SECTION 1

PRELIMINARIES

MEANING OF TERMS "TENDER / TENDERER"

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"

PRELIMINARIES

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"

The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities

Contractor's are referred to the abovementioned documents for the full intent and meaning of each clause thereof

These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents

Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"

PREAMBLES FOR TRADES

The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be

Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

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

PRICING OF PRELIMINARIES

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

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT DEFINITIONS 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: 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 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 Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with 'prepaid registered post or telefax" Clause 1.6.4 is amended by replacing it with the following: No clause Value related: Time related: Item **OBJECTIVE AND PREPARATION** A2.0 OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0 Value related: Time related:

Item

Fixed:

A3.0	DOCUMENTS Clause 3.0	
	Clause 3.2.1 is amended by replacing "14.1" with "14.0"	
	Clause 3.7 is amended by the addition of the following:	
	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site , to which the employer principal agent and agents shall have access at all times	
	Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"	
	Fixed:Value related:Time related: Item	
A4.0	DESIGN RESPONSIBILITY	
	Clause 4.0	
	Clause 4.3 is amended by replacing it with the following: No clause	
	Fixed:Value related:Time related: Item	
A5.0	EMPLOYER'S AGENTS	
	Clause 5.0	
	Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8	
	Fixed:Value related:Time related: Item	
A6.0	CONTRACTOR'S SITE REPRESENTATIVE	
	Clause 6.0	
	Fixed:Value related:Time related: Item	
A7.0	COMPLIANCE WITH LAWS AND REGULATIONS	
	Clause 7.0	
	Without limiting the generality of the provisions of Clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993 and Part C6.0 (Annexure C) of this tender document. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification	
	Fixed:Value related:Time related: Item	
A8.0	WORKS RISK	
	Clause 8.0	
	Fixed:Value related:Time related:	
A9.0	INDEMNITIES	
	Clause 9.0	
	Fixed:Value related:Time related: Item	
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A10.0 WORKS INSURANCES

Clause 10.0

Clause 10.0 is amended by the addition of the following clauses:

10.5 Damage to the Works

- (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary.
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (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**
- (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

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

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	Fixed:	_Value related:	Time related:	ltem			
A11.0	LIABILITY INSURA Clause 11.0	NCES					
	Fixed:	_ Value related:	Time related:				
A12.0	EFFECTING INSUI Clause 12.0 Fixed:		Time related:	ltem Item			
A13.0	No clause			item			
A14.0	SECURITY Clause 14.0 Clauses 14.1 - 14.8	are amended by replacir	ng them with the following:				
	14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided						

- by the **contractor** to the **employer** will be a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)
- 14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)
- 14.1.2 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 **security** or portions thereof to the **contractor**
- 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**
- 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
- 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**

	6.3 The paymen fandi in terms o		certified in a payment certific	cate shall be <i>mutatis</i>	
em		ue a written notice in ter	recovery against the contract ms of 33.4 or may recover fron		
		ity as a payment reductite (excluding VAT) has l	on of ten per cent (10%) of the been selected:	e value certified in the	
	7.1 The paymentandi in terms of		certified in a payment certific	cate shall be <i>mutatis</i>	
in te	erms of 33.0 pro employer's ent	ovided that the employe	ecover expense and loss from romplies with the provisions edence over his obligations to ctor	of 33.4 in which event	
con	•		ne employer in terms of the fix te the rights of the employer o		
sole sele	e discretion and ected form of se	without notification to tecurity to that of a ten p	the security in terms of 14.3 the contractor , is entitled to cler cent (10%) payment reduction), whereafter 14.7 shall be app	hange the contractor's ion of the value certified	
Fixe	ed:	Value related:	Time related:		
	ECUTION EPARATION FO	OR AND EXECUTION (OF THE WORKS	ltem	
Cla	use 15.0				
Cla	use 15.1.1 is an	mended by replacing it w	vith:		
No	clause				
Cla	use 15.1.2 is an	nended by replacing it w	ith:		
The	security selec	ted in terms of 14.0			
Cla	use 15.1 is ame	ended by the addition of	the following clause:		
	ety Act, 1993 (A	, ,	n, required in terms of the Occ venty-one (21) calendar days	•	
Give	e the contracto	,	vith the following clause: within ten (10) working days	s of the contractor	
Fixe	ed:	Value related:	Time related:		
				Item	
SIT	E AND ACCES	s			
Cla	use 16.0				
Fixe	ed:	Value related:	Time related:		
co	NTRACT INSTI	RUCTIONS		ltem	
Class	17.0				
	use 17.0				
sele	ected subcontr	ractors"	the words "and the appointm		
FIXE	eu:	value related:	Time related:	 Item	
SET	TTING OUT OF	THE WORKS			
Cla	use 18.0				
The build may	contractor shaldings, structured to the made for the	s, pavements, boundari ne rectification of any su		ecessary arrangements	
Fixe	ed:	Value related:	Time related:	 Item	
				ILEIII	1

A19.0	ASSIGNMENT				
	Clause 19.0				
	Fixed:	Value related:	Time related:	Item	
				item	
A20.0	NOMINATED SU	JBCONTRACTORS			
	Clause 20.0				
	Clause 20.1.3 is	amended by replacing it wi	th the following:		
	No clause				
		9.1 hereinafter for adjustm llowed for under provisiona	ent of attendance on nominated s I sums	ubcontractors	
	Fixed:	Value related:	Time related:	Item	
A21.0	SELECTED SUE	BCONTRACTORS			
	Clause 21.0				
	Clause 21 is ame	ended by replacing it with:			
	No clause				
	Fixed:	Value related:	Time related:	Item	
A22.0	EMPLOYER'S D	IRECT CONTRACTORS			
	Clause 22.0				
	Fixed:	Value related:	Time related:	_	
				Item	
	CONTRACTOR	O DOMESTIC SUBSCINE	A OTOBO		
A23.0	Clause 23.0	S DOMESTIC SUBCONT			
	Fixed:	Value related:	Time related:	Item	
				item	
	COMPLETION				
24.0	PRACTICAL CO	MPLETION			
	Clause 24.0 Fixed:	Value related:	Time related:		
				Item	
25.0	WORKS COMPL Clause 25.0	ETION			
	Fixed:	Value related:	Time related:		
				Item	
26.0	FINAL COMPLE	TION			
	Clause 26.0 Clause 26.1.2 is	amended by inserting "#" n	ext to 26.1.2		
			Time related:		
				Item	
27.0		TS LIABILITY PERIOD			
	Clause 27.0 Fixed:	Value related:	Time related:		
				Item	
A28.0	SECTIONAL CO	MPLETION			
	Clause 28.0		Time 1.1.1		
	rixed:	value related:	Time related:	Item	

A29.0	REVISION OF DA	TE FOR PRACTICAL CO	OMPLETION						
	The removal and re specification or dra								
	nor the adjustment								
	Fixed:	Value related:	Time related:	 Item					
A30.0	PENALTY FOR NO	ON-COMPLETION							
		Value related:	Time related:	 Item					
	PAYMENT								
A31.0	INTERIM PAYMEN	NT TO THE CONTRACT	OR						
	Clause 31.0								
	site in the amount of the Principal Age	authorized for payment ir ent and such inclusion sh oproved guarantee issued	31) The inclusion of materials a terms of Clause 31.4 shall be all only be considered upon the d by a registered commercial be	e at the sole discretion ne provision, by the					
	Clause 31.5.2 is ar	mended by replacing "14.	7.1" with "14.0"						
	Clause 31.8 is ame	ended by replacing it with	the following two alternative of	slauses:					
	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 the date of practic		n value in interim payment ce	rtificates issued up to					
			uch value in interim payment but excluding the date of fina						
	` '	. , ,	th value in interim payment ce excluding the final payment c o						
	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								
	the works in terms	of 31.4.1 and materials	ction in terms of 14.7 has bee and goods in terms of 31.4.2 he following percentage adjus	shall be certified in					
	31.8(B).1 Ninety pedate of practical c	, ,	ue in interim payment certific	ates issued up to the					
	. , ,	. ,	uch value in interim payment but excluding the date of fina						
		. ,	ch value in interim payment ce excluding the final payment c o						

ertificate					
lause 31.12 is a	amended by deleting the fo	ollowing:			
Payment shall be	e subject to the employer	giving the contractor at	tax invoice for the am	ount	
lue		gg and constactor and			
ixed:	Value related:	Time related:			
				Item	
ADJUSTMENT	TO THE CONTRACT VAL	.UE			
Clause 32.0					
	costs, with the exception	of fluctuations in the rate	e of Value Added Tax	, shall	
Clauses 32.5.1,	nt of the contractor. 32.5.4 and 32.5.7 are ame	ended by the addition of	the following at the e	nd of the	
sentence:					
	of the contractor " Value related:	Time related:			
			 -	Item	
RECOVERY OF	EXPENSE AND LOSS				
Clause 33.0					
	Value related:	Time related:			
				Item	
FINAL ACCOUN Clause 34.0	IT AND FINAL PAYMENT	г			
Sidd50 04.0					
	mended by removing "#" n mended by inserting "#" ne				
Clause 34.2 is ar Clause 34.8 is ar	mended by inserting "#" ne mended by deleting the wo	ext to 34.2 ords "where security as a		aliad in	
Clause 34.2 is aı Clause 34.8 is aı guarantee in ter	mended by inserting "#" ne	ext to 34.2 ords "where security as a		olied in	
Clause 34.2 is an Clause 34.8 is an guarantee in ter terms of 14.7.1"	mended by inserting "#" ne mended by deleting the wo ms of 14.4 has been selec	ext to 34.2 ords "where security as a oted or where payment re	eduction has been app	olied in	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days"	mended by inserting "#" ne mended by deleting the wo ms of 14.4 has been select amended by replacing "sev and deleting the words "su	ext to 34.2 ords "where security as a cted or where payment re oven (7) calendar days " v	eduction has been appoint with "twenty-one (21)		
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Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar	mended by inserting "#" ne mended by deleting the wo ms of 14.4 has been select amended by replacing "sev and deleting the words "su mount due"	ext to 34.2 ords "where security as a cted or where payment re- even (7) calendar days" wen to the employer gi	eduction has been apply with "twenty-one (21) ving the contractor a		
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed:	mended by inserting "#" ne mended by deleting the wo ms of 14.4 has been select amended by replacing "sev and deleting the words "su mount due"	ext to 34.2 ords "where security as a cted or where payment re- even (7) calendar days" wen to the employer gi	eduction has been apply with "twenty-one (21) ving the contractor a	a tax	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed: PAYMENT TO Clause 35.0	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "sevand deleting the words "sumount due" Value related: OTHER PARTIES	ext to 34.2 ords "where security as a cted or where payment re- even (7) calendar days" wen to the employer gi	eduction has been apply with "twenty-one (21) ving the contractor a	a tax	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed: PAYMENT TO Clause 35.0	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "sevand deleting the words "sumount due" Value related: OTHER PARTIES	ext to 34.2 ords "where security as a steed or where payment reven (7) calendar days " which is to the employer gitting to the employer gitting Time related:	eduction has been apply with "twenty-one (21) ving the contractor a	a tax	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed: PAYMENT TO Clause 35.0 Fixed:	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "sevent and deleting the words "sumount due" Value related: Value related: Value related:	ext to 34.2 ords "where security as a steed or where payment reven (7) calendar days " which is to the employer gitting to the employer gitting Time related:	eduction has been apply with "twenty-one (21) ving the contractor a	a tax Item	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed: PAYMENT TO Clause 35.0 Fixed: CANCELLATION	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "sevent and deleting the words "sumount due" Value related: Value related: Value related:	ext to 34.2 ords "where security as a steed or where payment reven (7) calendar days" which is to the employer git and a steed to the employer git are related: Time related:	eduction has been appeared with "twenty-one (21) ving the contractor a	a tax Item	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed: PAYMENT TO Clause 35.0 Fixed: CANCELLATION CLAUSE 36.0 CANCELLATION CLAUSE 36.0	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "sevand deleting the words "sumount due" Value related: Value related: Value related:	ext to 34.2 ords "where security as a steed or where payment reven (7) calendar days" white to the employer git and a steed in the related: Time related: Time related:	eduction has been appeared with "twenty-one (21) ving the contractor a	a tax Item	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is an calendar days in an	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "sevand deleting the words "sumount due" Value related: Value related: N N BY EMPLOYER – CON	ext to 34.2 ords "where security as a steed or where payment reven (7) calendar days" white to the employer git and the related: Time related: Tractor's Default the following clauses:	eduction has been appointment with "twenty-one (21) ving the contractor a	a tax Item	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the arrived: PAYMENT TO Clause 35.0 Fixed: CANCELLATION CLAUSE 36.0 Clause 36.0 Clause 36.1 is an 36.1.3 refuses on	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "severand deleting the words "sumount due" Value related: Value related: N N BY EMPLOYER - CON mended by the addition of r neglects to comply strictly	ext to 34.2 ords "where security as a steed or where payment rested or where related: Time related: Tractor's Default the following clauses: y with any of the condition	eduction has been apply with "twenty-one (21) ving the contractor a	a tax Item Item	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the arrived: PAYMENT TO Clause 35.0 Fixed: CANCELLATION CLAUSE 36.0 Clause 36.0 Clause 36.1 is an 36.1.3 refuses on 36.1.4 estate bei	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "sevand deleting the words "sumount due" Value related: Value related: N N BY EMPLOYER – CON	ext to 34.2 ords "where security as a steed or where payment rested or where related: Time related: Tractor's Default the following clauses: y with any of the condition	eduction has been apply with "twenty-one (21) ving the contractor a	a tax Item Item	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the arrived: PAYMENT TO Clause 35.0 Fixed: CANCELLATION Clause 36.0 Clause 36.1 is an 36.1.3 refuses on 36.1.4 estate beiforce within the F	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "severand deleting the words "sumount due" Value related: Value related: N N BY EMPLOYER – CON mended by the addition of reglects to comply strictly ng sequestrated, liquidate	ext to 34.2 ords "where security as a steed or where payment reven (7) calendar days" white to the employer git and the related: Time related: Tractor's DEFAULT the following clauses: y with any of the condition d or surrendered in terms	with "twenty-one (21) ving the contractor and the contractor and the contractor and the contractor and	a tax Item Item	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed: PAYMENT TO Clause 35.0 Fixed: CANCELLATION Clause 36.0 Clause 36.1 is an 36.1.3 refuses on 36.1.4 estate beiforce within the Fixed: Gampeting for or Clause 36.3 is an	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "severand deleting the words "sumount due" Value related: OTHER PARTIES Value related: N N BY EMPLOYER – CON mended by the addition of reglects to comply strictly and sequestrated, liquidate Republic of South Africa gement of the employer, he mended by the employer, he manded by the employer of the employer, he manded by the employer of the employer.	ext to 34.2 ords "where security as a steed or where payment rested or the employer git and the related: Time related: Tractor's default the following clauses: y with any of the condition of or surrendered in terminals engaged in corrupt of the condition of the co	eduction has been apply with "twenty-one (21) ving the contractor at the contractor at the contract soft the insolvency laws or fraudulent practice.	a tax Item Item ws in	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is an calendar days" invoice for the arrived: PAYMENT TO Clause 35.0 Fixed: CANCELLATION Clause 36.0 Clause 36.1 is an 36.1.3 refuses on 36.1.4 estate being force within the Fascompeting for or clause 36.3 is an inprincipal agent	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "severand deleting the words "sumount due" Value related: OTHER PARTIES Value related: N N BY EMPLOYER – CON mended by the addition of a neglects to comply strictly and sequestrated, liquidate Republic of South Africa gement of the employer, in executing the contract mended by removing the removed the removement of the mended by removing the removed the sequestrated and the removement of the employer, in executing the contract mended by removing the removed the sequestrated and the removement of the employer, in executing the contract mended by removing the removed the sequestrated and the sequestrated and the sequestrated are sequestrated.	ext to 34.2 ords "where security as a steed or where payment rested or surrendered in terms as engaged in corrupt of the condition	eduction has been apply with "twenty-one (21) ving the contractor at the contractor at the contract soft the insolvency laws or fraudulent practice.	a tax Item Item ws in	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is an calendar days" invoice for the arrived: PAYMENT TO Clause 35.0 Fixed: CANCELLATION Clause 36.0 Clause 36.1 is an	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "severand deleting the words "sumount due" Value related: OTHER PARTIES Value related: N N BY EMPLOYER – CON mended by the addition of a reglects to comply strictly and sequestrated, liquidate Republic of South Africa gement of the employer, in executing the contract mended by removing the retrieval to the mended by the addition of a mended by the addition and a mended by the addition a mended by the addition and a mended by	ext to 34.2 ords "where security as a steed or where payment rested in the second of the condition of the	with "twenty-one (21) ving the contractor a management either and replacing the work agreement either either agreement either eith	a tax Item Item ws in es in ds	
Clause 34.2 is an Clause 34.8 is an guarantee in terterms of 14.7.1" Clause 34.13 is a calendar days" invoice for the ar Fixed: PAYMENT TO Clause 35.0 Fixed: CANCELLATION CANCELLATION Clause 36.0 Clause 36.1 is an 36.1.3 refuses on 36.1.4 estate beinforce within the Fixed instruction, discontractor shall	mended by inserting "#" nemended by deleting the woms of 14.4 has been selected amended by replacing "severand deleting the words "sumount due" Value related: OTHER PARTIES Value related: N N BY EMPLOYER – CON mended by the addition of a neglects to comply strictly and sequestrated, liquidate Republic of South Africa gement of the employer, he in executing the contract mended by removing the retrieval to the mended by the addition of the mended by the addition of the employer. The mended by the addition of the employer the employer the mended by the addition of the employer the employ	ext to 34.2 ords "where security as a steed or where payment received (7) calendar days" with the following clauses: y with any of the condition of or surrendered in terms has engaged in corrupt of the following clause: the following clause: the following clause: at the following clause: the following clause: at the follo	with "twenty-one (21) ving the contractor and replacing the work and	Item Item ws in es in ds er by the in written ite. The	

.0 CANCELLATION Clause 37.0	ON BY EMPLOYER - LOSS	S AND DAMAGE		
	s amended by replacing "nir	nety (90)" with "one-hundred and twenty	(120)"	
Clause 37.0 is	amended by the addition of	the following clause:		
employer or th instruction, disc contractor sha	e contractor ; or for any reacontinue with the works on a	trary, on cancellation of this agreement son whatsoever, the contractor shall of a date stated and withdraw himself from a withdraw from the works on the ground y other right whatsoever	on written the site . The	
Fixed:	Value related:	Time related:		
			Item	
CANCELLATIO	ON BY CONTRACTOR - EI	MPLOYER'S DEFAULT		
Clause 38.0				
Clause 38.5.4 i	s amended by replacing "nir	nety (90)" with "one-hundred and twenty	(120)"	
Clause 38.0 is	amended by the addition of	the following clause:		
employer or th instruction, disc contractor sha	e contractor ; or for any reacontinue with the works on a	trary, on cancellation of this agreement son whatsoever, the contractor shall o a date stated and withdraw himself from withdraw from the works on the groun y other right whatsoever	on written the site . The	
Fixed:	Value related:	Time related:		
			ltem	
CANCELLATIO	ON – CESSATION OF THE	WORKS		
Clause 39.0 Clause 39.3.5 i	s amended by the addition o	of the following at the end of the sentend	ce:	
"within one hun	dred and twenty (120) work	ing days of completion of such a repor	ť"	
Fixed:	Value related:	Time related:		
			Item	
DISPUTE				
DISPUTE SET	TLEMENT			
Clause 40.0				
Clause 40.2.2 i	s amended by replacing "on	e (1) year" with "three (3) years"		
Clause 40.6 is	amended by removing the re	eference to:		
No clause				
Clause 40.7.1 is	s amended by replacing "(10))" with "(15)" and by the addition of the	following:	
	•	ute, the parties shall bear their own cos of the mediator and related costs	sts concerning	
Fixed:	Value related:	Time related:		
			Item	
SUBSTITUTE	PROVISIONS			
STATE CLAUS	SES			
Clause 41.0	Value related	Time related:		
Fixed:	Value related:	rime related:	Item	
CONTRACT V	ARIABLES			
THE SCHEDU	LE (DPW-04EC)			
Clause 42.0				
	referred to the Contract Data	a DPW-04(EC) for variables pertaining	to this contract	
Fixed·	Value related:	Time related:		
I IAGU	value l'elateu	Time related	Item	

	SECTION B: JBCC	PRELIMINARIES			
B1.0	DEFINITIONS AND I	INTERPRETATION			
B1.1	Definitions and inte	rpretation			
	See also clause A1.0 equally to this Section		nd/or amended definitions which	n shall apply	
	Fixed:	Value related:	Time related:	Item	
B2.0	DOCUMENTS			item	
B2.1	Checking of docum	ents			
	Fixed:	Value related:	_ Time related:	ltem	
B2.2	Provisional bills of	quantities			
			_ Time related:	ltem	
B2.3	Availability of cons	truction documentation		 .	
D2.0			Time related:	Item	
DO 4				item	
B2.4	Interests of agents Fixed:	Value related:	Time related:		
				ltem	
B2.5	Priced documents Fixed:	Value related:	_Time related:		
				Item	
B2.6	Tender submission Clause 2.6 is amende Acceptance DPW-07	ed by replacing "JBCC Form	of Tender" with "Form of Offer a	and	
	Fixed:	Value related:	Time related:	Item	
B3.0	THE SITE				
B3.1	Defined works area				
			_ Time related:	ltem	
B3.2	Geotechnical invest	tigation		 .	
50.2		Value related:	_ Time related:	Item	
D2 2	luonostion of the ci	4-		item	
B3.3	Inspection of the si		_Time related:	M	
B3.4	Existing premises of			Item	
	Fixed:	value related:	_ Time related:	Item	
B3.5	Previous work – din	mensional accuracy			
	Fixed:	Value related:	_ Time related:	Item	
B3.6	Previous work – dei				
	Fixed:	Value related:	_ Time related:	Item	
B3.7	Services – known				
		Value related:	Time related:	Item	
B3.8	Services – unknowi	2			
20.0		Value related:	Time related:	Item	
				item	

B3.9	Protection of trees		Time related:	ltem		
B3.10	Articles of value					
	Fixed:	_ Value related:	Time related:	Item		
B3.11	Inspection of adjoint	ining properties _ Value related:	Time related:	 Item		
B4.0	MANAGEMENT OF	CONTRACT				
B4.1	Management of the Fixed:		Time related:	 Item		
B4.2	Programme for the Fixed:	e works Value related:	Time related:	ltem		
B4.3	Progress meetings	_		item		
D4.3			Time related:	ltem		
B4.4	Technical meeting. Fixed:		Time related:	 Item		
B4.5	Labour and plant r Fixed:		Time related:	 Item		
B5.0	SAMPLES, SHOP I	DRAWINGS AND MAN	UFACTURERS' INSTRUCTIONS	5		
B5.1	Samples of material		Time related:	Item		
B5.2	Workmanship sam Fixed:	aples _ Value related:	Time related:	 Item		
B5.3	Shop drawings					
	Fixed:	Value related:	Time related:	ltem		
B5.4	Compliance with n	nanufacturers' instruc _ Value related:	tionsTime related:	 Item		
B6.0		nd plant (Clause 19) Th	e contractor shall provide, mainta d by the contractor for the due an			
B6.1	Deposits and fees Fixed:	Value related:	Time related:	ltem		
B6.2	Enclosure of the w		Time related:	ltem		
B6.3	Advertising	Value related:	Time related:			
	IAGU	_ value i clated	rime related	ltem		
B6.4	Plant, equipment, s Fixed:	sheds and offices Value related:	Time related:	 Item		
					į l	

B6.5	Main notice board	Value related:	Time related:		
				Item	
B6.6	Subcontractors' no	tice board			
	Fixed:	Value related:	Time related:	ltem	
B7.0	TEMPORARY SERV	VICES			
B7.1	Location Fixed:	Value related:	_ Time related:	ltem	
B7.2	Water Fixed:	Value related:	_ Time related:	ltem	
B7.3	Electricity Fixed:	Value related:	_ Time related:	ltem	
B7.4	Telecommunication	n facilities			
	Fixed:	Value related:	Time related:	ltem	
B7.5	Ablution facilities Fixed:	Value related:	Time related:	ltem	
B8.0	PRIME COST AMOU	JNTS			
B8.1	Responsibility for p	orime cost amounts			
	Fixed:	Value related:	_ Time related:	ltem	
B9.0	ATTENDANCE ON N	N/S SUBCONTRACTORS			
B9.1	General attendance Fixed:		_ Time related:	ltem	
B9.2	Special attendance Fixed:		_ Time related:	ltem	
B9.3	Commissioning – fo	uel, water and electricity			
	Fixed:	Value related:	_ Time related:	Item	
B10.0	FINANCIAL ASPEC	тѕ			
B10.1	Statutory taxes, dut Fixed:		_ Time related:	ltem	
B10.2	Payment for preliming Fixed:		_ Time related:	ltem	
B10.3	Adjustment of preli	minaries			
	taking possession of document"	the site " with "when submitti	olacing "within fifteen (15) worl ng his priced bills of quantitie		
	Fixed:	_Value related:	_ Time related:	Item	
B10.4	Payment certificate	cash flow			
	Fixed:	Value related:	_Time related:	Item	
B11.0	GENERAL				
B11.1	Protection of the we	orks			

	Fixed:	Value related:	Time related:			
				lte	em	
B11.2	Protection / icolati	ion of existing / section	ally occupied works			
שווע.			Time related:			
					em	
	1					
B11.3	Security of the wo					
	Fixed:	Value related:	Time related:			
				Ite	em	
B11.4	Notice before cove	erina work				
511.7			Time related:			
					em	
B11.5	Disturbance					
	Fixed:	Value related:	Time related:			
				Ite	em	
B11.6	Environmental dis	turhance				
ט.ווע.			Time related:			
					em	
	1					
B11.7	Works cleaning an	nd clearing				
	Fixed:	Value related:	Time related:			
				lte	em	
D11 0	Vormin					
B11.8	Vermin Fixed:	Value related:	Time related:			
	i ixeu	value relateu	rime relateu		em	
				ite		
B11.9	Overhand work					
-		Value related:	Time related:			
					em	
D44.4=]					
B11.10	Instruction manua	Ils and guarantees Value related:	Timo related			
	rixea:	value related:	i ime related:	lte.	em	
				ite		
B11.11	As built information					
			Time related:			
	I				em	
- 44 : -						
B11.12	Tenant installation		Time a malaka di			
	rixea:	value related:	Time related:		em	
B12.0	SCHEDULE OF VA	ARIABLES		πε	z111	
B12.0 B12.1	Schedule of variab					
			Time related:			
				lte	em	
	L					
			d to in this document and is	•		
			category must be complete		1	
	Preliminaries	its. Both the pre-tender a	and post-tender categories t	onn part of these		
	Spaces requiring in	formation must be filled:	n chown as "not applicable"	or doloted and not let	.	
			n, shown as "not applicable' pplicable items are to be de		ι	
		•	pplicable items are to be de i should be annexed hereto		to	
			cross reference clauses are			
					-	
10.1	DDE TENDED INC	ODMATION				
12.1 12.1.1	PRE-TENDER INFO					
12.1.1 <i>[</i> 2.2]	Provisional bills of The quantities are p	-		(yes/no)	NO	
[4.4]	The quantities are p	orovisional		(yes/110)	140	
12.1.2	Availability of con	struction documentation	on			
[2.3]	1	nentation is complete	·	(yes/no)	NO	
	3			(3 000)		

12.1.3 <i>[</i> 2. <i>4</i>]	<i>Interests of agents – N/A</i> Details:			
[=]				
12.1.4 [3.1]	Defined works area Details: The area of the works shall be as directed by the Principal Agent of	on site.		
12.1.5 <i>[</i> 3.2 <i>]</i>	Geotechnical investigation – N/A Details:			
12.1.6 <i>[3.4]</i>	Existing premises occupied Specific requirements: Tenderers are to note that the existing school is in and further, that no disturbance and/or interference with school activities w tolerated.			
12.1.7 [3.5]	Previous work – dimensional accuracy Details: The Contractor shall be responsible for checking all dimensions of and components thereof. Should any discrepancy be found, this should import to the attention of the Principal Agent.			
12.1.8 <i>[</i> 3.6 <i>]</i>	Previous work – defects Details: Should any defects in existing work be encountered, the Contracto Immediately notify the Principal Agent.	r shall		
12.1.9 <i>[</i> 3.7 <i>]</i>	Services – known Details: The Contractor shall take all reasonable steps to avoid the interfer disturbance of existing services on site.	ence with or		
12.1.10 <i>[</i> 3.9 <i>]</i>	Protection of trees – N/A Specific requirements:			
12.1.11 <i>[</i> 3.11 <i>]</i>	Inspection of adjoining properties Specific requirements: All adjoining properties contiguous to the works sha inspected for existing defects and/or damage and all such defects/damage immediately be brought to the attention of the Principal Agent.			
12.1.12 [6.2]	Enclosure of the works Specific requirements: The Contractor shall ensure that all working areas a enclosed at all times in terms of the OHS Act and Construction Regulations satisfaction of the Principal Agent.			
12.1.13 [6.4.3]	Offices Specific requirements: The contractor shall provide, maintain and remove on completion of the wexclusive use of the principal agent, minimum size 4 x 3 x 3m high international ventilated, provided with electric lighting and fitted with boarded floor, a stool, drawing board and lock-up drawers for drawings. The office shall be use at all times	ally, suitably insulated desk, chair, drawing		
12.1.14 [6.5]	Main notice board Specific requirements:			
	The contractor shall provide, erect where directed, maintain and remove works a notice board size 3 x 3m as type Drawing GEN 063, constructed of with flat smooth surface and with edging bead 19mm thick round outer edge 12mm from face of boarding and rounded on front edge. The board shall be hoarding, where hoarding is provided, or fixed to and including a suitable stimber or tubular posts and braces. The board is to be painted ivory white 12mm wide dividing lines dark green. All wording shall be inscribed in dark of arms for SA. All wording shall be inscribed in dark green painted sans so	of suitable boarding les and projecting be securely fixed to upporting structure of and the bead and green as per the coat		
12.1.15 [6.6]	Subcontractors' notice board A notice board is required Specific requirements:	(yes/no)	NO	
12.1.16 <i>[</i> 7.2]	Water Option A (by contractor)	(yes/no)	YES	
. ,	Option B (by employer – free of charge)	(yes/no)		
	Option C (by employer – metered)	(yes/no)		

	Electricity		
[7.3]	Option A (by contractor)	(yes/no)	YES
	Option B (by employer – free of charge)	(yes/no)	
	Option C (by employer – metered)	(yes/no)	
12.1.18	Telecommunications		
[7.4]	Telephone	(yes/no)	YES
	Facsimile	(yes/no)	YES
	E-mail	(yes/no)	YES
12.1.19	Ablution facilities		
[7.5]	Option A (by contractor)	(yes/no)	YES
	Option B (by employer)	(yes/no)	
12.1.20	Protection of existing/sectionally occupied works		
[11.2]	Protection is required	(yes/no)	YES
12.1.21 [9.2]	Special attendance Subcontractor (1) details:		
	Subcontractor (2) details:		
	Subcontractor (3) details:		
	Subcontractor (4) details:		
12.1.22	Protection of the works		
[11.1]	Specific requirements: Protection of the works at all times will be a requirem	nent of this Contrac	t.
12.1.23	Disturbance		
[11.5]	Specific requirements: The contractor shall keep the site, structures, etc well watered during operatus and shall provide and erect and remove on completion of the works all temperature duct agreement to the set infection of the principal agent	•	
ı	temporary dust screens all to the satisfaction of the principal agent		
12.1.24 [11.6]	Environmental disturbance Specific requirements: Due to the close proximity of the site to large bodies it is to be noted by the Contractor that no dumping of rubble and/or waste in		
12.2	form whatsoever will be permitted. POST-TENDER INFORMATION		
12.2.1	Payment of preliminaries		
[10.2]	Option A (prorated)	(yes/no)	
	Option B (calculated)	(yes/no)	
12.2.2	Adjustment of preliminaries		
[10.3]	Option A (three categories)	(yes/no)	
	Option B (detailed breakdown)	(yes/no)	
12.2.3	Additional agreed preliminaries items		
	Details:		

	SECTION C: SPE	CIFIC PRELIMINARIES		
		ns specific preliminary iter ars against an item	ms which apply to this contra	act except where N/A (Not
.0	CONTRACT DRA	AWINGS		
	guide only for tend	dering purposes and for ir	nents do not comprise the condicating the scope of the works and the ma	ork to enable the tenderer
			arly understood by the tender writing from the principal a g	
	Fixed:	Value related:	Time related:	
	GENERAL PREA	MBLES		
			nd Methods to be used (PW be read in conjunction with s	
	Fixed:	Value related:	Time related:	
	TRADE NAMES			
	tenderer's attentic subject to the writt submission of tend	on is drawn to the fact the ten approval of the princ i ders proval for an alternative p	has been described in the hat any other product of equipal agent being obtained product is not obtained, the p	ual quality may be used rior to the closing date for
	Fixed:	Value related:	Time related:	
				Item
	SECURITY CHEC	CK OF PERSONNEL		
		ent may require the contr them, security classified	ractor to have his personnel	and workmen, or a
	works for security	reasons, the contractor resons are denied access	ing the removal of a person shall do so forthwith and sh to the works and the site ar	all thereafter ensure that
	Fixed:	Value related:	Time related:	
				Item
	HIV/AIDS AWARE	ENESS		
	Department that mof the bills of qu C10.1 to C10.5 aforementioned s	nust be read together with uantities. Provision for p hereafter and it is expecification are deemed	ly study the HIV/AIDS Speci n and is deemed to be incorp pricing of HIV/AIDS awarene xplicitly pointed out that is to be priced hereunder, as	porated under this Section ess is made under items all requirements of the the said items represent
	shall be entertaine		idditional items or extras to t	the contract in this regard

5.1	AWARENESS C	HAMPION			
			available of an Awareness Cham dance with the HIV/AIDS Specific		
	Fixed:	Value related:	Time related:	Item	
5.2	AWARENESS W	ORKSHOPS			
	provision of a Se workshops by mo courses, making	rvice Provider Workshop Pla eans of traditional and/or mo	ervice Provider approved by the an and a suitable venue, conduc dern multi-media techniques, ind and performing assessment pro	ting of awareness cluding follow-up	
	Fixed:	Value related:	Time related:	Item	
5.3	POSTERS, BOO	OKLETS, VIDEOS, ETC.			
	posters, booklets		ing when necessary of four plast c. for the duration of the constru		
	Fixed:	Value related:	Time related:	ltem	
5.4	ACCESS TO CO	ONDOMS			
	condoms, replen	ishing male and female cond	nsers fixed in position, including doms on a daily basis as required with the HIV/AIDS Specification		
	Fixed:	Value related:	Time related:	Item	
5.5	MONITORING				
	information inclu	ding making available all rep on, for the duration of the co	providing the principal agent wi ports, thoroughly completed and in instruction period and close ou	reflecting the	
	Fixed:	Value related:	Time related:		
3.0	OCCUPATIONA	L HEALTH AND SAFETY A	ACT		
		• •	quirements set out in the Constr and Safety Act, 1993 (Act No 85)	-	
	•		study the Health and Safety Spe e incorporated under this Sect		
	Construction Re partial or total n A31.0 of Section progress payme The contractor	gulations and Health and S on-compliance, the princip on A or any other clause to the ont certificate until the con	ance with the Occupational Head Safety Specification is compulso all agent, notwithstanding the phe contrary, reserves the right to tractor provides satisfactory provides of whatsoever	ory. In the event of provisions of clause to delay issuing any roof of compliance.	
	Health and Safe requirements of	ty Specification is made und	ealth and Safety Act, Construction der this clause and it is explicitly eemed to be priced hereunder	pointed out that all	
	•				
	Fixed:	Value related:	Time related:	ltem	

The contractor is to price against this item for all requirements in respect of COVID prevention, management and compliance. In this regard, the following items must as a minimum be considered when pricing and will be deemed to be included in the rate entered against this item:	
a. COVID marshalls for the due enforcement of COVID policy. The required number of marshalls in order to effectively enforce COVID protocol is to be determined by the contractor in accordance with his programme of works. Marshalls are to be duly and effectively trained in the execution of their duties. In addition, marshalls must be provided with the relevant PPE and tools i.e. temperature readers, sanitiser etc. to carry out their designated function.	
b. COVID related PPE - the contractor is to ensure that an ample supply of COVID specific PPE is available to the site at all times. This shall include relevant disposable masks, sanitiser, gloves (if applicable), etc. These items shall be sufficient for the contractors own staff, sub-contractors and their staff, as well as the professional team and all visitors to the site.	
c. Sanitising of surfaces - a major infection risk remains the contamination of surfaces. With this in mind, the contractor will be required to sanitise all touch surfaces daily i.e. door and window handles, tools, plant controls, desks and other works surfaces, ablutions, kitchens and associated surfaces, etc.	
d. COVID testing - the contractor will be required to ensure that all employees (own and subcontractor) are tested for COVID prior to the commencement of work on site.	
e. Signage - the contractor shall provide and maintain COVID signage around the site and work areas.	
f. Isolation areas - the contractor shall provide and maintain isolation areas for suspected COVID cases amongst the workforce.	
g. Waste disposal - COVID related PPE is to be properly disposed of in demarcated areas and the contractor shall accordingly provide same facilities including marked bins, regular waste removal, etc.	
h. Transportation of employees - where employees are transported to site by the contractor, he shall ensure that transport arrangements support social distancing and COVID safety.	
i. Programme effects - the contractor shall consider the effect of COVID compliance and regulations i.e. social distancing on his programme and shall ensure that costs related to this are included in this item.	
j. COVID Management - As part of OHS, the contractor shall ensure that COVID management and reporting are regular and accurate and that preventative or reactive measures are taken as required in order to ensure safety of all personnel on site.	
The above mentioned items represent the minimum expected requirements in respect of COVID management and compliance. Tenderers shall in addition price any and all other anticipated costs against this item as no further claims in this regard will be entertained.	
Fixed:Value related:Time related:Item	
Contract Price Adjustment Provisions	
Bidders are advised that this Contract shall be a Fixed Price Contract and shall not be subject to the Contract Price Adjustment Provisions (CPAP) or any other escalation formula and therefore bidder are to allow for any increases (except any variations in the rate of Value Added Tax) in cost of labour, materials, transport, etc.	
Site Instructions	
Site Instructions issued on site are to be recorded in triplicate in a site instruction book which is maintained on site by the contractor. Fixed: Value related: Time related:	
ltem	

C6.1

COVID SAFETY AND COMPLIANCE

C9.0	Warranties for material and workmanship	- [
	Where warranties for materials and /or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliever same to the Principal Agent on certified completion of contract. The warranty shall state that workmanship, materials and installation are warranteed for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. Fixed: Value related: Time related: Time related: There	
C10.0	Item <u>Co-operation of contractor for cost management</u>	
	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/ reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors Fixed: Value related: Time related: Item	
C11.0	Confidentiality	
C12.0	Such information shall not be used in any way except in connection with the execution of the works No information regarding this project shall be published or disclosed without the prior written consent of the employer Fixed: Value related: Time related: Item	
C12.0	Testing of windows for watertightness	
	Each window shall be tested for watertightness with water sprayed on by means of a 20mm hosepipe using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure in the hosepipe shall be boosted by means of compressed air or other approved means	
	Fixed: Value related: Time related: Item	
	Tender Data Schedule	
	Fixed: Value related: Time related: Item	
	General Conditions of Contract Fixed: Value related: Time related: Item	
	Special Conditions of Contract Fixed: Value related: Time related: Item	
	Contract Data Fixed: Value related: Time related: Item	
	Schedule of Variables Fixed: Value related: Time related: Item	

C13.0	CONTRACTOR ACCESS	
	The contractor shall provide for a security access card for all personnel (management and labour) entering the site. Each identification tag is to include for the following information: -	
	i. Project name ii. Colour photo (ID book size) iii. Company name iv. Name and ID number Fixed: Value related: Time related:	
C14.0	PRICING OF BILLS OF QUANTITIES	
	Tenderers are to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the Standard System of Measurement) patterns, models and templates, plant, temporary works, returning of packing, duties, taxes, imposts, establishment charges, overheads, profit, attendance (general and specific) and all other obligations arising out of the agreement. The rate inserted by the tenderer opposite each item will be deemed to be applicable to the item as originally specified. Should the tenderer wish to offer an alternative specification to any particular item, he is to provide this as an alternative to his Bid sum for consideration by the principal agent as a submission with his Bid. No alternatives will be accepted during the construction period unless prior approval at tender stage is granted in writing by the Principal Agent. Under no circumstances are the descriptions in the bills of quantities to be altered by the tenderer.	
	Where a bill of quantities item includes "or other approved" within its description and the tenderer has priced a "or other approved" specification, the tenderer is to provide a schedule of all such bill items that have been priced as "or other approved" including the full details and specifications of the "or other approved" items priced. Should no schedule of "or other approved" items be received with the 'formal tender submission' from the tenderer it shall be deemed that the tenderer has priced the item as per the original specification in the tender documents and no alternative specifications will be accepted for the tendered rate.	
	Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the tenderer's omission to price any item will be entertained.	
	Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.	
	The contractor shall execute work during "overtime" hours as necessary in order to complete the project within the agreed construction period and shall provide such resources and work such overtime hours as necessary. Costs for the execution of this work under these conditions shall be included within the contract sum. (See requirements in terms of Clause B12.1.23 of these Preliminaries)	
	Fixed:Value related:Time related:	
C15.0	COSTS OF CLAIMS	
	All costs incurred by the contractor in the preparation of claims to the satisfaction of the principal agent and/or quantity surveyor shall be borne by the contractor.	
	In furtherance of the above, the Contractor shall ensure that at least one dedicated, full-time, senior resource is allocated for the preparation of cost related information including but not limited to payment claims, cost reports, contractor cashflows, etc. Pricing will be deemed to be inclusive of this requirement	
	Fixed:Value related:Time related:	

SECTIO	N 1				I
PRELIM	INARIES				
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Item		Page	R	C	
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	SECTION 1					
	PRELIMINARIES					
	CARRIED TO FINAL SUMMARY			R		
		SUBTOTALS:			R	С
		Category: Fixed	R			
		Category: Value	R			
		Category: Time	R			
	I					

		Unit	Quantity	Rate	Amount
BILL NO. 1					
ALTERATIONS					
Key:	Location Description:				
Un/A	Unallocated				
Α	Block A - 3 Class				
B	Block B- Admin & Kit Block B1 - 6 Class				
B1 C	Block C - 7 Class				
C1	Block C1 - Comp Rm				
Ext	External Works				
I	Item Location (Auto)				
ASAQS Model Tra	ferred to the relevant clauses in the ades Preambles 2008 and to the reambles which are incorporated at the s of Quantities.				
performance and products and worl	ferred to SANS 10400 for full details of specification requirements. All kmanship shall be in compliance with ons of SANS and approved				
SUPPLEMENTAL	RY PREAMBLES				
View site					
site and satisfy hil work to be done a in the buildings or demolished. No d sum in respect of	his tender the contractor shall visit the mself as to the nature and extent of the nd the value of the materials contained portions of the buildings to be claim for any variations of the contract the nature and extent of the work or of ed materials will be entertained				
Damage to exist	ng finishes:				
however caused,	Il be held responsible for all damage, to existing finishes and fitting etc. and od all damage at his own expense to e Principal Agent.				
tasks, hacking off executed with car remaining floor ar these are to be re include allowance existing surfaces effect the above,	emolition and alteration activities and of existing plaster, etc. is to be e so as to prevent damage to ad wall surfaces and finishes (where tained). Tenders will be deemed to for any necessary protection of and structures as may be necessary to as the cost of repairing damage to and structures will be solely for the unt.				
	Carried to Collection			R	
Bill No. 1					
Alterations					
	1				

	Unit	Quantity	Rate	Amount
Responsibility for site:				
The contractor is to note that upon possession of the site by himself, and extending until practical completion is achieved, he is solely responsible for the site, site security, general upkeep and cleaning of the site and all other responsibilities in maintaining a construction site in conformance with but not limited to, the Construction Regulations 2003, all local by-laws, all user client regulations, and all Client regulations and procedures, notwithstanding any partial occupation/usage by the school population. Tenderers are therefore urged to study all available material and to investigate fully the site and areas contiguous to the site, in order to determine the range and extent of responsibility. No additional monetary and/or time claims will be entertained in respect of the above.				
Explosives				
No explosives whatsoever may be used for demolition purposes unless otherwise stated				
<u>General</u>				
Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent				
Doors, fanlights, fittings, frames, linings, etc. which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc., and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or revarnishing is given separately				
Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.				
Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. and making good floor and wall finishes to match existing				
With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc., shall be levelled and prepared for raising of brickwork				
Carried to Callection			5	
Carried to Collection			R	
Bill No. 1				
Alterations				
2				

	Unit	Quantity	Rate	Amount
Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc.)				
Removal of materials:				
Where removal is included in the heading, sub-heading or item description, prices shall be deemed to include for the necessary costs in removal and appropriate disposal of materials including but not limited to labour, transportation and disposal costs. No further claims in this regard will be entertained.				
Removal of asbestos material:				
All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposing of waste water resulting from cleaning operations, etc.				
The following shall apply in respect of asbestos removal				
The removal of asbestos shall be carried out by a certified entity, registered in accordance with the Occupational Health and Safety Act 1993 and the Asbestos Regulation 2001.				
Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation, and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose.				
Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material.				
Carried to Collection			В	
Carried to Collection			R	
Bill No. 1				
Alterations				
3				

	Unit	Quantity	Rate	Amount
Under no circumtances is the contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occuring, the contractor will be held responsible contractually and may further be prosecuted criminally.				
The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in the items for removal of asbestos material. No further claims in this regard will therefore be entertained.				
TEMPORARY BARRIERS AND SCREENS				
Temporary barriers, screens, etc. including removal				
1.8m High standard gumpole, galvanised mild steel mesh and shadecloth fence hoarding with all materials securely fixed to each other around buildings externally under construction including all necessary gates etc, installation and rotation of the temporary protection throughout the contract period as per the construction				
programme.	m	170		
Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings and making good finishes elsewhere)				
Timber single door and frame not exceeding 2,5m ²	No	22		
A 3 B 5 B1 6				
C 7 C1 1 Note: Tenderers are referred to the supplementry preambles when pricing the following item (removal of asbestos)				
Taking down and removal of Asbestos by Specialist				
Asbestos roof sheets including all timber purlins, fixings,	m²	1 643		
etc. A 287 B1 672 C 587	111	1 043		
C1 97		400		
Asbestos fascias and barge boards including fixings. A 72 B 53 B1 113	m	406		
C 130 C1 38				
Aluminium Seamless gutters and PVC downpipes including fixings.	m	485		
A 80 B 50 B1 147 C 175 C1 33				
If the item below is not priced it is deemed to form part of the OHS cost in the preliminaries				
Carried to Collection			R	
Bill No. 1				
DWALLA				

		Unit	Quantity	Rate	Amount
6	Issue of certificate of compliance by registered AIA appointed by your asbestos disposal and removal subcontractor, for the safe removal of asbestos contained products before the work on site commences	Item			
7	Un/A 1 Taking out and removing sundry joinery work, fittings, etc., setting aside for re-use and later refixing in similar new position Timber wall cupboard 900mm x 450 deep x 2100mm high A 3 B1 6 C 7 C1 1 Taking down and removing roofs, floors, panelling, ceilings, partitions, etc	No	17		
8	Double pitched timber roof truss with clear span between walls 6000mm - 7000mm long and approximately 1600mm high	No	3		
9	Double pitched timber roof truss with clear span between walls 8000mm - 9000mm long and approximately 1600mm high	No	32		
10	B 4 B1 13 C 15 Double pitched timber roof truss with clear span between walls 9000mm - 10000mm long and approximately 1600mm high	No	7		
11	A 7 Gypsum plasterboard ceilings, including cornices, timber brandering, etc.	m²	1 494		
12	A 260 B 156 B1 456 C 540 C1 82 TEMPORARY ROOF PROTECTION The Contractor will be held responsible for all damage, howsoever caused, to finishes inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the Employer. Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or disturbed after completion (measured on flat). C 569 Carried to Collection Bill No. 1 Alterations	m²	569	R	

		Unit	Quantity	Rate	Amount
13	Taking out and removing ironmongery Remove existing chalkboards approximately 4800 x 1200mm high including fixings, etc., and cart off site A 3 B1 6 C 8 C1 1 Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.	No	18		
14	25mm Screed from floors	m²	229		
15	A 40 B 23 B1 73 C 82 C1 11 Internal plaster from walls and columns	m²	22		
	A 4 B 2 B1 7 C 8 C1 1				
16	External plaster from walls and columns	m²	242		
	A 43 B 25 B1 76 C 85 C1 13 Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.				
17	Tiles to floors	m²	1 494		
	A 260 B 156 B1 456 C 540 C1 82 REMOVAL OF EXISTING WORK Breaking down and removing brickwork etc.				
18	One brick walls in beamfilling	m²	34		
	A 6 B 3 B1 11 C 12 C1 2 PREPARATORY WORK TO EXISTING SURFACES Preparatory work				
19	Making good defects in existing screeded floors with 'Pavelite' or other approved B1 60 C 71	m²	131		
	Carried to Collection Bill No. 1 Alterations			R	

		Unit	Quantity	Rate	Amount
	MAKING GOOD OF FINISHES, ETC				
	Making good brickwork				
20	Making good existing external brickwork including				
	carefully saw cutting the brickwork on both sides of				
	cracks for a depth of 15mm and thoroughly remove brickwork and plaster from saw cuts. Thereafter, fill the				
	resultant widened crack with "Epidermix 318" as required and according to manufacturers instructions		00		
		m	30		
	A 4 B 5 B1 7 C 10 C1 4				
21	Making good existing internal brickwork including carefully saw cutting the brickwork on both sides of				
	cracks for a depth of 15mm and thoroughly remove				
	brickwork and plaster from saw cuts. Thereafter, fill the resultant widened crack with "Epidermix 318" as required				
	and according to manufacturers instructions	m	25		
	A 4 B 2 B1 5				
	C 10 C1 4 Making good of doors and windows				
22	Make good existing glazed steel window approximately				
	1000mm x 1100mm high including sanding down thoroughly, apply metal primer and two coats gloss				
	enamel paint, replacing broken glazing, overhauling,				
	adjusting and servicing existing ironmongery to leave complete unit in a perfect condition	No	10		
	B 10				
23	Make good existing glazed steel window approximately 1000mm x 1500mm high including sanding down				
	thoroughly, apply metal primer and two coats gloss				
	enamel paint, replacing broken glazing, overhauling, adjusting and servicing existing ironmongery to leave				
	complete unit in a perfect condition	No	121		
	A 21 B1 42 C 49				
	C1 9				
	Carried to Collection			R	
	Bill No. 1				
	Alterations				
	7				
	·				·

		Unit	Quantity	Rate	Amount	
	Making good existing Roof trusses					
	Repairs to Bottom Chord:					
24	Make good existing timber roof truss previously taken down, of tie beam span approximately 7000mm - 8000mm between walls and approximately 1600mm high at apex, including carefully cutting out and removing sections of damaged 76 x 114mm bottom chord, replacing with new including bolting new section to old using approved galvanised mild steel bolts, washers, etc., replacing all bottom chord fixings, gang nails, etc. (whether damaged or not), sanding down and sealing entire truss to leave in a perfect condition, including reinstating in position as approved by the Engineer.	No	45			
	A 7 B 4 B1 14 C 16 C1 4 Repairs to rafters:					
25	Make good existing timber roof truss previously taken down, of tie beam span approximately 8000mm - 9000mm between walls and approximately 1600mm high at apex, including carefully cutting out and removing sections of damaged 76 x 114mm rafters, replacing with new including bolting new section to old using approved galvanised mild steel bolts, washers, etc., replacing all rafter fixings, gang nails, etc. (whether damaged or not), sanding down and sealing entire truss to leave in a perfect condition, including reinstating in position as approved by the Engineer.	No	45			
	A 7 B 4 B1 14 C 16 C1 4 Repairs to king post:					
26	Make good existing timber roof truss previously taken down, of tie beam span approximately 8000mm - 9000mm between walls and approximately 1600mm high at apex, including carefully cutting out and removing sections of damaged 76 x 76mm king post, replacing with new including bolting new section to old using approved galvanised mild steel bolts, washers, etc., replacing all king post fixings, gang nails, etc. (whether damaged or not), sanding down and sealing entire truss to leave in a perfect condition, including reinstating in position as approved by the Engineer.	No	45			
	A 7 B 4 B1 14 C 16 C1 4					
	Carried to Collection			R		_
	Bill No. 1					
	Alterations					
	8					

		Unit	Quantity	Rate	Amount
	Repairs to Bracings:				
27	Make good existing timber roof truss previously taken down, of tie beam span approximately 8000mm - 9000mm between walls and approximately 1600mm high at apex, including carefully cutting out and removing sections of damaged 76 x 52mm queen posts and intermediate and diagonal bracing and supports, replacing with new including bolting new section to old using approved galvanised mild steel bolts, washers, etc., replacing all king post fixings, gang nails, etc. (whether damaged or not), sanding down and sealing entire truss to leave in a perfect condition, including reinstating in position as approved by the Engineer.	No	45		
	A 7 B 4 B1 14 C 16 C1 4				
28	Repairs to Queen posts: Make good existing timber roof truss in position, of tie beam span approximately 8000mm - 9000mm between walls and approximately 1600mm high at apex, including carefully cutting out and removing sections of damaged 76 x 52mm queen posts and/or intermediate and diagonal bracing and/or supports, replacing with new including bolting new section to old using approved galvanised mild steel bolts, washers, etc., replacing all queen posts and intermediate and diagonal bracing and supports fixings, gang nails, etc. (whether damaged or not), sanding down and sealing entire truss to leave in a perfect condition, including reinstating in position as apporved by the Engineer.				
	A 7 B 4 B1 14 C 16 C1 4 FUMIGATION	No	45		
	Fumigation is to be performed by a registered fumigation specialist and undertaken with great care to ensure the safety of all persons within the vicinity of the building and in accordance with Government regulations:				
	DESLUDGING SEPTIC TANKS, ETC.				
29	Allow for tented fumigation of all buildings with Methyl Bromide gas. A 260 B 156 B1 456 C 540 C1 82 Desludging septic tank, etc.	m²	1 494		
30	Desludging septic tank and making good	Item			
	Un/A 1				
	Carried to Collection			R	
	Bill No. 1 Alterations				
	9			l	

		Unit	Quantity	Rate	Amount	
	TEMPORARY PARKHOMES					
	Rates for parkhomes to include standard windows, burglar bars, curtains and tracks, two tier steps for access, light fittings and black boards					
	"M-Projects" or other approved temporary parkhomes					
	Provide temporary parkhomes on site for educational facilities during the construction phase as herewith mentioned, including levelling, positioning on site and connection to an electrical supply including issuing compliance certificates					
	Parkhomes are to be standard classroom size minimum 7 x 7m or nearest size					
31	Provision of parkhome for a period of 14 months B 7	No	7			
32	Provision of two tier steps for 14 months B 7	No	7			
33	Provision of electrical compliance certificates for parkhomes	No	7			
34	B 7 Transport to and from site of parkhomes as per distance between supplier and site per return trip	No	7			
	B 7					
	Carried to Collection			R		
	Carried to Collection			1		
	Bill No. 1					
	Alterations 10					

Amount

		Amount	
BILL NO. 1 ALTERATIONS COLLECTION	Page No		
	ward from Page 1 2 3 4 5 6 7 8 9 10		
Carried to Summary	R		
Bill No. 1 Alterations			

	Unit	Quantity	Rate	Amount
BILL NO. 2 EARTHWORKS				
Key: Location Description: Un/A Unallocated A Block A - 3 Class B Block B- Admin & Kit B1 Block B1 - 6 Class C Block C - 7 Class C1 Block C1 - Comp Rm Ext External Works I Item Location (Auto)				
ASAQS Model Trades Preambles 2008 and to the Supplementary Preambles which are incorporated at the back of these Bills of Quantities.				
SUPPLEMENTARY PREAMBLES				
Nature of ground				
The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock'				
Excavation for working space in rock				
Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as 'extra over' bulk excavation or trench and hole excavation as the case may be				
Carting away of excavated material				
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				
Descriptions for carting away of materials are deemed exclusive of bulking i.e. the measurement of same for payment will be based on the volume of earth removed based on the approved design, and not the volume of earth finally removed from site.				
<u>Filling</u>				
Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material				
Carried to Collection			R	
Bill No. 2				
Earthworks				
12				

		Unit	Quantity	Rate	Amount
	· ·				
	<u>Testing</u>				
	Prices for filling are to include for all necessary density tests in accordance with SABS 1200D				
	EXCAVATION ETC				
	Excavation in earth not exceeding 2m deep				
1	Underpinning in 1000mm alternating sections under existing foundations.	m³	129		
	C 129 Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod AASHTO density				
2	Exceeding 1,5m deep and not exceeding 3,5m deep, etc. 300mm away from excavated face	m²	786		
	C 786 Extra over trench and hole excavations in earth for excavation in				
3	Soft rock	m³	13		
	C 13 Extra over all excavations for carting away				
1	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	65		
	C 65 Risk of collapse of excavations				
5	Sides of trench and hole excavations exceeding 1,5m deep	m²	786		
	C 786				
	Keeping excavations free of water				
3	Keeping excavations free of all water other than subterranean water	Item			
	I 1 FILLING ETC OTHER THAN BULK				
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density				
7	Backfilling to trenches, holes, etc.	m³	65		
	C 65 Prescribed density tests on filling	111			
8	Modified AASHTO Density test	No	13		
	C 13				
	Carried to Collection			R	
	Bill No. 2				
	Earthworks				

		Unit	Quantity	Rate	Amount	
9	SOIL POISONING Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years: To bottoms and sides of trenches C 851 Soil Poisoning Certificate	m²	851			
10	Issue of Soil Poisoning Certificate by registered and authorised entity. I 1	Item				
	Carried to Collection			R		
	Bill No. 2 Earthworks					

BILL NO. 2 EARTHWORKS COLLECTION	Brought Forward from Page	Page No 12 13 14	
Bill No. 2 Earthworks	Carried to Summary	R	

		Unit	Quantity	Rate	Amount
BILL NO. 3					
CONCRETE, FO	RMWORK AND REINFORCEMENT				
Key:	Location Description:				
Un/A	Unallocated				
A B	Block A - 3 Class Block B- Admin & Kit				
B1	Block B1 - 6 Class				
С	Block C - 7 Class				
C1	Block C1 - Comp Rm				
Ext I	External Works Item Location (Auto)				
	,				
ASAQS Model Tra	eferred to the relevant clauses in the ades Preambles 2008 and to the reambles which are incorporated at the s of Quantities.				
The tenderer is re	eferred to SANS 10400 for full details of				
performance and products and wor the relevant section	specification requirements. All kmanship shall be in compliance with ons of SANS and approved				
accordingly.	DV DD - 11101 - 0				
	RY PREAMBLES				
Cost of tests					
cubes as required shall include the conecessary for the submitting reports. The testing shall loor institution nomi	ing, storing and testing of concrete test dunder clause 7 Tests of SABS 1200 G cost of providing cube moulds purpose, for testing costs and for s on the tests to the principal agent. Doe undertaken by an independent firm inated by the contractor to the approval pent. (Test cubes are measured				
<u>Formwork</u>					
and waste only (e 'permanent'), for f wedging, plumbin surfaces as neces	rmwork shall be deemed to include use xcept where described as 'left in' or 'itting together in the required forms, g and fixing to true angles and ssary to ensure easy release during econditioning as necessary before re-				
construction as is required support v	ing shall be carried down to such sufficiently strong to afford the without damage and shall remain in newly constructed work is able to				
	Carried to Collection			R	
Bill No. 3					
Concrete, Formw	ork And Reinforcement				
	16				

		Unit	Quantity	Rate	Amount
	Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described				
	Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces 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				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	30MPa/19mm concrete				
1	Underpinning in alternating sections	m³	65		
	C 65 TEST CUBES				
	<u>Test cubes</u>				
2	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	32		
	C 32				
	Carried to Collection			R	
	Bill No. 3				
	Concrete, Formwork And Reinforcement 17				
ı	•		1 1		i I

BILL NO. 3 CONCRETE, FORMWORK AND REINFORCEMENT COLLECTION	Page No	
Brought Forward from Page	16	
	17	
Carried to Summary	R	
Bill No. 3		
Concrete, Formwork And Reinforcement 18		

	1	Unit	Quantity	Rate	Amount
BILL NO. 4					
<u>MASONRY</u>					
Key:	Location Description:				
Un/A	Unallocated				
Α	Block A - 3 Class				
В	Block B- Admin & Kit				
B1	Block B1 - 6 Class				
C	Block C - 7 Class				
C1	Block C1 - Comp Rm External Works				
Ext I	Item Location (Auto)				
ASAQS Model T	referred to the relevant clauses in the Frades Preambles 2008 and to the Preambles which are incorporated at the				
	ills of Quantities.				
BRICKWORK					
Sizes in descrip					
	descriptions are given in brick units, 'one esent the length and 'half brick' the width				
Hollow walls					
leaving every fift	hollow walls shall be deemed to include th perpend of the bottom course of the en as a weep hole				
Bagged and se	aled walls				
shall be deemed inner skin bagge	ns described as 'bagged and sealed' d to include having the outer face of the ed with 1:6 cement and sand mixture and coats bitumen emulsion waterproofing				
Face bricks					
Bricks shall be o	ordered timeously to obtain uniformity in				
<u>Pointing</u>					
and face brickwo	recessed pointing to fair face brickwork ork shall be deemed to include square v recessed, weathered pointing, etc.				
BRICKWORK II	N SUPERSTRUCTURE				
	FP bricks (14 MPa nominal				
	trength) in class II mortar				
One brick walls	in beamfilling	m²	266		
A 39	B 37 B1 78				
C 90	C1 22				
	Carried to Collection			R	
Bill No. 4					
Masonry					
-	19				

	Unit	Quantity	Rate	Amount
BRICKWORK SUNDRIES				
2,5mm Galvanised brick reinforcement		000		
150mm Wide reinforcement built in horizontally	m	293		
A 57 B 54 B1 114 C 36 C1 32				
Galvanised wire ties etc.				
4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	194		
A 30 B 24 B1 60	INO	194		
C 70 C1 10				
FACE BRICKWORK				
Brick-on-edge header course copings, sills, etc. of "Corobrik Firelight Satin" or other approved face				
bricks pointed with recessed joints on all exposed				
surfaces:				
220mm Wide sills set sloping and slightly projected	m	131		
A 21 B 10 B1 42 C 49 C1 9				
FIBRE-CEMENT WINDOW SILLS				
Fibre-cement Sills				
Fibre-cement sill "Everite Nutec" or other approved,				
(Product Code: 031-509) built into 230mm wall, with and including fixing lugs and self-tapping screws	m	131		
A 21 B 10 B1 42	""			
C 49 C1 9				
			_ ''	· ·
Carried to Collection			R	
Carried to Collection Bill No. 4			R	

BILL NO. 4 MASONRY COLLECTION	Brought Forward from Page	Page No 19 20	
Bill No. 4 Masonry	Carried to Summary	R	

			Unit	Quantity	Rate	Amount
BILL NO. 5						
WATERPROOF	FING					
Key:	Location Des	cription:				
Un/A	Unallocated					
Α	Block A - 3 Cl	ass				
В	Block B- Adm	n & Kit				
B1	Block B1 - 6 C					
С	Block C - 7 Cl					
C1	Block C1 - Co	•				
Ext	External Work					
1	Item Location	(Auto)				
ASAQS Model ⁵ Supplementary	Trades Preamble	elevant clauses in the es 2008 and to the h are incorporated at th	e			
SUPPLEMENT	ARY PREAMBL	<u>ES</u>				
Waterproofing						
under a ten yea be laid to even hips and valleys waterproofing s	ten year guarantee. Waterproofing to roofs shall be even falls to outlets etc. with necessary ridges, valleys. Descriptions of sheet or membrane pofing shall be deemed to include additional of turn-ups and turn-downs					
DAMPPROOFING OF WALLS AND FLOORS						
		ed polyethylene				
	urse (SANS 952	<u>-1985 type B)</u>				
In walls			m²	30		
A 5 C 11	B 2 C1 2	B1 10				
		Carried to Summa	ırv		R	
		Carried to Guirilla	'' ^y		K	
D						
Bill No. 5						
Waterproofing						
		22				

		Unit	Quantity	Rate	Amount
BILL NO. 6					
ROOF COVE	RINGS				
Key:	Location Description:				
Un/A	Unallocated				
Α	Block A - 3 Class				
В	Block B- Admin & Kit				
B1	Block B1 - 6 Class				
С	Block C - 7 Class				
C1	Block C1 - Comp Rm				
Ext	External Works				
I	Item Location (Auto)				
ASAQS Mode Supplementar	s referred to the relevant clauses in the I Trades Preambles 2008 and to the y Preambles which are incorporated at the Bills of Quantities.				
SUPPLEMEN	TARY PREAMBLES				
Sheeting:					
profile galvanis sheets, roll for length by a pn verifying comp	ting shall be 0.55mm thick full hard IBR sed mild steel or other approved roof med in continuous lengths and cut to eumatic cut-off process. A certificate pliance to all current SABS codes in vanised sheeting shall be issued by the				
Finishing of s	sheets:				
	h shall be colour plus on one side and finish on the other side				
Fixing of she	ets:				
flutes outermore from prevailing timber purlins accordance to is to be drilled approved Mass	ting shall be laid in long lengths, narrow lost, with single flute sidelaps facing away g wind. All sheets shall be secured to utilising approved roofing screws in strict the manufacturers instructions. Sheeting and not punched, with side laps filled with stic sealant. Sheeting is to protrude a form from ends of rafters				
	Carried to Collection			R	
Bill No. 6					
Roof Covering	ıs				
	23				
	20		1 1		

		Unit	Quantity	Rate	Amount
	Flashings:				
	Flashings shall be approved by the manufacturer and fixed to the sheeting with approved fixings. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Flashing flanges shall be notched to the sheet profile where necessary. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surface in order to prevent steel spatter from penetrating colour coated areas.				
	Erection:				
	Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced, at no additional cost to the Contract				
	Safety:				
	The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.				
	Guarantee:				
	The manufacturer shall comply with ISO9002 Quality Management System. Sheeting shall be laid in strict accordance with manufacturers specifications by an approved contractor. A written and approved five (5) year guarantee of site workmanship and water tightness shall be issued after final inspection of roof sheets by the manufacturer.				
	PROFILED METAL SHEETING AND ACCESSORIES				
	0.55mm Thick galvanized continuous IBR profile metal sheeting with 'Colour Plus' finish on one side and standard grey finish on the other side fixed to timber purlins with and including approved roofing screws with 19mm round galvanised washers and rubber gasket (timber purlins measured elsewhere)				
1	Roof covering with pitch not exceeding 25 degrees	m²	1 643		
	A 283 B 170 B1 497 C 589 C1 104				
2	Ridge cappings 462mm girth	m	153		
	A 25 B 16 B1 46 C 55 C1 11				
	Carried to Collection			R	
	Bill No. 6				
	Roof Coverings				
	24				

					Unit	Quantity	Rate	Amount	
3	Hot dip galvanised me capping and eaves			-	m	609			
4	A 100 B C 219 C Sondor IBR pattern po	1 42	B1 ridge c	185 apping and					
	eaves A 100 B		B1	185	m	609			
5	C 219 C Extra over roof sheet A 50 B	for fixing every of	crown a	t eaves.	m	305			
6	C 109 C	1 21			m	305			
	A 50 B C 109 C		B1	93					
7	Sundries "Teco" or other equall "hurricane" clips	ly approved galv	anised t	two way	No	5 408			
	A 884 B C 1924 C	1 390	B1	1638					
	ROOF AND WALL IN GROUP NO. 122)								
	Sisalation "GR 430 F multi-layered reinfor sheeting in accordan mass of not less tha rating in accordance	rced single-side nce with SANS in 163g/m² and	ed alum 1381-4 a Class	ninium foil with a					
8	Insulation sheeting lai purlins elsewhere mea roof covering with min including galvanised sexceeding 400mm celedges where required	id taut over timb asured) and fixe nimum 150mm s steel straining wi ntres and double	er purlined concustapled left	urrent with aps ot	m²	1 494			
	A 246 B C 542 C		B1	441					
		(Carried t	to Collection			R		
	Bill No. 6 Roof Coverings								
	· - · · · · · · · · · · · · · · · ·			25					

BILL NO. 6 ROOF COVERINGS COLLECTION	Brought Forward from Page	Page No 23 24 25	
Bill No. 6 Roof Coverings	Carried to Summary	R	

		Unit	Quantity	Rate	Amount
BILL NO. 7					
CARPENTRY	AND JOINERY				
Key:	Location Description:				
Un/A A	Unallocated Block A - 3 Class				
В	Block B- Admin & Kit				
B1	Block B1 - 6 Class				
С	Block C - 7 Class				
C1	Block C1 - Comp Rm				
Ext	External Works				
I	Item Location (Auto)				
ASAQS Model Supplementar	s referred to the relevant clauses in the I Trades Preambles 2008 and to the y Preambles which are incorporated at the Bills of Quantities.				
SUPPLEMEN	TARY PREAMBLES				
Fixing					
Items describe	ed as 'nailed' shall be deemed to be fixed steel nails or pins, or to be shot-pinned, to oncrete				
screwing to fib 500mm centre	ed as 'plugged' shall be deemed to include bre, plastic or metal plugs at not exceeding es, and where described as 'bolted', the en given elsewhere				
<u>Joinery</u>					
Descriptions o	f frames shall be deemed to include omes, rails, etc.				
	f hardwood joinery shall be deemed to g and pelleting heads and nuts of bolts				
Decorative th	ermosetting plastic laminate covering				
	ering shall be glued under pressure and same shall be butt jointed at junctions with ar finish				
Prefabricated construction:	plate nailed timber roof truss				
NOTE: The foltrusses:	llowing is applicable in respect of roof				
necessary for	or shall allow for all items deemed the proper design, fabrication and erection asses, bracing, etc.				
	Carried to Collection			R	
DULN 7					
Bill No. 7					
Carpentry And	-				
	27				

The materials and design of the roof construction shall be in accordance with the relevant edition of the South African Bureau of Standards (SABS) and the Standard Building Regulations (SBR). The design of trusses and permanent bracing shall be carried out under the control of a registered professional engineer who shall provide the requisition conflicate of standard and the provident of the control of a registered professional engineer who shall provide the requisition conflicate of standard and the provident of the control of a registered professional engineer who shall provide the requisition of each building showing the position of each building showing the position of each bye of member shall be submitted timeusly to the consulting Structural Engineer for his approval before fabrication is commenced. Prices are to include for the provision of adequate temporary bracing during construction to the approval of the Departmental Engineer. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before fabrication commences. Trusses must be designed in accordance with the environmental conditions of the area. The following roof trusses are to a pitch not exceeding 25 degrees (unless otherwise stated) spaced at approximately 1200mm centres and are to receive 0,55mm thick IBR-profile roof sheets on timber purins and an anial edu pealing under. PRETREATMENT OF TIMBER This service falls within the areas defined in the National Building Regulations for Treatment of Timber against insect peets falls within the areas defined in the National Buildings. The Regulations require that timber be treated in terms of SABS 03 and to comply with SABS 457, 753, 754 or 1286 as relevant. Tenderers are to make allowance in their rates. PREFABRICATED ROOF TRUSSES, ETC. All timber roof trusses are to including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0233. THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER T		Unit	Quantity	Rate	Amount	
be in accordance with the relevant edition of the South African Bureau of Standards (SABS) and the Standard Building Regulations (SBR). The design of trusses and permanent bracing shall be carried out under the control of a registered professional engineer who shall provide the requisite certificate of stability on completion of the roof contruction. All calculations and drawing, including a key plan of each building showing the position of each type of member shall be submitted timeously to the consulting Structural Engineer for his approval before fabrication is commenced. Prices are to include for the provision of adequate temporary bracing during construction to the approval of the Departmental Engineer. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect andor the site before fabrication commences. Trusses must be designed in accordance with the environmental conditions of the area. The following roof trusses are to a pitch not exceeding 25 degrees (unless otherwise stated) spaced at approximately 1200mm centres and are to receive 0,55mm thick IBR-profile roof sheets on timber purlins and a nailed up ceiling under. PRETREATMENT OF TIMBER This service falls within the areas defined in the National Building Regulations for Treatment of Timber against insect peat affecting softwood fixed permanently in all buildings. PRETREATMENT OF TIMBER The Regulations require that timber be treated in terms of SABS 05 and 10 comply with SABS 457, 753, 754 or 1286 as relevant. Tenderers are to make allowance in their rates. PREFABRICATED ROOF TRUSSES, ETC. All timber roof trusses including nail-plated trusses and botted trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERRECTION OF TIMBER TRUSSES. Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced a						
carried out under the control of a registered professional engineer who shall provide the requisite certificate of stability on completion of the roof contruction. All calculations and drawing, including a key plan of each building showing the position of each type of member shall be submitted timeously to the consulting Structural Engineer for his approval before fabrication is commenced. Prices are to include for the provision of adequate temporary bracing during construction to the approval of the Departmental Engineer. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before fabrication commences. Trusses must be designed in accordance with the environmental conditions of the area. The following roof trusses are to a pitch not exceeding 25 degrees (unless otherwise stated) spaced at approximately 1200mm centres and are to receive 0.55mm thick ISR-profile roof sheets on timber purilins and a nailed up ceiling under. PRETREATMENT OF TIMBER This service falls within the areas defined in the National Building Regulations for Treatment of Timber against insect pest affecting softwood fixed permanently in all buildings. The Regulations require that timber be treated in terms of SABS 05 and to comply with SABS 457, 753, 754 or 1288 as relevant. Tenderers are to make allowance in their rates. PREFABRICATED ROOF TRUSSES, ETC. All timber roof trusses including nall-plated trusses and bolted trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES. Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round.	be in accordance with the relevant edition of the South African Bureau of Standards (SABS) and the Standard					
temporary bracing during construction to the approval of the Departmental Engineer. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before fabrication commences. Trusses must be designed in accordance with the environmental conditions of the area. The following roof trusses are to a pitch not exceeding 25 degrees (unless otherwise stated) spaced at approximately 1200mm centres and are to receive 0,55mm thick IBR-profile roof sheets on timber purlins and a nailed up celling under. PRETREATMENT OF TIMBER This service falls within the areas defined in the National Building Regulations for Treatment of Timber against insect pest affecting softwood fixed permanently in all buildings. The Regulations require that timber be treated in terms of SABS 05 and to comply with SABS 457, 753, 754 or 1288 as relevant. Tenderers are to make allowance in their rates. PREFABRICATED ROOF TRUSSES, ETC. All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES. Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round. Carried to Collection R Bill No. 7 Carpentry And Joinery	carried out under the control of a registered professional engineer who shall provide the requisite certificate of stability on completion of the roof contruction. All calculations and drawing, including a key plan of each building showing the position of each type of member shall be submitted timeously to the consulting Structural Engineer for his approval before fabrication is					
nominal and actual measurements are to be obtained from the architect and/or the site before fabrication commences. Trusses must be designed in accordance with the environmental conditions of the area. The following roof trusses are to a pitch not exceeding 25 degrees (unless otherwise stated) spaced at approximately 1200mm centres and are to receive 0,55mm thick IBR-profile roof sheets on timber purlins and a nailed up ceiling under. PRETREATMENT OF TIMBER This service falls within the areas defined in the National Building Regulations for Treatment of Timber against insect pest affecting softwood fixed permanently in all buildings. The Regulations require that timber be treated in terms of SABS 05 and to comply with SABS 457, 753, 754 or 1288 as relevant. Tenderers are to make allowance in their rates. PREFABRICATED ROOF TRUSSES, ETC. All timber roof trusses including nail-plated trusses and boiled trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES. Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round. Carried to Collection R Bill No. 7 Carpentry And Joinery	temporary bracing during construction to the approval of					
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Building Regulations for Treatment of Timber against insect pest affecting softwood fixed permanently in all buildings. The Regulations require that timber be treated in terms of SABS 05 and to comply with SABS 457, 753, 754 or 1288 as relevant. Tenderers are to make allowance in their rates. PREFABRICATED ROOF TRUSSES, ETC. All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES. Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round. Carried to Collection R Bill No. 7 Carpentry And Joinery	PRETREATMENT OF TIMBER					
of SABS 05 and to comply with SABS 457, 753, 754 or 1288 as relevant. Tenderers are to make allowance in their rates. PREFABRICATED ROOF TRUSSES, ETC. All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES. Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round. Carried to Collection R Bill No. 7 Carpentry And Joinery	Building Regulations for Treatment of Timber against insect pest affecting softwood fixed permanently in all					
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bolted trusses with lapped members must comply with SABS 0243: THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES. Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round. Carried to Collection R Bill No. 7 Carpentry And Joinery	PREFABRICATED ROOF TRUSSES, ETC.					
bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round. Carried to Collection R Bill No. 7 Carpentry And Joinery	bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND					
Bill No. 7 Carpentry And Joinery	bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all					
Carpentry And Joinery	Carried to Collection			R		
Carpentry And Joinery	Bill No. 7					

		Unit	Quantity	Rate	Amount	
	Plate nailed timber roof truss construction:					
	The following is applicable in respect of roof trusses: Trusses are at maximum 1200mm centres. Roof covering is 0,55mm thick IBR-profile roof steel on timber purlins. Ceilings are plasterboard on softwood brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the Architect and/or the site before design or fabrication commences.					
	The following in plate nailed timber roof trusses with pitch not exceeding 25 degrees from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates to SABS 0243:					
1	Supply and install roof truss size complete in accordance with the Standard Building Regulations, including all timber members, cross battens at hips, valleys, etc. all in accordance with the relevant specifications to tie beam span approximately 6000mm - 7000mm between walls and approximately 1600mm high at apex (Pitch not exceeding 25 degrees)	No	3			
2	Supply and install roof truss size complete in accordance with the Standard Building Regulations, including all timber members, cross battens at hips, valleys, etc. all in accordance with the relevant specifications to tie beam span approximately 8000mm - 9000mm between walls and approximately 1600mm high at apex(Pitch not exceeding 25 degrees)	No	32			
3	B 4 B1 13 C 15 Supply and install roof truss size complete in accordance with the Standard Building Regulations, including all timber members, cross battens at hips, valleys, etc. all in accordance with the relevant specifications to tie beam span approximately 9000mm - 10 000mm between walls and approximately 1600mm high at apex(Pitch not exceeding 25 degrees)	No	7			
	A 7 Sawn softwood	140	,			
4	76 x 52mm Purlins A 300 B 190 B1 556	m	1 828			
5	C 656 C1 126 114 x 38mm Wall plates	m	51			
	A 8 B 5 B1 16 C 18 C1 4					
	Carried to Collection			R		_
	Bill No. 7 Carpentry And Joinery					
	29					

		Unit	Quantity	Rate	Amount
6	Sundries Two coats "ABE Provonite" or other equally approved coal tar paint on roof timbers at eaves and verges	m²	666		
_	A 109 B 70 B1 202 C 237 C1 48 The following certificates are required per block				
7	Provide manufacture and installation certificates (TR1 and TR2), to be supplied by the contractor and approved by the Consulting Structural Engineer after manufacture and installation respectively	Item			
	Un/A 1 ROOFS ETC Sawn softwood				
8	38 x 114mm timber fixed to ends of timber trusses A 50 B 32 B1 93	m	305		
9	C 109 C1 21 50 x 75mm timber fixed to ends of timber purlins	m	101		
10	A 21 B 21 B1 21 C 21 C1 17 Install 38 x 114mm Timber cross bracings fixed to existing timber roof trusses at rafter, using galvanised mild steel bolts, washers, etc. including sanding down and sealing entire trusses to leave in a perfect condition, including reinstating in position as approved by the engineer.	m	207		
	A 33 B 21 B1 63 C 75 C1 15 EAVES, VERGES, ETC "Everite Nutec" or other equally approved plain				
11	fibre-cement socketless fascias and barge boards 80 x 200mm Angle section barge boards (Product Code: 527-731) including galvanised steel H-Profile jointing				
	strips (Product Code: 655-187) and fix with hot dip galvanised screws and washes A 21 B 21 B1 21	m	101		
12	C 21 C1 17 12 x 225mm (Product Code: 041-702) medium density Fascia boards including galvanised H-Profile jointing strips (Product Code: 685-187) tide with and including				
	hot dipped galvanised screws and washes A 50 B 32 B1 93 C 109 C1 21	m	305		
	Carried to Collection			R	
	Bill No. 7 Carpentry And Joinery 30				
	30				

		Unit	Quantity	Rate	Amount	
13	DOORS Wrought meranti doors hung to steel frame (Steel frame elsewhere measured) 44mm Thick framed, ledged and braced battened door overall size 813mm x 2032mm high formed of 44 x 110mm styles and top rail, 22 x 150mm middle ledge, 22 x 225mm bottom ledge, 22 x 110 braces and and filled in with 22mm thick "V" jointed boarding on both sides	No	22			
	A 3 B 5 B1 6 C 7 C1 1					
	Carried to Collection Bill No. 7 Carpentry And Joinery 31			R		

BILL NO. 7 CARPENTRY AND JOINERY COLLECTION		Page No	
	Brought Forward from Page	27 28 29 30 31	
	Carried to Summary	R	
Bill No. 7 Carpentry And Joinery	32		

		Unit	Quantity	Rate	Amount
BILL NO. 8					
	IONS AND ACCESS FLOORING				
<u>Key:</u> Un/A	Location Description: Unallocated				
A	Block A - 3 Class				
В	Block B- Admin & Kit				
B1 C	Block B1 - 6 Class Block C - 7 Class				
C1	Block C1 - Comp Rm				
Ext	External Works				
I	Item Location (Auto)				
ASAQS Model Trad	erred to the relevant clauses in the des Preambles 2008 and to the ambles which are incorporated at the of Quantities.				
SUPPLEMENTAR'	Y PREAMBLES				
<u>Fixing</u>					
	'nailed' shall be deemed to be fixed I nails or pins, or to be shot-pinned, to ete				
screwing to fibre, p	'plugged' shall be deemed to include lastic or metal plugs at not exceeding and where described as 'bolted', the ren elsewhere				
<u>Ceilings</u>					
Unless otherwise d be horizontal	escribed ceilings shall be deemed to				
<u>Bulkheads</u>					
which are stepped of a particular room of along the perimeter	ned as those portions of ceilings down from the general ceiling level in r area and which generally occur r. Their purpose is either to conceal e architectural features				
conform to the abor or vertical dimension these dimensions a	ly been described as such where they we definition and where the horizontal ons do not exceed 900mm. Where are more than 900mm such portions en included in the appropriate general				
Unless otherwise d to be horizontal alo	escribed bulkheads shall be deemed ng the length				
Steel components	<u>i</u>				
	ts for ceilings, partitions, etc. are to cordance with SANS 121				
	Carried to Collection			R	
Bill No. 8					
	And Access Flooring				
J : : :	33				

1		Unit	Quantity	Rate	Amount
1	CEILING TIMBERS, BEADS, INSULATION, ETC "Aerolite" or equally approved insulation 100mm Thick insulation in blanket from closely fitted and laid on top of brandering between roof timbers etc. A 246 B 153 B1 441 C 542 C1 112 NAILED-UP CEILINGS 9mm Gypsum plasterboard ceiling fixed print side up with 32mm galvanised semi-clout nails at 150mm centres with galvanised H-profile metal cover strips,	m²	1 494		
2	all in strict accordance with the manufacturers instructions: Ceilings including 38 x 50mm sawn softwood brandering at 450mm centers in both directions, complete with 38 x 50mm hanger brackets nailed to trusses and nailed to brandering as extra support system.	m²	1 494		
3	A 246 B 153 B1 441 C 654 Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	20		
	A 3 B 3 B1 6 C 7 C1 1 Gypsum plasterboard cornice				
4	75mm Coved cornices plugged A 106 B 84 B1 197 C 231 C1 34	m	652		
	Carried to Collection			R	
	Bill No. 8 Ceilings Partitions And Access Flooring 34				

BILL NO. 8 CEILINGS PARTITIONS AND ACCESS FLOORING COLLECTION	Page No	
Brought Forward from Page	33 34	
Carried to Summary	R	
Bill No. 8 Ceilings Partitions And Access Flooring		
Ceilings Partitions And Access Flooring 35		

		Unit	Quantity	Rate	Amount	
	BILL NO. 9					
	FLOOR COVERINGS					
	Key: Location Description:					
	Un/A Unallocated					
	A Block A - 3 Class B Block B- Admin & Kit					
	B1 Block B1 - 6 Class					
	C Block C - 7 Class C1 Block C1 - Comp Rm					
	Ext External Works					
	I Item Location (Auto)					
	FLOOR COVERINGS, WALL LININGS, ETC					
	<u>Fixing</u>					
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the					
	manufacturers of the flooring, linings, etc					
	FLOOR COVERINGS					
	300 x 300 x 2mm "Marley FloorworX Floorflex" semi flexible vinyl tiles to SABS 581:1992 laid in approved					
	adhesive and to manufacturers instructions					
1	On floors	m²	1 494			
	A 246 B 153 B1 441 C 542 C1 112					
	POLISH, SEALERS, ETC					
	Polish					
2	Thoroughly clean down and wash, strip with an ammonia					
	based stripping agent and apply three coats of approved polyurethane sealer in strict accordance with the					
	manufacturers instructions.	m²	1 494			
	A 246 B 153 B1 441					
	C 542 C1 112					
	0			_		
	Carried to Summary			R		
	Bill No. 9					
	Floor Coverings					
	36					

	Unit	Quantity	Rate	Amount	
	ı				
511. NO. 40					
BILL NO. 10 IRONMONGERY					
Key: Location Description:					
Un/A Unallocated					
A Block A - 3 Class					
B Block B- Admin & Kit B1 Block B1 - 6 Class					
C Block C - 7 Class					
C1 Block C1 - Comp Rm					
Ext External Works					
I Item Location (Auto)					
The tenderer is referred to the relevant clauses in the ASAQS Model Trades Preambles 2008 and to the Supplementary Preambles which are incorporated at the back of these Bills of Quantities.					
SUPPLEMENTARY PREAMBLES					
Proprietary items					
Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered On request returnable samples are to be provided to the					
principal agent for consideration					
Finishes to ironmongery					
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded					
HINGES, BOLTS, ETC.					
"Union" or other approved					
1 100mm Galvanised and welded loose pin hinges	No	44			
A 6 B 10 B1 12	ı				
C 14 C1 2					
					_
Carried to Collection			R		
					
Bill No. 10					
Ironmongery					
37					

	Amount
<u>LOCKS</u>	
"Union" or other approved	
2 Solid Art (Product Code: 390/313) Four-lever lockset with and including Satin Chrome plated handles No 22	
A 3 B 5 B1 6 C 7 C1 1 SUNDRIES	
"Geze" or other approved	
3 38mm Diameter rubber door stop plugged and screwed to floor with a 50mm long brass screw No 22	
A 3 B 5 B1 6 C 7 C1 1	
PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.	
SANS approved combi board:	
4 Combi board with and including anodised aluminum frame, size 2000 x 1200mm high plugged. No 1	
B 1 "Vitrex System 1000" or other equally approved vitreous enamelled Chalkboard:	
System 1000 vitreous enamel magnetic chalkboards 1140 x 2400mm long complete with aluminium chalkrail, etc, fixed adjacent to similar unit to form panel 4800mm long, including fixing to brickwork, etc No 36	
A 6 B1 12 C 14	
"Vitrex System 2000" or other equally approved pinning board:	
6 "Flortime Premier" carpet faced wall mounted pinning board with anodised aluminum channel surround, 1800 x 1200mm high all fixed in strict accordance with the Manufacturer's instructions.	
A 3 B1 6 C 7 C1 2	
Carried to Collection R	
Bill No. 10 Ironmongery	
38	

			7 arriodite	
BILL NO. 10				
IRONMONGERY				
COLLECTION				
		Page No		
	5 1.5 16 5	0.7		
	Brought Forward from Page	37		
		38		
	Carried to Summary	R		
Bill No. 10				
Ironmongery				
	39			

		Unit	Quantity	Rate	Amount
BILL NO. 11					
<u>METALWORK</u>					
Key:	Location Description:				
Un/A A	Unallocated Block A - 3 Class				
В	Block B- Admin & Kit				
B1	Block B1 - 6 Class				
С	Block C - 7 Class				
C1	Block C1 - Comp Rm				
Ext	External Works				
1	Item Location (Auto)				
ASAQS Model Tra	ferred to the relevant clauses in the ades Preambles 2008 and to the reambles which are incorporated at the of Quantities.				
SUPPLEMENTAR	RY PREAMBLES				
Descriptions of b	polts, anchors, etc.				
Descriptions of bo and washers	lts shall be deemed to include nuts				
chemical anchors	pansion anchors and bolts and and bolts shall be deemed to include mortices in brickwork or concrete				
	s 'holed for bolt(s)' shall be deemed to unless otherwise described				
	s 'plugged' shall be deemed to include plastic or metal plugs at not exceeding				
Hot dipped galva	ınising:				
calculated on the allowance has been	lip galvanised steelwork has been mass before galvanising and no en made for the additional mass of ich allowance must be made in pricing.				
galvanised shall b galvanising in acc	stated, all steelwork described as e deemed to include for 'hot-dip' ordance with the latest SANS				
standards.					
				_	
	Carried to Collection			R	
Bill No. 11					
Metalwork					
					n I

		Unit	Quantity	Rate	Amount	
1	Drawings: Tenderers are to note that where descriptions include reference to drawings, notwithstanding anything contained in the descriptions, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No additional time and/or monetary claims resulting from non-adherence to the above will be enterained. GALVANISED STEEL GATES, SCREENS, ETC Security gates: Purpose made single hot dipped galvanised mild steel gate, 1100mm x 2125mm formed of 40 x 60 x 3mm hollow sectioned frames and midrail, filled in with 12mm solid square vertical bars at 110mm centres welded to	Unit	Quantity	Rate	Amount	
	frame and fitted with 2no. Pin type gate hinges welded to frame and pad lock plates welded to gate and plugged to walls with and including expantion joints A 3 B 5 B1 6 C 7 C1 1 SUNDRY STEELWORK GALVANISED PRESSED STEEL DOOR FRAMES 1.2mm Double rebated frames suitable for 220mm brick walls complete with 2 brass butt hinges per door leaf with straps for building in:	No	22			
2	Frame for door 813 x 2032mm high. A 3 B 5 B1 6 C 7 C1 1	No	22			
	Carried to Collection Bill No. 11			R		
	Metalwork 41					

BILL NO. 11 METALWORK COLLECTION	Brought Forward from Page	Page No 40 41	
Bill No. 11 Metalwork	Carried to Summary	R	

		Unit	Quantity	Rate	Amount
BILL NO. 12					
PLASTERING					
Key:	Location Description:				
Un/A	Unallocated				
A B	Block A - 3 Class Block B- Admin & Kit				
B1	Block B1 - 6 Class				
С	Block C - 7 Class				
C1	Block C1 - Comp Rm				
Ext	External Works				
I	Item Location (Auto)				
ASAQS Mode Supplementar	s referred to the relevant clauses in the I Trades Preambles 2008 and to the y Preambles which are incorporated at the Bills of Quantities.				
SUPPLEMEN	TARY PREAMBLES				
Method					
The method to	be used shall be either the monolithic bonded method				
<u>Preparation</u>					
shall be swept ceased and th bleed water sh immediately th the floor slab a be hacked (pro- laitance, dirt, co- loose matter.	applied monolithically, the concrete floor clean after bleeding of the concrete has e slab has begun to stiffen; any remaining hall be removed and the granolithic applied hereafter. For granolithic to be bonded to after it has hardened, the slab surface shall eferably by mechanical means) until all bil, etc. is dislodged and swept clean of all The slab shall then be wetted and kept ast six hours before applying the				
<u>Mix</u>					
41MPa. The c 1083 and shal mesh sieve. W exceeds 25mr	all attain a compressive strength of at least oarse aggregate shall comply with SANS I generally be capable of passing a 10mm where the thickness of the granolithic m, the size of the coarse aggregate shall to the maximum size compatible with the ne granolithic.				
				_	
	Carried to Collection			R	
Dill No. 10					
Bill No. 12					
Plastering					
	43				

	Unit	Quantity	Rate	Amount	
<u>Panels</u>					
Granolithic shall be laid in panels not exceeding 14m\'b2 for monolithic finishes, not exceeding 9,5m\'b2 for bonded finishes and not exceeding 6m\'b2 for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.					
Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints					
Laying					
Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels					
Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels					
After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated					
Curing, seasoning and protection					
Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying.					
Colour					
Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.					
SCREEDS					
Screeds wood floated, on concrete					
Average 25mm thick on floors with upper surface to falls	m²	229			
A 38 B 24 B1 69 C 82 C1 16					
INTERNAL PLASTER Coment plaster, on brickwork					
Cement plaster, on brickwork On walls	m²	332			
A 53 B 32 B1 105	'''	332			
C 122 C1 20					
Carried to Collection	1		R		
Bill No. 12					
Plastering					

						Unit	Quantity	Rate	Amount	
3	On narrow widths A 1 C 1 EXTERNAL PLAS	В С1	1 1	B1	1	m²	5			
	Cement plaster, o		kwork:							
4	On walls					m²	552			
	A 92 C 199	B C1	55 32	B1	174					
5	On narrow widths					m²	7			
	A 1 C 2	B C1	1 1	B1	2					
				Carried	to Collection			R		
	Dill No. 40									
	Bill No. 12 Plastering									
	-				45					

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BILL NO. 12 PLASTERING COLLECTION		Page No	
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	Carried to Summary	R	
Bill No. 12 Plastering	46		
1		1	·· · · · · · · · · · · · · · · · · · ·

		Unit	Quantity	Rate	Amount
BILL NO. 13					
	ND DRAINAGE				
Key:	Location Description:				
Un/A	Unallocated				
Α	Block A - 3 Class				
В	Block B- Admin & Kit				
B1	Block B1 - 6 Class				
C	Block C - 7 Class				
C1 Ext	Block C1 - Comp Rm External Works				
I	Item Location (Auto)				
ASAQS Model Supplementary	referred to the relevant clauses in the Trades Preambles 2008 and to the Preambles which are incorporated at the Bills of Quantities.				
SUPPLEMENT	TARY PREAMBLES				
Wire gratings					
Descriptions of include wire ba	f gutter outlets etc. shall be deemed to alloon gratings				
Stormwater c	hannels				
necessary exc	f channels shall be deemed to include avation, surface preparation, compaction, sal of surplus material on site				
French drains	i				
excavation, sto bottom to 75m	f French drains shall be deemed to include one filling graded from 300mm diameter at m diameter at top, geofabric filter blanket 0mm earth filling over and disposal of al on site				
Septic tanks					
Descriptions of deemed to incl concrete base compaction, et	f proprietary type septic tanks shall be ude excavation, bedding and jointing, slabs, jointing to drains and backfilling, c. all in accordance with the instructions and disposal of surplus				
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Bill No. 13					
	Drainage				
Plumbing And	-				
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Stainless steel basins, sinks, wash troughs, urinals, etc. Stainless steel for economy basins, domestic sinks and worktops shall be I ype 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be Type 316 (18/6) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable Sealing of edges Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone WPVC pipes and fittings Sewer and drainage pipes and fittings shall be jointed and sealed with butly rubber rings. Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butly rubber rings. Soil, waste and vent pipes and fittings. Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uribcone and fittings. Pipes of 60mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type initral rubber. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type initral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type initral rubber ring joints. Bends shall be uPVC and all other fittings shall be east iron, all with similar push-in type joints High density polyethylene (HDPe) pipes and fittings Pipes shall be type IV and of the class specified with Plasson or Alprene compression fittings Polyropophene pipes Semm diameter and smaller shall be sameless copper coloured Class 16 pipes jointed with Plastius he has twedded thermoplastic or where so described Polylook compression fittings. Pipes shall be firmly fixed to walls, etc. with coloured rylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions		Unit	Quantity	Rate	Amount	
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Copper pipes Pipes shall be hard drawn and half-hard Maksal pipes of the class described. Class 0 (thin wailed hard drawn) pipes shall not be bent. Class 1 (thin wailed hard hardn), Class 2 (half-hard) and Class 3 (heavy wailed half-hard), Class 2 (half-hard) and Class 3 (heavy wailed half-hard) pipes shall only be bent with benders with inner and outer formers. Filings to copper waste, vent and antisysyhon pipes, capillary solder fittings and compression fittings shall be Cobra Watertech type. Capillary solder fittings shall be Cobra Watertech type. Capillary solder fittings shall comply with 180 2016 Copper pipes are to be installed in accordance with the latast revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc. to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition Roducing fittings Where fittings have reducing ends or branches they are described as 'reducing' and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained Fixing of pipes Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to wails, etc., casting in, building in or suspending not exceeding 1m below suspension level Paper wrapping to pipes Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings Disinfection of water pipework Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere) Donsyl patrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd. Pipes to be taped shall be coated with the appropriate widths and with 25% overlaps. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, Laydia therefits, secu		Unit	Quantity	Rate	Amount	
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Bill No. 13 Plumbing And Drainage						
Plumbing And Drainage	Carried to Collection			R		
Plumbing And Drainage	Bill No. 13					

	Unit	Quantity	Rate	Amount	
Laying, backfilling, bedding, etc. of pipes					
Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled					
Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L: Medium-pressure pipelines SABS 1200LD: Sewers SABS 1200LE: Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding					
<u>General</u>					
Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc. are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends					
Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc. shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 98% Mod AASHTO density and disposal of surplus material on site					
Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc. are given separately)					
Descriptions of WC pans, slop hoppers, etc. shall be deemed to include for joints to soil pipes (pan connectors are separately measured)					
As-built drawings					
Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)					
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Carried to Collection			R		
Bill No. 13					
Plumbing And Drainage					
50					

		Unit	Quantity	Rate	Amount	
	RAINWATER DISPOSAL					
	Seamless aluminium prepainted gutters and					
	rainwater pipes, with baked enamel finish					
1	150mm x 150mm x 0,6mm Square profile aluminium seamless roof gutters fixed to falls with brackets					
	screwed to eaves, purlins/false timber through fibre					
	cement fascia with galvanised screws/or bolted to fibre cement fascia or steel supporting structure with					
	galvanised bolts/nuts and washers at 500mm centres.	m	305			
	A 50 B 32 B1 93					
2	C 109 C1 21 100 x 75 x 0,6mm thick rectangular fluted Rainwater					
_	downpipes including prepainted aluminium straps fixed					
	to walls with nail plugs and/or fixed to steel supports with self tapping screws.	m	180			
	A 31 B 25 B1 50	m	100			
	C 57 C1 17					
3	Extra over gutter for stopped end	No	20			
	A 4 B 4 B1 4 C 4 C1 4					
4	Extra over eaves gutter for drop box suitable for 150 x					
	150mm box gutter	No	48			
	A 8 B 6 B1 14 C 16 C1 4					
5	Extra over gutter for outlet for 100 x 75mm pipe	No	48			
	A 8 B 6 B1 14 C 16 C1 4					
6	C 16 C1 4 Extra over rainwater pipe for bend	No	96			
	A 16 B 12 B1 28					
_	C 32 C1 8	No	48			
7	Extra over rainwater pipe for shoe A 8 B 6 B1 14	INO	40			
	C 16 C1 4					
	Carried to Collection			R		
	Bill No. 13					
	Plumbing And Drainage					
	51					

BILL NO. 13 PLUMBING AND DRAINAGE COLLECTION	Page No	
Brought Forward from Page	47	
	48	
	49	
	50 51	
Carried to Summary		
Carried to Summary	R	
Bill No. 13 Plumbing And Drainage		
52		

		Unit	Quantity	Rate	Amount	
BILL NO. 14						
GLAZING						
<u>Key:</u> Un/A	Location Description:					
Un/A A	Unallocated Block A - 3 Class					
В	Block B- Admin & Kit					
B1 C	Block B1 - 6 Class					
C1	Block C - 7 Class Block C1 - Comp Rm					
Ext	External Works					
I	Item Location (Auto)					
ASAQS Model Supplementary	referred to the relevant clauses Trades Preambles 2008 and to Preambles which are incorpora Bills of Quantities.	the				
SUPPLEMENT	ARY PREAMBLES					
Float glass						
The term 'float glass	glass' is used for monolithic ann	nealed				
Laminated gla	<u>ss</u>					
Laminated glas interlayer(s)	s to have polyvinyl butyral (PVB	6)				
Certificate						
	ng shall include for the relevant ູດ e issued at completion of projec					
GLAZING TO S	STEEL WITH PUTTY					
6.38mm safety	glass:					
Panes not exce	_	m²	203			
A 35 C 74 CERTIFICATES	C1 14 <u>S</u>	69				
Glazing Certifi	<u>cate</u>					
	SA Glass & Glazing Certificate bath SA Glass & Glazing Certificate b	by Item				
Un/A 1						
						
	Carried to	Summary		R		
Bill No. 14						
Glazing		_				
		53			ıl	

		Unit	Quantity	Rate	Amount
DII I NO 45					
BILL NO. 15					
<u>PAINTWORK</u>					
<u>Key:</u> Un/A	<u>Location Description:</u> Unallocated				
A	Block A - 3 Class				
В	Block B- Admin & Kit				
B1	Block B1 - 6 Class				
C C1	Block C - 7 Class Block C1 - Comp Rm				
Ext	External Works				
I	Item Location (Auto)				
ASAQS Model Tra	eferred to the relevant clauses in the ades Preambles 2008 and to the reambles which are incorporated at the s of Quantities.				
SUPPLEMENTA	RY PREAMBLES				
Propriety items of	or materials:				
	or materials where specified are to be ified - or other approved - by the Head:				
standard preambl	on is drawn to page SP52 of the es for all trades - WB20 for all full eparatory work to be carried out before ces.				
SABS Specificat	ions:				
	aster primer: SABS 1416				
	lecorative paint for interior works:				
High gloss ename	el paint: SABS 630 Grade I				
Oil gloss enamel	paint: SABS 631				
Primers for wood	for external work : SABS 678 type I				
	for internal work : SABS 678 type III				
	mers for steel : SABS 679 type II				
•					
Undercoats for pa Type I	nints (except emulsion paint) SABS 681				
Aluminium paint :	SABS 682 Grade II				
·	S 683 Type B (Oil based)				
·	S 940 Type B (emulsion based)				
•	, , ,				
•	aint : SABS 684 Type B				
Wash primer (me	tal etch) : SABS 723				
	Carried to Collection			R	
	Carried to Concetion			IX	
Bill No. 15					
Paintwork					
=	54				

	Unit	Quantity	Rate	Amount
Varnish for interior use: SABS 887 Type I			ļ	
Emulsion paints : SABS 1227 (textured: internal/external)				
Emulsion paints : SABS 1586 (Gloss, semi gloss, Matt: internal/external)				
Calcium plumbate primer : SABS 912			ļ	
Road marking paint: SABS 5731 Part I			ļ	
PREPARATORY WORK TO EXISTING WORK		1	ļ	
Previously painted plastered surfaces		1	ļ	
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
Previously painted metal surfaces		1	ļ!	
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
Previously painted wood surfaces		1	ļ!	
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
COLOURS		1	ļ!	
Colours, etc.		1	ļ	
Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SANS 1091				
ON INTERNAL FLOATED PLASTER SURFACES			ļ	
One coat alkali resistant primer and two coats "Plascon Wall and All" or other approved acrylic emulsion paint				
Walls	m²	1 959		
A 317 B 253 B1 591 C 694 C1 104 ON EXTERNAL FLOATED PLASTER SURFACES				
One coat alkali resistant primer and two coats			ļ	
superior quality acrylic emulsion paint for interior and exterior use				
Walls	m²	1 362	ļ	
A 240 B 172 B1 385 C 444 C1 121				
Carried to Collection			R	
Bill No. 15			ļ	
Paintwork		1	ļ!	
rantwork	ļ	ı I	<u> </u> '	

		Unit	Quantity	Rate	Amount	
	ON INTERNAL GYPSUM PLASTER SURFACES					
	One coat primer and two coats superior quality acrylic emulsion paint for interior and exterior use					
3	Ceilings and cornices	m²	1 494			
	A 260 B 156 B1 456					
	C 540 C1 82 ON FIBRE-CEMENT BOARD SURFACES					
	One coat alkali resistant primer and two coats					
	superior quality acrylic emulsion paint for interior and exterior use					
4	Fascias and barge boards, including priming metal jointing strips	m²	218			
	A 41 B 27 B1 62 C 70 C1 18					
	ON METAL SURFACES					
	One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel					
	paint, on steel					
5	Door frames	m²	35			
	A 5 B 8 B1 9 C 11 C1 2					
6	Windows	m²	286			
	A 48 B 22 B1 82 C 116 C1 18					
7	Gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m²	83			
	A 11 B 11 B1 34					
	C 23 C1 4 ON WOOD SURFACES					
	One coat primer and three coats premium quality					
	polyurethane enamel paint	2	00			
8	Doors A 11 B 19 B1 23	m²	83			
	C 26 C1 4					
	Carried to Collection			R		
	Bill No. 15					
	Paintwork					
	56					

			7 tillount	
BILL NO. 15 PAINTWORK COLLECTION		Page No		
	Brought Forward from Page	54 55 56		
Bill No. 15 Paintwork	Carried to Summary 57	R		

		Unit	Quantity	Rate	Amount	
DILL NO 40						
BILL NO. 16 EXTERNAL \	NORKS					
Key:	Location Description:					
Un/A	Unallocated					
A	Block A - 3 Class					
B B1	Block B- Admin & Kit Block B1 - 6 Class					
C	Block C - 7 Class					
C1	Block C1 - Comp Rm					
Ext I	External Works Item Location (Auto)					
	,					
	is referred to the relevant clauses in the					
	el Trades Preambles 2008 and to the					
	ry Preambles which are incorporated at the Bills of Quantities.					
Explosives						
	whatagover may be used for demalities					
	s whatsoever may be used for demolition ess otherwise stated					
<u>General</u>						
	or shall carry out the whole of the works with					
	and noise as possible and with minimum					
	o adjoining classroom blocks and their shall provide proper protection and provide,					
erect and rem	nove when directed, any temporary					
	t may be necessary during the progress of to the satisfaction of the principal agent					
Water supply	pipes and other piping that may be					
	and found necessary to disconnect or cut,					
	tually stopped off or grubbed up and I any new connections that may be					
	all be made with proper fittings, to the					
	f the principal agent					
Removal of I						
	ral is included in the heading, sub-heading					
	ption, prices shall be deemed to include for costs in removal and appropriate disposal					
	ncluding but not limited to labour,					
	and disposal costs. No further claims in ll be entertained.					
DEMOLITION						
Demolish an						
	reinforced concrete to walkways	m²	251			
Ext 251						
LAL ZJI						
	Carried to Collection			R		
Bill No. 16						
External World	(9					
External WOI	58					
	50		ı l		II I	

		Unit	Quantity	Rate	Amount	
	THE FOLLOWING IN SITE WORKS					
2	Excavation in earth not exceeding 2m deep to reduce levels under pavings and stockpile on site	m³	70			
3	Ext 70 Take from stockpile and spread and consolidate topsoil over site including compaction to 93% Mod AASHTO	2				
	density.	m³	98			
4	Ext 98 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.	m²	468			
	Ext 468					
5	Earth filling of approved G5 material in accordance with the relevant part of SANS 10400, supplied by the Contractor and filled to defined levels and compacted to a minimum density of 95% Mod AASHTO density.	m³	70			
	Ext 70					
6	Course river sand filling under floors etc., supplied by the contractor.	m³	23			
7	Ext 23 In-situ dry density test in accordance with method A10(b) of TMH1	No	14			
	Ext 14					
8	Maximum dry density test and optimum moisture content test in accordance with method A7 of TMH1	No	9			
	Ext 9 THE FOLLOWING IN STORMWATER CHANNELS TO BUILDINGS					
	<u>Earthworks</u>					
9	Excavation in earth not exceeding 2m deep to reduce levels	m³	83			
	Ext 83					
10	Extra over excavations for carting away excavated material to a dumping site to be located by the contractor	m³	83			
11	Ext 83 Compaction of ground surface under floor, etc including scaryfing for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% MOD AASHTO Density	m²	1 102			
	Ext 1102	***				
	Carried to Collection			R		
	Dill No. 16					
	Bill No. 16 External Works					
	External Works 59					
l	, , , , , , , , , , , , , , , , , , ,		ı İ		II I	

		Unit	Quantity	Rate	Amount
12	Earth filling of G5 material in accordance with SABS				
	1200 DM, compacted to 98% MOD AASHTO density in under floors	m³	83		
13	Ext 83 Approved brand of anti-termite soil poison applied under floors by a registered pest control company and guaranteed against termites infestation for 10 years	m²	1 102		
	Ext 1102 Soil Poisoning Certificate				
14	Issue of Soil Poisoning Certificate by registered and authorised entity.	Item			
	Un/A 1 Reinforced concrete cast in-situ channels:				
15	2000mm Wide x 130mm thick overall mesh reinforced concrete "V"-shaped stormwater channels(1000mm wide) and apron slab (1000mm wide) combination of 25 Mpa/19mm concrete construction, "V" -shaped stormwater channel section to be 100mm thick at centre of 500mm wide adjacent surfaces, and both "V" -shaped stormwater channel and apron slab with and including Ref 193 mesh reinforcement, 250 micron "Console Plastics Gunplas Black" or other approved waterproof sheeting and rough formwork (Degree of Accuracy III) not exceeding 300mm high extreme to vertical edges of channels and apron slabs. Channels and apron slabs to be cast in 1000mm long panels, with and including bitumen impregnated fibreboard joints between adjacent panels and between panels and adjacent brick walls with approved joint sealant to all joints, and the whole to have a wood floated finish		551		
16	Ext 551 Extra over 2000mm wide concrete stormwater channel for corner	m No	20		
	Ext 20 THE FOLLOWING IN HEADWALLS				
17	Excavation in earth not exceeding 2m deep: Holes	m³	5		
18	Ext 5 Trenches	m³	1		
	Un/A 1 Extra over all excavations for carting away:				
19	Surplus material from excavations and/or stockpiles on site, to a dumping site to be located by the contractor Un/A 4	m³	4		
	Carried to Collection			R	
	Bill No. 16 External Works				
	60				

		Unit	Quantity	Rate	Amount	
	Risk of collapse					
20	Sides of trenches and hole excavations not exceeding 1.5m deep	m²	16			
	Un/A 16 Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to 95% MOD AASHTO					
21	Backfilling behind retaining walls	m³	1			
	Un/A 1					
22	Compaction of surfaces 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 95% MOD AASHTO density	m²	5			
	Un/A 5 Stone pitching of approximately 19mm diameter river stones tightly packed including preparation of ground surface under;					
23	Against cut-off walls	m³	5			
	Un/A 5 Soil insecticide in accordance with SANS 5859:					
24	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m²	6			
25	Un/A 6 To bottom of and sides of trenches, etc	m²	10			
	Un/A 10					
00	25MPa/19mm Concrete:	3				
26	Splitter blocks Un/A 1	m³	1			
27	Surface beds	m³	1			
28	Un/A 1 Strip footings	m³	1			
	Un/A 1 Finishing concrete smooth with a power float					
29	Surface beds, etc to falls	m²	6			
	Un/A 6 Rough formwork to sides					
30	Sides of splitter blocks not exceeding 300mm high	m	5			
	S 0					
	Carried to Collection			R		
	Bill No. 16					
	External Works					
	61					

		Unit	Quantity	Rate	Amount	
	Fabric reinforcement:					
31	Type 193 fabric reinforcement in concrete surface beds, etc	m²	9			
	Un/A 9 Face bricks pointed with flush horizontal and vertical joints					
32	One brick wall pointed both sides	m²	3			
	Un/A 3 Brick-on-edge header course copings, sills, etc of "Corobrik Firelight Satin FBX" face bricks, pointed with flush joints on all exposed faces:					
33	Ditto, but raking	m	6			
34	Un/A 6 220mm Copings on top of one brick walls	m	2			
	Un/A 2 Sundries					
35	Forming opening in one brick wall for 450mm diameter pipe, and making good all edges, etc	No	2			
	Un/A 2 STORMWATER DRAINAGE (CPAP WORK GROUP NO. 146)					
	Class 100D concrete pipes with interlocking joints					
36	450mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	45			
	Ext 45 Sumps, catchpits, inspection chambers, etc. including concrete kerbs or precast concrete cover slabs, gratings and covers					
37	Construct 230mm brick catchpit approximately 1255mm x 940mm overall size on plan and approximately 1100mm high, including excavation in earth and cartaway all excess material, 25MPa concrete surface bed with 2 layers of 395 Mesh, concrete benching for 450mm diametre pipe including 520 x 790 heavy duty stormwater grating and frame all as per attached engineering drawing number 04	No	6			
	Ext 6					
	Carried to Collection			R		_
	Bill No. 16					
	External Works					
	62					

BILL NO. 16 EXTERNAL WORKS COLLECTION		Page No	
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	Carried to Summary	R	
Bill No. 16 External Works	63		

			Amount
Bill No.	SUMMARY	Page	
1	ALTERATIONS	11	
2	EARTHWORKS	15	
3	CONCRETE, FORMWORK AND REINFORCEMENT	18	
4	MASONRY	21	
5	WATERPROOFING	22	
6	ROOF COVERINGS	26	
7	CARPENTRY AND JOINERY	32	
8	CEILINGS PARTITIONS AND ACCESS FLOORING	35	
9	FLOOR COVERINGS	36	
10	IRONMONGERY	39	
11	METALWORK	42	
12	PLASTERING	46	
13	PLUMBING AND DRAINAGE	52	
14	GLAZING	53	
15	PAINTWORK	57	
16	EXTERNAL WORKS	63	
	Carried to Next	R	
	SUMMARY 64	K	

	ELECTRICAL L. CURRI V. AND.					
ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND INSTALL	AMOUNT	
Bill No.1	PRELIMINARIES AND GENERAL					
	Fixed Cost Items:					
1	Contractual requirements	sum	1			
2	Co-operation and Programming with others	sum				
3	Clearing of site on Contract completion	sum				
4	Name Board	ea				
5	Ablution and latrine facilities	sum				
6	Office and storage facilities	sum				
7	Access	sum				
8	Tools and equipment	sum				
9	Living accommodation	sum				
10	Supervision during construction	sum	1			
11	Temporary construction electrical connection	sum	1			
12	Compliance with OHS Act Requirements	sum	1			
13	Other fixed charge obligations	sum	1			
14	Health and Safety Plan	sum	1			
15	Submission of commencement and completion					
	form/cards to eThekwini Electricity	sum	1			
	Time Dependant Costs:					
16	Contractual requirements	sum	1			
17	Storage and protection of materials and equipment	sum	1			
18	Contract Insurance	sum	1			
19	Operate and maintain facilities on site	sum	1			
20	Office and storage facilities	sum	1			
21	Tools and equipment	sum	1			
22	Ablution and latrine facilities	sum	1			
23	Access	sum	1			
24	Living accommodation	sum	1			
25	Supervision during construction	sum	1			
26	Temporary construction electrical connection	sum	1			
27	Other time dependant obligations	sum	1			
28	Compliance with OHS Act Requirements	sum	1			
	Additional Items:					
29	Any additional items that the Tenderer may wish to detail	sum	1			
	TOTALS FOR BILL NO.1 (EXCLUDING VAT)					

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND INSTALL	AMOUNT
Bill No.2	ELECTRICAL INSTALLATION Refer to the specification and drawings				
	Distribution Boards and DB Equipment Supply and Install Form 1 Separation, 5kA rated Distribution Boards as specified below, complete with mounting accessories and etc. (Switchgear measured under DB Equipment).				
2	24 Way Flush Mounted Distribution Board including Metal Cover with cutout, Mandatory Warning Signage, Flush Galvanized tray, Mounting Rails for switchgear, 2 x Neutral Bars and Earth bar. 12 Way Flush Mounted Distribution Board including Metal Cover with cutout, Mandatory Warning Signage,	No	5		
3	Flush Galvanized tray, Mounting Rails for switchgear, 2 x Neutral Bars and Earth bar. 12 Way Surface Mounted Distribution Board including Metal Cover with cutout, Mandatory Warning Signage, Surface Metal Box Housing, Mounting Rails for switchgear, 2 x Neutral Bars and Earth bar.	No	1		
	Supply and Install the following 6kA rated Switchgear Equipment into the above Distribution boards as specified below, including busbars, rated wiring tails and labelling.	No	2		
4 5 6 7 8 9 10 11	80A DP 6kA Isolator (Main Switch) 63A DP 6kA Isolator (Main Switch) 63A DP Earth Leakage Isolating Unit with 30mA trip rating. 5A SP 6kA MCB (PEC circuit) 10A SP 6kA MCB (Lights, Feeder Circuit) 20A SP 6kA MCB (Plugs, Airconditioner, Feeder Circuit) 30A SP 6kA MCB (Stove Circuit) 20A 4P Contactor with 230V Coil (Exterior Light control).	No No No No No No	1 4 8 8 26 19 1		
12 13 14 15	20A DP Contactor with 230V Coil (Exterior Light control) 16A 1 Way Light Switch mounted in DB (Bypass Switch for PEC circuit) Type 2 6kA Surge Arrester 1P + N with indicators. Blank Covers for Spare Ways in Cutouts.	No No No No	7 8 8 55		

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND INSTALL	AMOUNT
	Wiring Channel				
	Supply and Install OL2000 galvanised steel horizontal				
	Wiring Channel as specified.				
16	Hot dipped galvanised OL2000 trunking or similar				
	approved, complete with OL2000 PVC covers, T-off,				
	Elbows, 20mm dia knock-outs (suitable for 20mm				
	diameter conduit) at 300mm centres on both sides and				
	including approved hangers at 1200mm centres, suspended from roof trusses or concrete slabs on M12				
I I	threaded bolt not exceeding 1200mm down (NB: Any				
I I	drilling onto slabs shall be approved by Structural				
	Engineer prior commencement)	m	60		
	Conduit and Conduit Accessories				
	Supply and Install Conduit and conduit accessories as				
	specified.				
17	20mm Diameter PVC conduit including bends, T-offs,				
I I	saddles, joints, etc, fastened on surface.	m	1550		
I I	20mm Diameter PVC conduit including bends, T-offs,		EOE		
I I	saddles, joints, etc, chased into brickwork 20mm Diameter Galvanized conduit including bends, T-	m	585		
	offs, saddles, joints, etc, fastened on surface.				
	, , , , , , , , , , , , , , , , , , ,	m	110		
	25mm Diameter Galvanized conduit including bends, T-				
	offs, saddles, joints, etc, fastened on surface.		00		
21	32mm Diameter PVC conduit including bends, T-offs,	m	80		
	saddles, joints, etc, fastened on surface.	m	15		
	32mm Diameter PVC conduit including bends, T-offs,				
I I	saddles, joints, etc, chased into brickwork	m	25		
	32mm Diameter Galvanized conduit including bends, T-				
	offs, saddles, joints, etc, fastened on surface.	m	35		
24	40mm Diameter Galvanized conduit including, saddles,		00		
	joints, etc, fastened on surface for kicker Pipe.				
		m	15		
25	PVC 60mm Diameter round box Flush or Surface				
	mounted, complete with cover for 20mm Diameter PVC Conduit.	No	150		
26	Galvanized 60mm Diameter round box Surface mounted,		.00		
	complete with cover for 20mm diameter conduit.				
		No	30		
27	Galvanized 50mm x 100mm box Flush mounted for 20mm Diameter Conduit.	No	40		
28	Galvanized 100mm x 100mm box Flush mounted for	INO	40		
	20mm Diameter Conduit.	No	50		
29	Galvanized 60mm Diameter round box Surface mounted,				
	complete with cover for 25mm diameter conduit.	No	5		
30	Galvanized 100mm x 100mm box Flush mounted for	INO	5		
	32mm Diameter Conduit.	No	5		
31	Mild Steel 50mm x 100mm box Surface mounted for				
	20mm Diameter Conduit.	No	40		
	Mild Steel 100mm x 100mm box Surface mounted for 20mm Diameter Conduit.	No	50		
1	ZVIIIII DIAIIICICI CUIIUUII.	INU	50		

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND	AMOUNT
				INSTALL	7
33	Mild Steel 100mm x 100mm box Surface mounted for 32mm Diameter Conduit.	No	5		
34	PVC or Galvanized ends for 20mm Diameter Conduit.	No	40		
35	PVC or Galvanized ends for 25mm Diameter Conduit.	No	1		
36	PVC or Galvanized ends for 32mm Diameter Conduit.				
		No	5		
	Conductors Supply and Install conductors into Wiring Channel, Conduit and/or Power Skirting as specified.				
37 38	1.5mm² PVC insulated stranded copper conductor 2.5mm² PVC insulated stranded copper conductor	m m	5800 2200		
39	4mm² PVC insulated stranded copper conductor	m	500		
	Light Switches, Isolators and Socket Outlets: Supply and Install light switches, Isolators and Sockeyt Outlets onto Flush or Surface mounted boxes (not including boxes).				
1 41	Crabtree or similar approved single toggle <u>one way</u> 16A light switch complete with white engraved/labelled cover plate. Crabtree or similar approved <u>single</u> 16A RSA three-pin V-	No	26		
71	Slim switched socket outlet complete with white engraved/labelled cover plate.	No	45		
42	Crabtree or similar approved <u>Double</u> 16A three-pin switched socket outlet complete with white				
43	engraved/labelled cover plate. Crabtree or similar approved surface 5A Un-Switched Socket Outlet Mounted within 0.5m of the light fitting, Complete with white engraved/labelled cover plate.	No	1		
	complete with white engraved/labelled cover plate.	No	100		
	Light Fittings and Equipment Supply and Install light fittings and equipment as specified.				
44	Type A - 1200mm 2 Lamp 16W LED Cool White Linear surface mounted Luminaire, SABS approved.	No	90		
45	Type B - Round IP65 20W LED Bulkhead Luminaire, SABS approved.	No	60		
46	Type C - Industrial 70W 3 x Metal Blade Ceiling Fan supplied complete with Wall Control Unit, SABS	10			
47	approved.	No	20		
47	Type D - Round IP 65 40W LED Pole Top luminaire, supplied complete with 4,1m Black Painted Galvanized	NI.	_		
48	metal 60mm Diameter poles. Royce Thompson Microstar 1000 Miniature Photocell Switch Installed in a ABB J1 Junction Box IP 65 Rated,	No	5		
	Complete with Circuit Designation information	No	10		

	T				L INSTALLATIO
ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND INSTALL	AMOUNT
	a				
	Power Skirting				
	Supply and Install PVC 2 Compartment Power Skirting,				
	complete with covers, base cover joints and individual				
	cover joints, 90 degree internal bends and equipment				
	and accessories as specified below.				
49	2 Compartment, 2 cover PVC Power Skirting spupplied				
73	complete with covers.	m	60		
50	· ·	l m	l		
50	90 degree Internal PVC Power Skirting bends	No	4		
51	PVC Power Skirting End Caps	No	4		
52	PVC Power Skirting Base Cover Joints	No	16		
53	PVC Power Skirting Cover Joints	No	32		
54	Crabtree or similar approved single 16A three-pin				
	switched socket outlet complete with white				
	engraved/labelled cover plate mounted on Power				
	Skirting.	No	8		
55	RJ 45 Data Outlet including cradle and cover on Power	''			
33	I = = = = = = = = = = = = = = = = = = =	No	8		
F.C.	Skirting.	110	0		
56	RJ 11 Telephone Outlet including cradle and cover on	l Na			
	Power Skirting.	No	8		
	Testing, Commissioning and As-Builts				
57	Testing and commissioning and Compliance Certificate				
37					
	for the complete Electrical Installation including Test				
	report to SANS and OHSAct requirements.	١	١.		
		No.	1		
58	Preparation and handing over of "As Built" drawings,				
	indicating all conductor routes, exact spike positions and				
	depths and provision of all test certificates for the entire				
	building.	Sum	1		
59	Allow for full testing, balancing and commissioning the				
	entire electrical installation.	Sum	1		
	TOTALS FOR BILL NO.2 (EXCLUDING VAT)				

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND INSTALL	AMOUNT
Bill No.3	SITE RETICULATION				
	Refer to the specification and drawings				
	Trenches Excavation of trenches as specified.				
1 2	Cable or sleeve trenches not exceeding 1m deep Extra over excavations for cable or sleeve trenches in	m³	50		
3	soft rock Extra over excavations for cable or sleeve trenches in hard rock	m³ m³	10 5		
	Cable Sleeves Supply and Installation of cable sleeves in trenches as specified.		3		
4 5	50mm Diameter u-PVC cable sleeve piping including short lengths, jointing and bends 75mm Diameter u-PVC cable sleeve piping including	m	110		
	short lengths, jointing and bends	m	100		
	Cables Supply and Installation of cables layed in ground,drawn through cable sleeves and installed on cable tray, including for wastage.				
6 7 8	25mm² x 3c, Cu, PVC/PVC/SWA-ECC/PVC 6mm² x 3c, Cu, PVC/PVC/SWA-ECC/PVC 4mm² x 3c, Cu, PVC/PVC/SWA-ECC/PVC	m m m	35 165 400		
	Cable Terminations Supply and Installation of Cable Terminations, including glanding onto DB.				
9 10 11	25mm² x 3c, Cu, PVC/PVC/SWA-ECC/PVC 6mm² x 3c, Cu, PVC/PVC/SWA-ECC/PVC 4mm² x 3c, Cu, PVC/PVC/SWA-ECC/PVC	No. No. No.	2 6 20		
	Cable Warning Tape Supply and Installation of cable warning tape 300mm above cable in trenches.				
12	Cable warning tape	m	210		
	Draw Wire Supply and Installation of Draw wire in cable sleeves.				
13	1.2mm Diameter galvanized draw wire	m	210		
	Testing and Commissioning				
14	Testing and commissioning and Compliance Certificate for the complete Electrical Installation including Test report to SANS and OHSAct requirements	N1-	4		
		No.	1		
	TOTALS FOR BILL NO.3 (EXCLUDING VAT)				

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND INSTALL	AMOUNT
Bill No.4	EARTHING AND LIGHTNING PROTECTION				
	Refer to the specification and drawings				
	Earthing and Lightning Protection Installation Supply and Installation of Lightning Protection and earthing equipment by specialist contractor as specified.				
1 2 2	1.8m x 16mm diameter copper earth electrodes driven into the ground, complete with brass coupling between rods (Bearing SABS Mark) 16mm Diameter copper earth spike clamp	No No	35 35		
3 4	25mm Diameter Galvanised conduit including bends, T-offs, saddles, joints, etc. Flush mounted S15 Duo weatherproof york box test	m	140		
5	complete with PVC sliding lid and stainless steel screws (mounted at 300mm Above finish floor level) 10mm² Aluminium Roof conductor 70mm² Stranded PVC insulated Copper Down Conductor	No m	35 35		
7	70mm² Bare Copper earth conductor	m m	140 500		
8	Bonding joints, etc. complete for 70mm² conductor, including lugs, nuts, bolts and washers Provisional Sum for Unforseen Earthing and Lightning	Sum	1		
	Protection Compliance Testing and Commissioning	Sum	1	R 50 000.00	
10	Survey site and provide soil resistivity tests, conduct risk assessment & report, detailed installation drawings for Engineers comment, etc, prior to commencement of installation and procurement of materials				
11	Issue earthing and lightning protection certificates for	Sum	1		
12	each of the earthing and lightning protection systems installed Allow for Earthing / Bonding of water pipes, DB's and	Sum	1		
	kiosks complete as required by the applicable regulations and consultant's specification	Sum	1		
	TOTALS FOR BILL NO.4 (EXCLUDING VAT)				

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY AND INSTALL	AMOUNT
Bill No.5	ADDITIONAL ITEMS				
	Refer to the specification and drawings				
	Schedule of Additional Equipment				
1	Make safe, disconnect and dispose off-site the entire schools redundant electrical installation (All inclusive)	Sum	1		
2	Schedule any additional equipment to ensure a fully operational system not included in this Bill of quantities. Furnish details:-	Sum	1		
	TOTALS FOR PART 5 (EXCLUDING VAT)				

SUMMARY	
BILL NO.1 - PRELIMINARIES AND GENERAL	
BILL NO.2 - ELECTRICAL INSTALLATION	
BILL NO.3 - SITE RETICULATION	
BILL NO.4 - LIGHTNING PROTECTION AND EARTHING	
BILL NO.5 - ADDITIONAL ITEMS	
TOTAL A (EXCLUDING VAT) =	

			isibanise2we				
m			Quantity	Rate		Amount R	
	PROVISIONAL SUMS - SECTION 4						
	Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.						
	MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS						
	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Manufacturers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R22 714,7	0	R22 714,70	
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%					
	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%					
	MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS						
	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in C3.1 Project Specifications. Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R22 714,7	0	R22 714,70	
	Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%					
	Allowance for attendance all inclusive of associated costs to the contractor for implementation	%					
				R			_
							=
	Carried Forward to Summary of Section No.						
	SECTION NO.4 - PROVISIONAL SUMS Bill No. 1 Provisional Sums						

		Quantity	Rate	Amount R
MINIMUM TARGETED ENTERPRISE DEVELOPMENT A provisional amount has been allowed for in the execution of this project as described in C3.1 Project Specifications. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PS	1	R208 719,86	R208 719,86
Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
LABOUR INTENSIVE PARTICIPATION GOAL				
Labour Intensive Participation Goal - Allowance for monthly reporting of labour intensive works by main contractor based on determination by Employer taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors based on determination by Employer taking into account specific project variables	PS	1	R72 000,00	R72 000,00
Allowance for profit all inclusive of associated costs to the contractor for implementation.	%			
Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
Carried to Collection SECTION NO.4 – ASBESTOS REPLACEMENT Bill No. 1 Provisional Sums			R	

Item No

			Isik	oanisezwe SS
MINIMUM 30% SUB-CONTRACTING				
Provision is made for 30% subcontracting to SMMEs in the execution of this project as described in C3.1 Project Specifications. This is the contractors allowance for the P&G's for the 30% sub-contractors (SMME's). The Employer will define the actual P&G items applicable to the SMME's after tender award	PS	1	R235 097,12	R235 097,12
Allowance for profit and attendance, all inclusive of associated costs to the contractor for implementation.	%			
Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%			
Carried Forward to Summary of Section No.				
SECTION NO.4 - PROVISIONAL SUMS			R	
Bill No. 1 Provisional Sums				

			Amount	
	Final Summary - Bills of Quantities			
		Page		
1	Preliminaries	P 25		
2	Builders Work	64		
3	Electrical	E9		
4	Provisional Sums	3		
	Sub Total			
	CONTINGENCY AMOUNT			
	Allow 5% Contingency Amount for the unforeseen and			
	the sum provided is under the sole control of the client and upon approval by the Client Representative and			
	deducted in whole or in part.			
	Sub Total before VAT			
	ADD VAT @ 15%			
	Carried to Form of Offer and Acceptance	R		
	FINAL CLIMMADY CARRIED TO FORM OF OFFER			
	FINAL SUMMARY CARRIED TO FORM OF OFFER AND ACCEPTANCE			
			I	