	1			
26	SOUND ATTENUATORS					
	Diameter to suit 1500 l/s @ 200 Pa fan, with flexible collars Length: 500L POD type SOUND ATTENUATORS					
	Diameter to suit 200 l/s @ 150 Pa fan, with flexible collars Length: 500L POD type NC rating: 35 rating: 35	No	2			
27	WEATHER COWL					
	Size: Diameter 500 mm Finish: Epoxy Powder Coated Hinged with Washable pleated Filter	No	1			
28	DUCTING					
	Low Pressure Stainless Steel ducting including all transformation pieces (including all brackets and supports) to SANS 1238, "S" slip & Drive Slip, 0,6mm Class 1	m	10			
	Carried to Collection				R	
	Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation					
	CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

29	DUCTING - SPIRAL TYPE Low Pressure Stainless Steel ducting including all transformation pieces (including all brackets and supports) to SANS 1238, 0,4mm Diameter 350	m	8		
30	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements. <u>Scullery</u>	No	1		
31	Wall mounted extract fan, with a capacity of 50 l/s, or similar approved, complete with wall mounted control switch	No	1		
32	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements. <u>Dry Store</u>	No	1		
33	Wall mounted extract fan, with a capacity of 50 l/s, or similar approved, complete with wall mounted control switch	No	1		
34	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements. <u>Bulk Store</u>	No	1		
35	Wall mounted extract fan, with a capacity of 50 l/s, or similar approved, complete with wall mounted control switch	No	1		
36	Installation & Commissioning (incl all brackets, supports and electrical connections) for each system, as per manufacturer's requirements. <u>Veg Store</u>	No	1		
37	Wall mounted extract fan, with a capacity of 50 l/s, or similar approved, complete with wall mounted control switch	No	1		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation					
CONTRACT/TENDER NO: RFP 347/2022					

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		260	
		261	
		262	
		263	
		264	
		265	
		266	
		267	
		268	
		269	
Carried Forward to Summary of Section No. 5			R
Section 6: Mechanical & Firefighting Works Bill No. 1: Air Conditioning and Ventilation			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 6</u></p> <p><u>BILL NO. 2: FIRE PROTECTION INSTALLATION</u></p> <p>NOTE: The contractor is advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p>NOTE: The contractor is advised to study the Mechanical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Principal Agent.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u></p> <p>The Contractor is referred to relevant annexure for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Trade names</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p>				
	<p style="text-align: right;">Carried to Collection</p> <p>Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation</p> <p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			R	

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

<u>FIRE FIGHTING EQUIPMENT AND RELATED PIPING</u>					
NOTE: Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, proving to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings and data sheets.					
<u>SITE PLAN</u>					
<u>Supply and Install SANS 62-1/2 class galvanised medium steel piping. Pipes shall be free of rust, flakes or other defects and shall be cleaned internally before installation. The pipework shall have screwed ends and shall include hangers, supports, fittings and all necessary accessories.</u>					
1	80mm	m	30		
2	100mm	m	15		
<u>Screw on Flanges - SANS 62, galvanised medium steel</u>					
3	80mm	No	20		
4	100mm	No	15		
<u>Elbows - SANS 62, galvanised medium steel</u>					
5	80mm - screwed	No	10		
6	100mm - screwed	No	13		
<u>Equal Tees - SANS 62, galvanised medium steel</u>					
7	100mm - screwed	No	2		
<u>Painting and labelling of all fire pipework as per SANS 10252 and SANS 10140. Colour Signal Red</u>					
8	80mm	m	30		
9	100mm	m	15		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<u>HDPE/uPVC adaptor to SANS 1123 1600/3 flange welded to SANS 62 pipe 1m long, with 3mm gasket and nut/bolt sets, all wrapped using Bitumen Tape throughout underground portion to suit galvanised medium steel pipe.</u>					
10	100mm	m	3			
11	50mm	m	4			
12	40mm	m	4			
13	25mm	m	4			
14	Supply and install 100mm Non-Return Valve Rated 16 Bar. Flanged connection including screw-on suitable flanges for Galvanised steel pipe to connect onto both ends.	No	1			
15	Supply and install 100mm Isolation Valve Rated 16 Bar. Flanged connection including screw-on suitable flanges for Galvanised steel pipe to connect onto both ends.	No	3			
16	Supply and install 100mm Y Shaped Strainer Rated 16 Bar. Flanged connection including screw-on suitable flanges for Galvanised steel pipe to connect onto both ends.	No	1			
17	Supply and install dial type (100mm) glycerine filled pressure gauge (0 - 600kPa). Including suitable weld-o-let connection to connect onto galvanised steel pipping.	No	1			
18	Supply and install dial type (100mm) glycerine filled pressure gauge (0 - 2500kPa). Including suitable weldolet connection to connect onto galvanised steel pipping.	No	1			
Carried to Collection						R
Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation						
CONTRACT/TENDER NO: RFP 347/2022						

	<u>Block B - Administration</u>				
	<u>Supply and Install SANS 62-1/2 class galvanised medium steel piping. Pipes shall be free of rust, flakes or other defects and shall be cleaned internally before installation. The pipework shall have screwed ends and shall include hangers, supports, fittings and all necessary accessories.</u>				
19	25mm - screwed	m	30		
	<u>Unions - SANS 62, galvanised medium steel</u>				
20	25mm - screwed	No	6		
	<u>Elbows - SANS 62, galvanised medium steel</u>				
21	25mm - screwed	No	9		
	<u>Barrel Nipples - SANS 62, galvanised medium steel</u>				
22	25mm - screwed	No	2		
	<u>Equal Tees - SANS 62, galvanised medium steel</u>				
23	25mm - screwed	No	1		
	<u>Painting and labelling of all fire pipework as per SANS 10252 and SANS 10140. Colour Signal Red</u>				
24	25mm	m	30		
25	Supply and install Fire Hose Reels (30m long) c/w chromium plated 25mm valve, connection, fittings, fixings and dial type (100mm) glycerine filled pressure gauge (0-2500kPa) with union and isolating valve suitable for systems working pressure.	No	2		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Block C-I and K-M</u>				
	<u>Supply and Install SANS 62-1/2 class galvanised medium steel piping. Pipes shall be free of rust, flakes or other defects and shall be cleaned internally before installation. The pipework shall have screwed ends and shall include hangers, supports, fittings and all necessary accessories.</u>				
26	25mm - screwed	m	120		
27	32mm - screwed	m	240		
28	40mm - screwed	m	900		
29	50mm - screwed	m	120		
	<u>Unions - SANS 62, galvanised medium steel</u>				
30	25mm - screwed	No	20		
31	32mm - screwed	No	50		
32	40mm - screwed	No	80		
33	50mm - screwed	No	20		
	<u>Elbows - SANS 62, galvanised medium steel</u>				
34	25mm - screwed	No	80		
35	32mm - screwed	No	120		
36	40mm - screwed	No	40		
37	50mm - screwed	No	40		
	<u>Barrel Nipples - SANS 62, galvanised medium steel</u>				
38	25NB - screwed	No	40		
39	32NB - screwed	No	40		
40	40NB - screwed	No	80		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Equal Tees - SANS 62, galvanised medium steel</u>				
41	40mm - screwed	No	40		
42	50mm - screwed	No	20		
	<u>Concentric Reducers - SANS 62, galvanised medium steel</u>				
43	32mm/25mm - screwed	No	40		
44	40mm/25mm - screwed	No	40		
45	40mm/32mm - screwed	No	40		
46	50mm/40mm - screwed	No	40		
	<u>Painting and labelling of all fire pipework as per SANS 10252 and SANS 10140. Colour Signal Red</u>				
47	25mm	m	120		
48	32mm	m	240		
49	40mm	m	900		
50	50mm	m	120		
	<u>Supply and install Fire Hose Reels (30m long) c/w chromium plated 25mm valve, connection, fittings, fixings and dial type (100mm) glycerine filled pressure gauge (0-2500kPa) with union and isolating valve suitable for systems working pressure.</u>				
51	Without Steel Cabinet	No	40		
52	With Steel Cabinet	No	40		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<u>Block J - Nutrition Centre</u>				
	<u>Supply and Install SANS 62-1/2 class galvanised medium steel piping. Pipes shall be free of rust, flakes or other defects and shall be cleaned internally before installation. The pipework shall have screwed ends and shall include hangers, supports, fittings and all necessary accessories.</u>				
53	25mm - screwed	m	20		
	<u>Unions - SANS 62, galvanised medium steel</u>				
54	25mm - screwed	No	4		
	<u>Elbows - SANS 62, galvanised medium steel</u>				
55	25mm - screwed	No	5		
	<u>Barrel Nipples - SANS 62, galvanised medium steel</u>				
56	25NB - screwed	No	1		
	<u>Painting and labelling of all fire pipework as per SANS 10252 and SANS 10140. Colour Signal Red</u>				
57	25mm	m	20		
58	Supply and install Fire Hose Reels (30m long) c/w chromium plated 25mm valve, connection, fittings, fixings and dial type (100mm) glycerine filled pressure gauge (0-2500kPa) with union and isolating valve suitable for systems working pressure.	No	1		
	<u>Overall System</u>				
59	Flushing of the entire pipework and pressure testing as per SANS 10287 and 10252		Item		
60	Test and commission the entire fire installation as required by SANS 10400 and SANS 10287		Item		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

<u>FIRE EXTINGUISHERS</u>					
<u>Supply and Install</u>					
<u>Block A - Security Room</u>					
61	Dry Chemical Powder (DCP) 4.5 kg Including Steel Cabinet	No	1		
<u>Block B - Administration</u>					
62	Dry Chemical Powder (DCP) 4.5 kg Including Steel Cabinet	No	2		
63	CO2 Type - Marked: "Electrical Fires Only" 5 kg	No	2		
<u>Block C-I and K-M</u>					
64	Dry Chemical Powder (DCP) 4.5 kg Including Steel Cabinet	No	9		
65	Dry Chemical Powder (DCP) 9 kg Including Steel Cabinet	No	1		
<u>Block J - Nutrition Centre</u>					
66	Dry Chemical Powder (DCP) 4.5 kg Including Steel Cabinet	No	1		
67	9,5 kg DCP fire extinguishers complete with Steel Cabinet mounted as required	No	1		
68	CO2 Type - Marked: "Electrical Fires Only" 5 kg Including Steel Cabinet	No	1		
69	Fire Blanket	No	1		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<p><u>STATUTORY FIRE SIGNAGE</u></p> <p>Supply and install photo luminescent fire and evacuation signage as described below and as per the tender drawings:</p> <p>All signed to be framed in the natural anodized aluminium frame with mitred corner and concealed elbow joints.</p> <p>All wall mounted fire and evacuation signs to be fixed with concealed screws and no double sided tape will be permitted for the mounting of the signs.</p> <p>All suspended fire and evacuation signs to be hung from a steel cables or metal chains.</p> <p>All signage to be a minimum 190mm size.</p> <p>All fire and evacuation signs to be SANS 1186-1, 1186-3 and 1186-5 approved, and also to bear the SANS stamp of approval.</p> <p><u>Photoluminescent Signage in line with SANS 1186. Signage detail and fixing detail to be allowed for. Sign fixing detail to be presented to the architect for approval before procurement and installation. Size 300mm x 300mm (E1 -E3 Outside Signage) and 150mm x 150mm (E4 onwards)</u></p> <p><u>SITE PLAN</u></p>				
70	Emergency Assembly Point Signage including mounting pole	No	2		
	<u>Block A - Guard House</u>				
71	Extinguisher signage with directional arrow	No	1		
	<u>Block B - Administration</u>				
72	Access and Direction of travel Signage with directional arrow	No	6		
73	Exit Signage	No	3		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

74	Hose reel and Extinguisher signage with directional arrow	No	4		
75	Extinguisher signage with directional arrow	No	1		
<u>Block C-I and K-M</u>					
76	Access and Direction of travel Signage with directional arrow	No	60		
77	Hose reel and Extinguisher signage with directional arrow	No	14		
78	Extinguisher signage with directional arrow	No	20		
<u>Block J - Nutrition Centre</u>					
79	Access and Direction of travel Signage with directional arrow	No	12		
80	Hose reel and Extinguisher signage with directional arrow	No	4		
81	Extinguisher signage with directional arrow	No	6		
<u>Standard Signage in line with SANS 1186. Signage detail and fixing detail to be allowed for. Sign fixing detail to be presented to the architect for approval before procurement and installation. Size 150mm x 150mm</u>					
82	No Smoking Allowed	No	1		
83	No Naked Flames Allowed	No	1		
84	No Unauthorised Access	No	1		
85	No Cellular phones Allowed	No	1		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation					
CONTRACT/TENDER NO: RFP 347/2022					

	<u>BLOCK J - FIRE SUPPRESSION (COOKER HOOD)</u>				
	<u>Kitchen hood fire suppression system to be in line with SANS 369-2:2004/BS 7273-2:1992 and SANS 369-1:2004/BS 7273-1:2000.</u>				
86	16L Pressure Vessel - Working Pressure 16 Bar	No	1		
87	Class F Extinguishing Agent	l	16		
88	16L Cylinder Mounting Bracket	No	1		
89	Manual Activation point to suit overall fire suppression system	No	1		
90	Stainless Steel Discharge Tubing	m	15		
91	Stainless Steel Elbow ring type connector to suit Discharge Tubing	No	6		
92	Stainless Steel T piece ring type connector to suit Discharge Tubing	No	5		
93	Stainless Steel spray nozzles	No	6		
94	Stainless Steel Discharge Tubing mounting brackets	No	6		
95	Flexible sensor tubing including suitable mounting brackets and dry nitrogen at 16Bar	m	25		
96	Programmed Controller including all necessary cabling and backup power to ensure operation of the entire system during power failures.	No	1		
97	Solenoid Valve	No	1		
98	Pressure Switch	No	1		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<u>BOOSTER PUMP, TANK AND RELATED PIPING</u>				
	<u>Supply and Install SANS 62-1/2 class galvanised medium steel piping. Pipes shall be free of rust, flakes or other defects and shall be cleaned internally before installation. The pipework shall have screwed ends and shall include hangers, supports, fittings and all necessary accessories.</u>				
99	32mm - screwed	m	3		
100	50mm - screwed	m	23		
	<u>Unions - SANS 62, galvanised medium steel</u>				
101	50mm - screwed	No	50		
	<u>Elbows - SANS 62, galvanised medium steel</u>				
102	32mm - screwed	No	2		
103	50mm - screwed	No	10		
	<u>Equal Tees - SANS 62, galvanised medium steel</u>				
104	32mm - screwed	No	1		
105	50mm - screwed	No	5		
	<u>Painting and labelling of all fire pipework as per SANS 10252 and SANS 10140. Colour Signal Red</u>				
106	32mm	m	3		
107	50mm	m	23		
108	Supply and install 50mm Non-Return Valve Rated 16 Bar. Flanged connection including screw-on suitable flanges for Galvanised steel pipe to connect onto both ends.	No	1		
109	Supply and install 50mm Isolation Valve Rated 16 Bar. Screwed Connections.	No	5		
110	Supply and install 32mm Isolation Valve Rated 16 Bar. Screwed connections.	No	2		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

111	Supply and install dial type (100mm) glycerine filled pressure gauge (0 - 600kPa). Including suitable weldolet connection to connect onto galvanised steel pipping.	No	1		
112	Supply and install dial type (100mm) glycerine filled pressure gauge (0 - 2500kPa). Including suitable weldolet connection to connect onto galvanised steel pipping.	No	1		
113	Supply and Install fire booster pumps for fire water supply, complete with pressure vessel, non-return valves, anti-vibration connections, mounted onto 150mm high mounting frames, shut-off valves for both suction and delivery ends for each pump, Y-strainers on the suction end of each pump, non-return valves on the delivery ends of each pump, suction and delivery manifolds, variable speed drive (VSD), float switches, flow switches, pressure sensors/switches, 100mm dial type glycerine filled pressure gauges (0-600kPa) at the delivery end of each pump, suitable adaptors to connect to 50mm steel piping on both suction and delivery ends and all necessary accessories to ensure a successful installation.	No	1		
114	100 litres Pressure Vessel for the above pump systems	No	1		
115	Float switch (Water Level sensor)	No	2		
116	Flow switch	No	2		
117	Pressure sensor	No	2		
118	100mm diameter dial type Pressure Gauge (0-600kPa)	No	2		
119	50mm Y - Strainer	No	2		
120	50mm Isolation Valve	No	4		
121	50mm Non Return Valve	No	2		
122	Mounting Frames and anti vibration mounts	No	2		
123	Supply and install 5000l plastic tank on footing which ensure a minimum pump suction head of 500mm.	No	2		
Carried to Collection					R
Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation					
CONTRACT/TENDER NO: RFP 347/2022					

EMIS NUMBER: 600102163

-284-

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		271	
		272	
		273	
		274	
		275	
		276	
		277	
		278	
		279	
		280	
		281	
		282	
		283	
		284	
Carried Forward to Summary of Section No. 5			R
Section 6: Mechanical & Firefighting Works Bill No. 2: Fire Protection Installation			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 6</u></p> <p><u>BILL NO. 3: KITCHEN & LAB EQUIPMENT INSTALLATION</u></p> <p>NOTE: The contractor is advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p>NOTE: The contractor is advised to study the Mechanical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Project Manager.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u></p> <p>The Contractor is referred to relevant annexure for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Trade names</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p>				
	<p>Carried to Collection</p>			R	
	<p>Section 6: Mechanical & Firefighting Works Bill No. 3: Kitchen & Lab Installation</p>				
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.**EMIS NUMBER: 600102163****Ductwork**

Where transformations or reducers occur the larger size ductwork has been measured through the fitting.
 Descriptions of ductwork shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification

Dampers

Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts

Air Diffusion

Descriptions of air terminals, grilles, louvres and the like shall be deemed to include necks, frames, supports and flexible connections

Fans

Descriptions of fan assemblies shall be deemed to include supports from the structure, flexible or other connections to ductwork, vibration isolation mountings and airtight inspection doors

Sound attenuators

Descriptions of sound attenuators shall be deemed to include flanged or flexible connections to ductwork and supports from the structure

Fan coil units, fan air terminals and fan heaters

Descriptions of fan coil units, fan air terminals and fan heaters shall be deemed to include connection points for water, air and electrical, air grilles, dust trays, condensate trays and vibration isolation mountings. Flexible ducting, flexible hose and connecting cables for connecting these units to each other or to water piping and electrical supply are separately measured

Carried to Collection**R**

Section 6: Mechanical & Firefighting Works
 Bill No. 3: Kitchen & Lab Installation

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>Major equipment</u>					
Descriptions of major equipment such as chillers, air handling units and the like shall be deemed to include connections to water, air and electrical supply and/or discharge points, supports, bearers, vibration isolation mountings, filters, insulation, inspection ladders and gangways, access doors and panels, painting, etc as specified					
<u>KITCHEN & LAB EQUIPMENT INSTALLATION</u>					
<u>KITCHEN EQUIPMENT</u>					
* "Rate" includes material, delivery & installation labour.					
<u>Supply and install the following kitchen equipment complete with all fittings and accessories as described in accordance with the manufacturer's specification complete with labour.</u>					
1 Hand Wash Basin complete with brackets	No	1			
2 Sink 1650mm Bowl Prep R/H	No	1			
3 Stainless Steel Splash Back 1300mm	No	1			
4 Stay Underbar 3 Door	No	1			
5 Table - 2250 x 650 x 915 Splashback	No	1			
6 Table - 1650 x 650 x 915 Splashback	No	1			
7 Hot Closet - 1800 2 Tier Heated	No	1			
8 Cabinet - 1800 x 750 Doors and Shelf	No	1			
9 Riser Shelf Anvil 1700mm	No	1			
10 Canopy 3 x 3m	No	1			
11 Electric 20 Pan Convection Oven	No	1			
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 3: Kitchen & Lab Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

12	1/1 GN Trolley	No	1		
13	136 L Oil Jacket Gas	No	1		
14	4 Burner Gas Staggered Boil Tab	No	1		
15	Table - 600 x 650 x 915 Splashback	No	2		
16	Gas Fryer 20 L	No	2		
17	Ingredient Bin 85 L Black	No	1		
18	Inlet Dump Table - 1800 x 600 Prerinse Sink	No	1		
19	DIHR Dishwasher 11S	No	1		
20	Table Outlet - 1050 x 620	No	1		
21	Stainless Steel Splashback 1200mm	No	1		
22	Single Bowl Pot Sink - 900 x 650 x 915	No	1		
23	Staycold Upright Freezer 1140	No	1		
24	Fridge - 1360 Sliding Door (635 x 13060 x 2020)	No	1		
25	Shelving 1150	No	4		
26	Shelving 750	No	5		
	<u>LABORATORY</u>				
	<u>Supply and install complete following laboratory sinks with acid resistant wastes</u>				
27	435 x 335 x 235mm (L x W x D)	No	1		
	<u>Supply and install school fume cupboard complete with Viewing glass right around the cupboard, Light box above the working area, A tap, drip cup and bottle trap, Air vents in the rear window, Plumbing outlet, Extraction point above the work area, Stainless steel work surface, Fan and light switch</u>				
28	2120 x 1000mm "VA 600S" – School Fume Extraction Cabinet	No	1		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 3: Kitchen & Lab Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

EMIS NUMBER: 600102163

-291-

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 6</u></p> <p><u>BILL NO. 4: LP GAS INSTALLATION</u></p> <p>NOTE: The contractor is advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p>NOTE: The contractor is advised to study the Mechanical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Project Manager.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u></p> <p>The Contractor is referred to relevant annexure for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Trade Names</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p>ACCEPTABLE TRADE NAMES: Afrox, Handigas, Easygas, Maksal</p>				
	<p style="text-align: center;">Carried to Collection</p> <p>Section 6: Mechanical & Firefighting Works Bill No. 4: LPG Installation</p> <p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			R	

<u>LP GAS INSTALLATION</u>					
<u>The supply, delivery, installation and commissioning of equipment as per the requirements of SANS 10087-1 for LPG gas installation</u>					
<u>Block I & J - GAS</u>					
<u>Supply and install Copper Piping to SABS 460 Class 2: Capillary type connections, pipes, fittings, saddles, bracketing and accessories fixed to soffit and walls, or as described in accordance with the manufacturer's specification complete with labour.</u>					
<u>SABS 460 Class 2 - Pipe</u>					
1	Ø15	m	39		
2	Ø22	m	55		
<u>SABS 460 Class 2 - Elbows - 90 degrees</u>					
3	Ø15	No	39		
4	Ø22	No	25		
<u>SABS 460 Class 2 - Concentric Reducer</u>					
5	Ø22 - Ø15	No	13		
<u>SABS 460 Class 2 - Equal Tee</u>					
6	Ø22	No	11		
<u>SABS 460 Class 2 - End Caps</u>					
7	Ø15	No	4		
8	Ø22	No	4		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 4: LPG Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>Isolating Valve with Handle nickel plated, rated for gas</u>				
9	Ø22	No	19		
	<u>Single Cylinder LP Gas Regulator</u>				
10	Ø22	No	8		
11	Pigtail , SANS 10087-1, with all required fittings, 1000mm long	No	8		
12	Change-over Compression fitting	No	2		
13	Pressure Gauges c/w fitted socket, isolating valve and pigtail piping	No	2		
	<u>Signage required as per SANS 10087-1:2008 for placement at plant room</u>				
14	No access	No	2		
15	No Smoking	No	2		
16	No Cell Phones	No	2		
17	No Lighting Matches	No	2		
18	Gas Cage to house 4 off 48 KG cylinders complying with SANS 10087	No	4		
	<u>Holderbat clamp with rubber spacer between pipe and clamp</u>				
19	15mm pipe	No	17		
20	22mm pipe	No	12		
21	Pressure test of System	No	2		
22	Supply 48kg Cylinders	No	8		
23	4 Plate Gas Stove	No	4		
	Carried to Collection			R	
	Section 6: Mechanical & Firefighting Works Bill No. 4: LPG Installation				
	CONTRACT/TENDER NO: RFP 347/2022				

EMIS NUMBER: 600102163

-295-

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

[illegible]

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION 6</u></p> <p><u>BILL NO. 5: WET SERVICES</u></p> <p>NOTE: The contractor is advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p>NOTE: The contractor is advised to study the Mechanical Engineer's drawings before pricing this bill. In the case of any discrepancies between the bill and the drawings the contractor must notify the Project Manager.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Supplementary preambles and full descriptions of materials, items, work, etc. applicable to this Section</u></p> <p>The Contractor is referred to relevant annexure for supplementary preambles and full descriptions of materials, items, work, etc. which shall be regarded to be equally applicable for work described in this section, unless specifically otherwise described</p> <p><u>Trade Names</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p>				
	<p style="text-align: right;">Carried to Collection</p> <p>Section 6: Mechanical & Firefighting Works Bill No. 5: Wet services Installation</p> <p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			R	

THE FOLLOWING FOR FOR THE A, B, E, F, H, I, J, K, L & M					
<u>WATER SUPPLIES</u>					
<u>Class O thin wall hard drawn copper pipes and fittings with capillary soldered type connections to SABS 460:</u>					
1	15mm Pipe laid in/under floors or fixed to walls, roof timbers, etc	m	1 875		
2	22mm Pipe laid in/under floors or fixed to walls, roof timbers, etc	m	1 900		
3	28mm Pipe laid in/under floors or fixed to walls, roof timbers, etc	m	735		
4	35mm Pipe laid in/under floors or fixed to walls, roof timbers, etc	m	350		
<u>Extra over class O copper pipes for soldered capillary fittings</u>					
5	15mm Fittings	No	1 825		
6	22mm Fittings	No	1 925		
7	28mm Fittings	No	385		
8	35mm Fittings	No	60		
<u>LAGGING TO PIPES</u>					
<u>Type 25 or other approved flexible pipe insulation of 15mm nominal wall thickness, pre-formed, close-celled cross linked polyethelene foam with quick zip fastener</u>					
9	15mm Diameter pipes, including fittings	m	100		
Carried to Collection				R	
Section 6: Mechanical & Firefighting Works Bill No. 5: Wet services Installation					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>WATER EQUIPMENT</u>					
10	Supply and install lagged 150 Litres hot water cylinder complete with electric element, drip tray with P-traps, multi-control valve, element thermostat, safety valve, necessary strainers, valves, pressure gauges, piping and accessories as per manufacturers specification or as shown on the drawing schematic. Hot water return circulation pump priced separately. This must include end connection to copper pipe. All products and installation are to be in accordance to SANS 1098, SABS 1151-2002 and SANS 10254 respectively. Kwikot, Thermowise, Heat tech, or equally approved brand.	No	4		
11	The contractor is to supply, deliver, and install the 10l Hydroboil as shown on drawings. The contractor is responsible for the termination electrical connection, wiring of equipment and commissioning in communication with the clients electrical department including and plumbing and electrical COC.	No	1		
12	The contractor is to supply, deliver, and install the 25l Hydroboil as shown on drawings. The contractor is responsible for the termination electrical connection, wiring of equipment and commissioning in communication with the clients electrical department including and plumbing and electrical COC.	No	4		
13	Supply, delivery and installation of 2.5 KW Water Heat Pump, heating reservoir water to a temperature of between 55 - 60°C, with minimum ambient temperature of 0°C, including automatic defrost cycle, all safety features, thermostats, controls, connection to main control panel, fittings, copper pipework, insulation (kflex or armorflex), sheet metal cladding, bends,tees, circulating pump and necessary accessories as per the manufacturer specification and or shown on the drawings. All pipework interconnection between tank and heat pumps to be fitted with lagging, including PVC drains to nearest drainage point. The Tenderer is ensure that all Tees, (elbow, brackets, reducer, straight connectors, hangers, inline strainers, non-return valves, ball valves, etc.) required for the Heat Pump is provided for.	No	4		
Carried to Collection					R
Section 6: Mechanical & Firefighting Works Bill No. 5: Wet services Installation					
CONTRACT/TENDER NO: RFP 347/2022					

EMIS NUMBER: 600102163

CONTRACT/TENDER NO: RFP 347/2022

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		297	
		298	
		299	
		300	
Carried Forward to Summary of Section No. 5			R
Section 6: Mechanical & Firefighting Works Bill No. 5: Wet services Installation			
CONTRACT/TENDER NO: RFP 347/2022			

EMIS NUMBER: 600102163

-302-

Item No		Quantity	Rate	Amount
	<p><u>SECTION 7</u></p> <p><u>BILL NO. 1: SCHOOL MOVABLE FURNITURE</u></p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p>NOTE: For preambles see " School Furniture Specifications (With Pictures) " attached to these Bills of Quantities</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Trade names</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior written approval from the Representative / Agent</p> <p><u>Fittings general</u></p> <p>Where fittings have been measured as complete units i.e. the components of the units have not been separately measured, the descriptions of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc</p> <p>Unless specifically stated, or where no finish is given, finishes to all joinery fittings shall be three coats polyurethane clear semi-gloss varnish to all exposed surfaces</p>			
	<p>Carried to Collection</p>		R	
	<p>Section 7: School Furniture Bill No. 1: School Furniture</p>			
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>			

Drawings

The references given in the descriptions are to the respective fittings detailed on the drawings accompanying these bills of quantities for tender purposes

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Construction

Construction of fittings shall be generally of wood, screwed and glued with pelleted heads where visible. All materials used must be of the best quality fabricate approved by the Representative / Agent and all the units to be finished neat and true prior to installation and finishing

Doors to fittings

Sizes of doors and drawers are approximate. Correct sizes must be taken from the fittings concerned

Carried to Collection

R

Section 7: School Furniture
 Bill No. 1: School Furniture

CONTRACT/TENDER NO: RFP 347/2022

BLOCK - A**LOWER BACK TYPIST CHAIR WITH 5-STAR BASE****(Page 32)**

- 1
1. SEAT AND BACK APPROVED FOAM [SEAT (45MM THICK) MINIMUM 23KG/M3, BACK (25MM THICK) MINIMUM 16KG/M3] AND UPHOLSTERY (100% POLYPROPYLENE - CONTRACT QUALITY) FOAM TO BE GLUED ONTO ± 11MM SHAPED PLYWOOD SEAT AND BACK
 2. SEAT FITTED WITH BOLTS & T-NUTS TO STEEL FRAME
 3. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME
 4. GAS HEIGHT ADJUSTABLE SPINDLE FIVE (5) STAR REINFORCE NYLON BASE WITH DURABLE CASTORS CHAIR TO COMPLY WITH SANS/SABS 1244;1979

No

1

BLOCK - B**LOWER BACK TYPIST CHAIR WITH 5-STAR BASE****(Page 32)**

- 2
1. SEAT AND BACK APPROVED FOAM [SEAT (45MM THICK) MINIMUM 23KG/M3, BACK (25MM THICK) MINIMUM 16KG/M3] AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO ± 11MM SHAPED PLYWOOD SEAT AND BACK
 2. SEAT FITTED WITH BOLTS & T-NUTS TO STEEL FRAME
 3. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME
 4. GAS HEIGHT ADJUSTABLE SPINDLE FIVE (5) STAR REINFORCE NYLON BASE WITH DURABLE CASTORS CHAIR TO COMPLY WITH SANS/SABS 1244;1979

No

2

Carried to Collection

R

Section 7: School Furniture
 Bill No. 1: School Furniture

CONTRACT/TENDER NO: RFP 347/2022

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

<u>TEACHER'S CHAIR (Page 25)</u>					
3	<p>1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG) BACK MINIMUM 16KG) AND UPHOLSTERY (100% POLYPROPYLENE - CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD</p> <p>2. STACKABLE STEEL FRAME ASSEMBLY: 22.23 X 1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH.</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS</p> <p>4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS</p> <p>5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME. CHAIR TO COMPLY WITH SANS/SABS 1244:1979</p>	No	16		
<u>PRINCIPAL'S HIGH BACK CHAIR (PG.31)</u>					
4	<p>1. SEAT AND BACK APPROVED FOAM [SEAT (50MM THICK) MINIMUM] 23KG/M3; BACK(40MM THICK) MINIMUM 16KG/M3] AND UPHOLSTERY (100% POLYPROPYLENE - CONTRACT QUALITY) FOAM TO BE GLUED ONTO +/- 11MM SHAPED PLYWOOD SEAT AND BACK</p> <p>2. STEEL FRAME; Ø25.4 X 1.6MM TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS</p> <p>4. APPROVED ARM RESTS TO BE FITTED TO STEEL FRAME</p> <p>5. SEAT FITTED WITH BOLTS & T-NUTS TO STEEL FRAME</p> <p>6. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME</p> <p>7. SWIVEL & TILT MECHANISM</p> <p>8. GAS HEIGHT ADJUSTABLE SPINDLE</p> <p>9. FIVE (5) STAR REINFORCE NYLON BASE WITH DURABLE CASTORS</p> <p>CHAIR TO COMPLY WITH SABS1528-1;1992</p>	No	2		
Carried to Collection					R
Section 7: School Furniture Bill No. 1: School Furniture					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

5	<u>PRINCIPAL'S DESK (PG.38)</u>	No	2	R
	<ol style="list-style-type: none"> 1. TOP POSTFORMED (180°) DECORATIVE MELAMINE (NATURAL OAK) WITH BALANCING BACKER LAMINATED ON 32MM SUBSTRATE PARTICLE BOARD. 2. SIDE PANELS SAME AS FOR TOP, BUT DOUBLE DECOR 3. DRAWER BOX WITH 3-DRAWERS TOP DRAWER LOCKABLE WITH PENCILTRAY APPROVED LOCK, METAL DRAWER RUNNERS AND MATCHING HANDLES 4. APPROVED HEIGHT ADJUSTABLE FEET 5. MODESTY PANEL, DOUBLE SIDED MELAMINE FACED (NATURAL OAK) 16MM PARTICLE BOARD 6. ALL EDGES SEALED WITH MATCHING PVC EDGING TOP EDGES EDGING AT LEAST 2MM THICK DESK MUST COMPLY WITH SABS 1528-2:1996 (Edition 1.1) 			
6	<u>STATIONARY CUPBOARD (PG.29)</u>	No	1	R
	<ol style="list-style-type: none"> 1. CARCASS (TOP, BOTTOM, DOORS, SIDES AND SHELVES) MANUFACTURING FROM 16MM DOUBLE MELAMINE FACED (NATURAL OAK) PARTICLE BOARD. ALL EDGES SEALED WITH MATCHING PVC EDGING. 2. BACK (GROOVED AND GLUED IN) MANUFACTURED FROM 12MM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) PARTICLE BOARD 3. APPROVED SOLID OAK CUP HANDLE 4. APPROVED ADJUSTABLE FEET 5. APPROVED CONCEALED HINGES CUPBOARD MUST COMPLY WITH SABS 1528-3:1992 			
<div>Carried to Collection</div> <div> Section 7: School Furniture Bill No. 1: School Furniture </div> <div>CONTRACT/TENDER NO: RFP 347/2022</div>				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

	<u>CORRESPONDENCE RACK (PG.34)</u>			
7	<div>1. CARCASS (BOTTOM, SIDES, BACK AND DIVISION) MANUFACTURED FROM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) 12MM PARTICLE BOARD</div> <div>2. ALL EDGES SEALED WITH PVC EDGING CORRESPONDENCE RACK MUST COMPLY WITH SABS 1528-3:1992</div>	No	2	
	<u>PRINCIPAL'S GLASS BOOKCASE (PG.35)</u>			
8	<div>1. CARCASS (TOP,BOTTOM, SIDES AND ADJUSTABLE SHELVES) MANUFACTURED FROM 16MM SUBSTRATE VENEER BOARD (COLOUR TO MATCH ITEM IN FIG 13) ALL EDGES SEALED WITH MATCHING VENEER</div> <div>2. DOOR FRAME ASSEMBLED, FIXED SHELF AND BASE MANUFACTURED FROM 21MM SOLID SALIGNA HARDWOOD (Eucalyptus Crendls)</div> <div>3. BACK 3.2MM HARDBOARD</div> <div>4. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF CATALYSED LACCUER</div> <div>5. FIT 3MM CLEAR FLOAT GLASS TO DOOR FRAMES BOOKCASE MUST COMPLY WITH SABS:1528- 3:1992</div>	No	1	
	<u>CORNER PIECE (PG.37)</u>			
9	<div>1. TOP POSTEDREWEED (180°) DECORATIVE MELAMINE (COLOUR - NATURAL OAK) AND BALANCING BACKER LAMINATED ONTO A 32MM PARTICLE BOARD</div> <div>2. EDGES TO BE SEALED WITH MATCHING PVC EDGING (AT LEAST 2MM THICK)</div> <div>3. APPROVED FIXING METHOD TO DESK AND SIDE TABLES CONNECTING CORNER MUST COMPLY WITH SABS 1528-2:1998 (Edition 1.1)</div>	No	2	

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

<u>FILING CABINET (PG.39)</u>					
10	<ol style="list-style-type: none"> 1. TOP MELAMINE FACED (OAK) LAMINATE AND BALANCING BACKER LAMINATED TO A 32MM SUBSTRATE BOARD 2. CARCASS (SIDES, BOTTOM,RAILS AND DRAWER FRONTS) (NATURAL OAK) 16MM PARTICLE BOARD EDGES SEALED WITH MATCHING PVC EDGING TOP EDGES AT LEAST 2MM THICK PVC EDGING. 3. BACK MANUFACTURED FROM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) 12MM PARTICLE BOARD 4. APPROVED LOCKS 5. DRAWER CARCASS MANUFACTURED FROM DOUBLE SIDED MELAMINE FACED 16MM PARTICLE BOARD, EDGES SEALED WITH MATCHING PVC EDGING, A4 POCKET FOLDERS MUST FIT IN DRAWER IN A HANGING POSITION 6. APPROVED HANDLE AND METAL DRAWER RUNNERS CABINET MUST COMPLY WITH SABS 1528-3:1992 	No	3		
Carried to Collection				R	
Section 7: School Furniture Bill No. 1: School Furniture					
CONTRACT/TENDER NO: RFP 347/2022					

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

11	<p><u>PRINCIPAL'S CREDENZA (PG.40)</u></p> <p>1. TOP POSTFORMED (180°) DECORATIVE MELAMINE OAK WITH BALANCED BACKER LAMINATED ON 32MM SUBSTRATE PARTICLE BOARD</p> <p>2. CARCASS (SIDES, BOTTOM AND ADJUSTABLE SHELF) MANUFACTURED FROM 16MM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) PARTICLE BOARD</p> <p>3. DOORS AND BACK (GROOVED AND GLUED IN) MANUFACTURED FROM 12MM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) PARTICLE BOARD</p> <p>4. ALL EDGES TO BE SEALED WITH MATCHING PVC EDGING</p> <p>5. APPROVED HEIGHT ADJUSTABLE FEET</p> <p>6. APPROVED HANDLES AND LOCK (PUSH BUTTON)</p> <p>7. PVC SLIDING HANDLES TOP AND BOTTOM CREDENZA MUST COMPLY WITH SABS 1528- 3:1992.</p>	No	2	
12	<p><u>SICK ROOM CHAIR (PG.42)</u></p> <p>1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG/M3; BACK MINIMUM 16KG/M3) AND UPHOLSTERY (100% POLYPROPYLENE - CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD</p> <p>2. STACKABLE STEEL FRAME ASSEMBLY 22.23X1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS</p> <p>4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS</p> <p>5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME</p> <p>6. APPROVED ARM RESTS FITTED TO STEEL FRAME CHAIR TO COMPLY WITH SANS/SABS 1244:1979</p>	No	1	
Carried to Collection				R
Section 7: School Furniture Bill No. 1: School Furniture				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

	<u>STEEL FRAME SINGLE BED (PG.30)</u>				
13	STEEL FRAME SINGLE BED INCLUDING 191CM X 91CM X 15CM MATTRESS	No	1		
	<u>TEACHERS STAFFROOM DESK (PG.26)</u>				
14	1. TABLE TOP - 21MM SOLID HARDWOOD, 2. MODESTY PANEL AND DRAWER BOX CARCASS MANUFACTURED FROM MATCHING 16MM SUBSTRATE VENEER BOARD ALL EDGES SEALED WITH MATCHING VENEER 3.32X1.6MM SQUARE TUBING FRAME WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH 4. DURABLE PLUGS FITTED TO ALL LEGS ENDS 5. 21MM SOLID SALIGNA HARDWOOD DRAWER FRONTS, TOP DRAWER LOCKABLE (APPROVED LOCK) 6. APPROVED HANDLE AND DRAWER SLIDES 7. KNOCK-DOWN "PRISMA" FITTING 8. MODESTY PANEL TO BE SECURED TO STEEL FRAME WITH 4.8X27MM LARGE FLANGE POP REVETS 9. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF ACD CATALYSED LACQUER 10. FIT TOP TO STEEL FRAME WITH APPROVED SCREWS DESK MUST COMPLY WITH SABS 1528-2:1998 (EDITION 1.1)	No	12		
	Carried to Collection			R	
	Section 7: School Furniture Bill No. 1: School Furniture				
	CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.

EMIS NUMBER: 600102163

<u>STATIONARY CUPBOARD (PG.28)</u>				
<p>15</p> <p>1. CARCASS (TOP, BOTTOM, DOORS, SIDES AND SHELVES) MANUFACTURING FROM 16MM DOUBLE MELAMINE FACED (NATURAL OAK) PARTICLE BOARD. ALL EDGES SEALED WITH MATCHING PVC EDGING.</p> <p>2. BACK (GROOVED AND GLUED IN) MANUFACTURED FROM 12MM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) PARTICLE BOARD</p> <p>3. APPROVED SOLID OAK CUP HANDLE</p> <p>4. APPROVED ADJUSTABLE FEET</p> <p>5. APPROVED CONCEALED HINGES CUPBOARD MUST COMPLY WITH SABS 1528-3:1992</p>	No	4		
<u>FILING RACK 30 PIGEON HOLES (PG.33)</u>				
<p>16</p> <p>1. LP. LAMINATE: DOUBLE DECOR WITH 16mm SUBSTRATE (REF 2.1.9)</p> <p>2. 6.4mm SHELVES AND 3.2mm BACK PANEL RECESSED INTO TOP AND SIDES (IN HARDBOARD) ALL EXPOSED EDGES TO BE EDGED WITH MATCHING LAMINATE (REF 2.1.3)</p>	No	1		
Carried to Collection			R	
<p>Section 7: School Furniture</p> <p>Bill No. 1: School Furniture</p>				
CONTRACT/TENDER NO: RFP 347/2022				

17	<p><u>HOD CHAIR (PG.41)</u></p> <ol style="list-style-type: none"> 1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG/M3; BACK MINIMUM 16KG/M3) AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD 2. STACKABLE STEEL FRAME ASSEMBLY 22.23X1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH 3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS 4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS 5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME 6. APPROVED ARM RESTS FITTED TO STEEL FRAME CHAIR TO COMPLY WITH SANS/SABS 1244:1979 	No	6	
18	<p><u>TEACHER'S DESK (PG.27)</u></p> <ol style="list-style-type: none"> 1. TABLE TOP – 21MM SOLID HARDWOOD, 2. DRAWERS MANUFACTURED FROM MATCHING 16MM SUBSTRATE VENEER BOARD ALL EDGES SEALED WITH MATCHING VENEER 3. 21MM SOLID SALIGNA HARDWOOD DRAWER FRONTS, BOTH DRAWERS LOCKABLE (APPROVED LOCK) 4. APPROVED HANDLE 5. KNOCK-DOWN “PRISMA” FITTING 6. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF ACD CATALYSED LACQUER DESK MUST COMPLY WITH SABS 1528- 2:1998 (EDITION 1.1) 	No	1	
	<p>Carried to Collection</p>			R
<p>Section 7: School Furniture Bill No. 1: School Furniture</p>				
<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

19	<p><u>8 SEATER TABLE (PG.16-750mm HIGH)</u></p> <ol style="list-style-type: none"> 1. ABLE TOP - 21MM SOLID SALIGNA HARDWOOD (Eucalyptus Grendles) 2. Ø 25X1.6MM TUBING STACKABLE STEEL FRAME WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH 3. DURABLE PLUGS FITTED TO ALL OPEN ENDS 4. PENCIL GROOVE 16X3MM 5. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF ACID CATALYSED LACCUER 6. FIT TOOP STEEL FRAME WITH APPROACHED SCREWS TABLE MUST COMPLY WITH SANS 660:2004 (Edition 3.2) 	No	1		
	<p><u>CLASSROOMS (C, D, F & G)</u></p> <p><u>TEACHER'S CHAIR (Page 25)</u></p>				
20	<ol style="list-style-type: none"> 1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG) BACK MINIMUM 16KG) AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD 2. STACKABLE STEEL FRAME ASSEMBLY: 22.23 X 1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLTIESTER POWDER COATING FINISH. 3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS 4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS 5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME. CHAIR TO COMPLY WITH SANS/SABS 1244:1979 	No	14		
	<p>Carried to Collection</p>			R	
	<p>Section 7: School Furniture Bill No. 1: School Furniture</p>				

CONTRACT/TENDER NO: RFP 347/2022

	<u>TEACHER'S DESK (PG.27)</u>				
21	<p>1. TABLE TOP – 21MM SOLID HARDWOOD,</p> <p>2. DRAWERS MANUFACTURED FROM MATCHING 16MM SUBSTRATE VENEER BOARD ALL EDGES SEALED WITH MATCHING VEENER</p> <p>3. 21MM SOLID SALIGNA HARDWOOD DRAWER FRONTS, BOTH DRAWERS LOCKABLE (APPROVED LOCK)</p> <p>4. APPROVED HANDLE</p> <p>5. KNOCK-DOWN “PRISMA” FITTING</p> <p>6. ALL TIMBER COMPONENTS TO BE VARBISHED WITH TWO COATS OF ACD CATALYSED LACQUER DESK MUST COMPLY WITH SABS 1528- 2:1998 (EDITION 1.1)</p>	No	15		
	<u>DOUBLE COMBINATION DESK (PG.9)</u>				
22	<p>1. TOP FRONT SLAT, BACK, SLAT MANUFACTURED FROM 21MM SOLID SALIGNA, HARDWOOD (Eucalyptus Grandls)</p> <p>2. MAIN STEEL FRAME Ø31.7X.6MM TUBING</p> <p>3. SEAT SUPPORT RAIL Ø15.05X1.2MM TUBING</p> <p>4. SEAT Ø15.88X1.2MM TUBING COMPLETE STEEL FRAME BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH</p> <p>5. DURABLE PLUGS FITTED ON ALL OPEN ENDS</p> <p>6. ALL TIMBER COMPONENT TO BE VARNISHED WITH TWO COATS OF ACID CATALYSED LADOUER</p> <p>7. FIT ALL TIMBER COMPONENTS TO STEEL FRAME WITH APPROVED M5/M5 BOLTS AND MYLOCK NUTS DESK MUST COMPLY WITH SANS 880:2004 (Edition 3.2)</p>	No	210		

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

23	<p><u>SINGLE COMBINATION DESK (PG.8)</u></p> <p>1. TOP FRONT SLAT, BACK, SLAT MANUFACTURED FROM 21MM SOLID SALIGNA, HARDWOOD (Eucalyptus Grandls)</p> <p>2. MAIN STEEL FRAME Ø31.7X.6MM TUBING</p> <p>3. SEAT SUPPORT RAIL Ø15.05X1.2MM TUBING</p> <p>4. SEAT Ø15.88X1.2MM TUBING COMPLETE STEEL FRAME BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH</p> <p>5. DURABLE PLUGS FITTED ON ALL OPEN ENDS</p> <p>6. ALL TIMBER COMPONENT TO BE VARNISHED WITH TWO COATS OF ACID CATALYSED LADOUER</p> <p>7. FIT ALL TIMBER COMPONENTS TO STEEL FRAME WITH APPROVED M5/M5 BOLTS AND MYLOCK NUTS DESK MUST COMPLY WITH SANS 880:2004 (Edition 3.2)</p>	No	140	
24	<p><u>HOD CHAIR (PG.41)</u></p> <p>1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG/M3; BACK MINIMUM 16KG/M3) AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD</p> <p>2. STACKABLE STEEL FRAME ASSEMBLY 22.23X1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS</p> <p>4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS</p> <p>5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME</p> <p>6. APPROVED ARM RESTS FITTED TO STEEL FRAME CHAIR TO COMPLY WITH SANS/SABS 1244:1979</p>	No	6	
Carried to Collection				R
Section 7: School Furniture Bill No. 1: School Furniture				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<p>25</p>	<p><u>STATIONARY CUPBOARD (PG.28)</u></p> <p>1. CARCASS (TOP, BOTTOM, DOORS, SIDES AND SHELVES) MANUFACTURING FROM 16MM DOUBLE MELAMINE FACED (NATURAL OAK) PARTICLE BOARD. ALL EDGES SEALED WITH MATCHING PVC EDGING.</p> <p>2. BACK (GROOVED AND GLUED IN) MANUFACTURED FROM 12MM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) PARTICLE BOARD</p> <p>3. APPROVED SOLID OAK CUP HANDLE</p> <p>4. APPROVED ADJUSTABLE FEET</p> <p>5. APPROVED CONCEALED HINGES CUPBOARD MUST COMPLY WITH SABS 1528-3:1992</p>	<p>No</p>	<p>1</p>	
<p>26</p>	<p><u>FILING CABINET (PG.39)</u></p> <p>1. TOP MELAMINE FACED (OAK) LAMINATE AND BALANCING BACKER LAMINATED TO A 32MM SUBSTRATE BOARD</p> <p>2. CARCASS (SIDES, BOTTOM,RAILS AND DRAWER FRONTS) (NATURAL OAK) 16MM PARTICLE BOARD EDGES SEALED WITH MATCHING PVC EDGING TOP EDGES AT LEAST 2MM THICK PVC EDGING.</p> <p>3. BACK MANUFACTURED FROM DOUBLE SIDED MELAMINE FACED (NATURAL OAK) 12MM PARTICLE BOARD</p> <p>4. APPROVED LOCKS</p> <p>5. DRAWER CARCASS MANUFACTURED FROM DOUBLE SIDED MELAMINE FACED 16MM PARTICLE BOARD, EDGES SEALED WITH MATCHING PVC EDGING, A4 POCKET FOLDERS MUST FIT IN DRAWER IN A HANGING POSITION</p> <p>6. APPROVED HANDLE AND METAL DRAWER RUNNERS CABINET MUST COMPLY WITH SABS 1528-3:1992</p>	<p>No</p>	<p>1</p>	
	<p>Carried to Collection</p>		<p>R</p>	
<p>Section 7: School Furniture Bill No. 1: School Furniture</p>				

CONTRACT/TENDER NO: RFP 347/2022

27	<p><u>8 SEATER TABLE (PG.16-750mm HIGH)</u></p> <ol style="list-style-type: none"> 1. ABLE TOP – 21MM SOLID SALIGNA HARDWOOD (Eucalyptus Grendles) 2. Ø 25X1.6MM TUBING STACKABLE STEEL FRAME WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH 3. DURABLE PLUGS FITTED TO ALL OPEN ENDS 4. PENCIL GROOVE 16X3MM 5. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF ACID CATALYSED LACCUER 6. FIT TOOP STEEL FRAME WITH APPROACHED SCREWS TABLE MUST COMPLY WITH SANS 660:2004 (Edition 3.2) 	No	1		
	<p><u>MEDIA CENTRE</u></p>				
	<p><u>LOWER BACK TYPIST CHAIR WITH 5-STAR BASE</u> <u>(Page 32)</u></p>				
28	<ol style="list-style-type: none"> 1. SEAT AND BACK APPROVED FOAM [SEAT (45MM THICK) MINIMUM 23KG/M3, BACK (25MM THICK) MINIMUM 16KG/M3] AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO ± 11MM SHAPED PLYWOOD SEAT AND BACK 2. SEAT FITTED WITH BOLTS & T-NUTS TO STEEL FRAME 3. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME 4. GAS HEIGHT ADJUSTABLE SPINDLE FIVE (5) STAR REINFORCE NYLON BASE WITH DURABLE CASTORS CHAIR TO COMPLY WITH SANS/SABS 1244;1979 	No	1		
	<p>Carried to Collection</p>			R	
	<p>Section 7: School Furniture Bill No. 1: School Furniture</p>				
	<p>CONTRACT/TENDER NO: RFP 347/2022</p>				

	<u>STACKABLE CHAIRS (PG.20)</u>				
29	1. SEAT INJECTION MOULDED POLYPROPYLENE COPOLYMER 2. STACKABLE STEEL FRAME Ø 19.05X1.6MM TUBING WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH 3. DURABLE FERRULES FITTED TO ALL LEG ENDS 4. FIT SEAT TO STEEL FRAME WITH APPROVED SCREWS. CHAIR MUST COMPLY WITH SANS 660:2004 (Edition 3.2)	No	40		
	<u>BOOKSHELVES (PG.36)</u>				
30	1. CARCASS (TOP,BOTTOM, SIDES AND ADJUSTABLE SHELVES) MANUFACTURED FROM 16MM SUBSTRATE VENEER BOARD (COLOUR TO MATCH ITEM IN FIG 13) ALL EDGES SEALED WITH MATCHING VENEER 2. DOOR FRAME ASSEMBLES, FIXED SHELF AND BASE MANUFACTURED FROM 21MM SOLID SALIGNA HARDWOOD (Eucalyptus Crendls) 3. BACK 3.2MM HARDBOARD 4. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF CATALYSED LACCUER BOOKSHELF MUST COMPLY WITH SABS:1528-3:1992	No	20		

<u>SCIENCE LABORATORY</u>					
<u>LAB CHAIR (PG.21)</u>					
31	1. Ø300MM POLYPROPYLENE COPOLYMER INJECTION MOULDED SEAT TO BE FITTED BY MEANS OF POP RIVETS (REF 2.1.8) 2. Ø25X1.6MM STEEL TUBING WITH BAKED POLYESTER/EPOXY LIGHT GREY POWDER COATING (REF 2.1.18/19) 3. Ø10MM STEEL ROD NYLON PLUGS TO ALL LEG ENDS (REF 2.1.20)	No	1		
<u>LAB CHAIRS (PG.22)</u>					
32	1. Ø300MM POLYPROPYLENE COPOLYMER INJECTION MOULDED SEAT TO BE FITTED BY MEANS OF POP RIVETS (REF 2.1.8) 2. Ø25X1.6MM STEEL TUBING WITH BAKED POLYESTER/EPOXY LIGHT GREY POWDER COATING (REF 2.1.18/19) 3. Ø10MM STEEL ROD NYLON PLUGS TO ALL LEG ENDS (REF 2.1.20)	No	40		
Carried to Collection				R	
Section 7: School Furniture Bill No. 1: School Furniture					
CONTRACT/TENDER NO: RFP 347/2022					

<u>DINING & NUTRITION CENTRE</u>					
<u>8 SEATER TABLE (PG.16-750mm HIGH)</u>					
33	1. ABLE TOP – 21MM SOLID SALIGNA HARDWOOD (Eucalyptus Grendles) 2. Ø 25X1.6MM TUBING STACKABLE STEEL FRAME WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH 3. DURABLE PLUGS FITTED TO ALL OPEN ENDS 4. PENCIL GROOVE 16X3MM 5. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF ACID CATALYSED LACCUER 6. FIT TOOP STEEL FRAME WITH APPROACHED SCREWS TABLE MUST COMPLY WITH SANS 660:2004 (Edition 3.2)	No	15		
<u>STACKABLE CHAIRS (PG.20)</u>					
34	1. SEAT INJECTION MOULDED POLYPROPYLENE COPOLYMER 2. STACKABLE STEEL FRAME Ø 19.05X1.6MM TUBING WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH 3. DURABLE FERRULES FITTED TO ALL LEG ENDS 4. FIT SEAT TO STEEL FRAME WITH APPROVED SCREWS. CHAIR MUST COMPLY WITH SANS 660:2004 (Edition 3.2)	No	120		
Carried to Collection				R	
Section 7: School Furniture Bill No. 1: School Furniture					
CONTRACT/TENDER NO: RFP 347/2022					

GRADE R CLASSROOMS				
TEACHER'S CHAIR (Page 25)				
35	<p>1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG) BACK MINIMUM 16KG) AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD</p> <p>2. STACKABLE STEEL FRAME ASSEMBLY: 22.23 X 1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH.</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS</p> <p>4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS</p> <p>5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME. CHAIR TO COMPLY WITH SANS/SABS 1244:1979</p>	No	2	
8 SEATER TABLE (PG.16-750mm HIGH)				
36	<p>1. ABLE TOP – 21MM SOLID SALIGNA HARDWOOD (Eucalyptus Grendles)</p> <p>2. Ø 25X1.6MM TUBING STACKABLE STEEL FRAME WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN ENDS</p> <p>4. PENCIL GROOVE 16X3MM</p> <p>5. ALL TIMBER COMPONENTS TO BE VARNISHED WITH TWO COATS OF ACID CATALYSED LACCUER</p> <p>6. FIT TOOP STEEL FRAME WITH APPROACHED SCREWS TABLE MUST COMPLY WITH SANS 660:2004 (Edition 3.2)</p>	No	8	
Carried to Collection				R
<p>Section 7: School Furniture</p> <p>Bill No. 1: School Furniture</p>				
CONTRACT/TENDER NO: RFP 347/2022				

	<u>STACKABLE CHAIRS (PG.20)</u>				
37	<p>1. SEAT INJECTION MOULDED POLYPROPYLENE COPOLYMER</p> <p>2. STACKABLE STEEL FRAME Ø 19.05X1.6MM TUBING WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH</p> <p>3. DURABLE FERRULES FITTED TO ALL LEG ENDS</p> <p>4. FIT SEAT TO STEEL FRAME WITH APPROVED SCREWS. CHAIR MUST COMPLY WITH SANS 660:2004 (Edition 3.2)</p>	No 60			
	<u>SICK ROOM CHAIR (PG.42)</u>				
38	<p>1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG/M3; BACK MINIMUM 16KG/M3) AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD</p> <p>2. STACKABLE STEEL FRAME ASSEMBLY 22.23X1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS</p> <p>4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS</p> <p>5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME</p> <p>6. APPROVED ARM RESTS FITTED TO STEEL FRAME CHAIR TO COMPLY WITH SANS/SABS 1244:1979</p>	No 2			
	<u>STEEL FRAME SINGLE BED (PG.30)</u>				
39	STEEL FRAME SINGLE BED INCLUDING 191CM X 91CM X 15CM MATTRESS	No 2			
	Carried to Collection			R	
Section 7: School Furniture Bill No. 1: School Furniture					
	CONTRACT/TENDER NO: RFP 347/2022				

<u>MULTIPURPOSE CLASSROOM</u>					
<u>TEACHER'S CHAIR (Page 25)</u>					
40	<p>1. SEAT AND BACK APPROVED FOAM (SEAT MINIMUM 23KG) BACK MINIMUM 16KG) AND UPHOLSTERY (100% POLYPROPYLENE – CONTRACT QUALITY) FOAM TO BE GLUED ONTO 16MM PARTICLE BOARD</p> <p>2. STACKABLE STEEL FRAME ASSEMBLY: 22.23 X 1.2MM SQUARE TUBING WITH BAKED BLACK EPOXY/POLYESTER POWDER COATING FINISH.</p> <p>3. DURABLE PLUGS FITTED TO ALL OPEN STEEL ENDS</p> <p>4. SEAT FITTED TO STEEL FRAME WITH APPROVED SCREWS</p> <p>5. BACK FITTED WITH BOLTS & T-NUTS TO STEEL FRAME. CHAIR TO COMPLY WITH SANS/SABS 1244:1979</p>	No	1		
<u>STACKABLE CHAIRS (PG.20)</u>					
41	<p>1. SEAT INJECTION MOULDED POLYPROPYLENE COPOLYMER</p> <p>2. STACKABLE STEEL FRAME Ø 19.05X1.6MM TUBING WITH BAKED LIGHT GREY EPOXY/POLYESTER POWDER COATING FINISH</p> <p>3. DURABLE FERRULES FITTED TO ALL LEG ENDS</p> <p>4. FIT SEAT TO STEEL FRAME WITH APPROVED SCREWS. CHAIR MUST COMPLY WITH SANS 660:2004 (Edition 3.2)</p>	No	40		
<u>STACKABLE DOUBLE TABLES (PG.10)</u>					
42	DOUBLE PRIMARY STACKABLE TABLE GRADE 4-6	No	20		
Carried to Collection				R	
<p>Section 7: School Furniture</p> <p>Bill No. 1: School Furniture</p>					
CONTRACT/TENDER NO: RFP 347/2022					

COLLECTION		Page No	Amount
Total Brought Forward from Page No.		303	
		304	
		305	
		306	
		307	
		308	
		309	
		310	
		311	
		312	
		313	
		314	
		315	
		316	
		317	
		318	
		319	
		320	
		321	
		322	
		323	
		324	
Carried to Final Summary			R
Section 7: School Furniture Bill No. 1: School Furniture			
CONTRACT/TENDER NO: RFP 347/2022			

Item No		Quantity	Rate	Amount
	<p><u>SECTION 8</u></p> <p><u>BILL NO. 1: PROVISIONAL AMOUNTS</u></p> <p>NOTE: The contractor advised to study the Model Preambles for Trades before pricing this bill</p> <p>NOTE: Tenderers are referred to the relevant clauses in the separate documents; General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013 before pricing this bill</p> <p><u>SELECTED SUBCONTRACTORS</u></p> <p>The following Provisional Amounts are for specialist work to be executed by a selected sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a selected sub-contractor.</p> <p>A selected sub-contractor shall be a contractor executing work for which a sum of money is provided for in the bills of quantities or a sub-contractor executing additional work specialist work which arises as a result of an instruction by the representative/agent.</p> <p>Tender documents for such work shall be prepared by the representative/agent in consultation with and to the approval of the contractor. Tenders shall be called for from a list of tenderers agreed between the contractor and the Principal Agent. Tenders shall be submitted to the representative/agent for adjudication.</p> <p>The selected sub-contractor shall be chosen by the representative/agent and the contractor, and the contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the sub-contract agreement and the contractor shall inform the representative/agent accordingly. The contractor shall appoint such selected sub-contractor and inform the principal agent accordingly.</p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section 8: Provisional Sums Bill No.1: Provisional Sums (Provisional)</p>			
	<p style="text-align: right;">CONTRACT/TENDER NO: RFP 347/2022</p>			

EMIS NUMBER: 600102163

-327-

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>Graduates Allowance</u>				
7	Provide an amount of R 750 000.00 (Seven Hundred and Fifty Thousand Rand) for Four number of Local Graduates Training to be omitted in part or whole as instructed by Principal Agent	Item		750 000.00
8	Add for profit	Item		
9	Add for general attendance on sub-contractor	Item		
<u>BUDGETARY ALLOWANCES FOR MAIN CONTRACTOR, NOMINATED/SELECTED SUBCONTRACT WORKS</u>				
<u>RELOCATION OF EXISTING PREFAB</u>				
<u>Relocation of existing facilities as per Directive:</u>				
10	Budget for relocation of mobile classrooms and Admin	Item		250 000.00
<u>BUDGETARY ALLOWANCES</u>				
<u>Post Tender Escalation</u>				
11	Provision for Post - Tender Escalation (Construction stage). CPAP shall only be applicable to works that progress to later than twelve (12) months from commencement date as per SCC 42.4.6	Item		2 800 000.00
Carried to Collection			R	
Section 8: Provisional Sums Bill No.1: Provisional Sums (Provisional)				
CONTRACT/TENDER NO: RFP 347/2022				

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

<u>COLLECTION</u>	Page No	Amount
Total Brought Forward from Page No.	326	
	327	
	328	
Carried to Final Summary	R	
Section 8: Provisional Sums Bill No.1: Provisional Sums (Provisional)		
CONTRACT/TENDER NO: RFP 347/2022		

BILLS OF QUANTITIES FOR NEW GA-MALOKA PRIMARY SCHOOL.
EMIS NUMBER: 600102163

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	Section 2: Preliminaries and Generals	54		
2	Section 3: Building Works	184		
3	Section 4: External Works (Provisional)	239		
4	Section 5: Electrical & Electronic Works	259		
5	Section 6: Mechanical & Firefighting Works	302		
6	Section 7: School Furniture	325		
7	Section 8: Provisional Sums	329		
	SUB-TOTAL		R	
	<u>CONTINGENCIES</u>			
	<u>Contingency</u>			
	Allow an amount of R 2 400 000-00 (Two Million, Four Hundred Thousand Rand) for Contingencies for unforeseen items to be authorized and deducted in part or whole if not required.			
		Item		2 400 000.00
	SUB-TOTAL		R	
	Provision for Value-Added Tax (VAT) at 15 percent		R	
	Carried to Form of Tender		R	
	CONTRACT/TENDER NO: RFP 347/2022			