Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 1				
	BILL NO. 1				
	PRELIMINARIES				
	BUILDING AGREEMENT AND PRELIMINARIES				
	The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described				
	The JBCC Principal Building Agreement contract data form an integral part of this agreement				
	The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities , amended as hereinafter described				
	The contractor is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause				
	The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only				
	Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"				
	Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents				
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	PREAMBLES FOR TRADES				
	The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by intervalia referring to SANS construction standards. Where such preambles are not applicable (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard				
	Method of Measuring Building Work for Africa 2015 (first edition) is the same The latest version of the General Preambles for Trades				
	should be referred to should the General Preambles for Trades 2017 be revised in future				
	The General Preambles for Trades 2017 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 General Preambles will be entertained				
	Supplementary preambles and/or specifications are ncorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles				
,	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and n any supplementary preambles and/or specifications				
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ection A : A recital of the headings of the individual clauses in the aforementioned JBCC		
clauses in the aforementioned JBCC		
Principal Building Agreement		
ection B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries		
ection C : Any special clauses to meet the particular circumstances of the project		
RICING OF PRELIMINARIES		
hould the contractor select Option A in the contract ata for the adjustment of preliminaries , the amounts ntered against the relevant items in these reliminaries are to be divided into one or more of the ree categories provided namely fixed (F), value related //) and time related (T)		
ECTION A: PRINCIPAL BUILDING GREEMENT		
terpretation (A1-A7)		
lause 1.0 - Definitions and interpretation		
ricing of bills of quantities		
the contractor is to allow opposite each item for all posts in connection therewith. All prices to include, alless otherwise stated, for all materials, fabrication, proveyance and delivery, unloading, storing, unpacking, positing, labour, setting, fitting and fixing in position, atting and waste (except where to be measured in eccordance with the standard system of measurement), atterns, models and templates, plant, temporary works, eturning of packaging, duties, taxes (other than Value dded Tax), imposts, establishment charges, verheads, profit and all other obligations arising out of its agreement . Value Added Tax (VAT) is to be exparately stated on the summary page of these bills of uantities		
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	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 contractor's omission to price any item will be entertained				
	Prices for all construction equipment , temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary				
	Abbreviated descriptions				
	The items in these bills of quantities utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of international best practice				
	Legal status of contractor				
	If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:				
	These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement				
	These persons shall notify the employer of their leader who has assigned authority to bind the contractor and each of these persons				
	The contractor shall not alter its composition or legal status without the prior written consent of the employer				
	F: T:	Item			
2	Clause 2.0 - Law , regulations and notices				
	F:V:				
	T:	Item			
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3	Clause 3.0 - Offer and acceptance				
	F: T:				
		Item			
4	Clause 4.0 - Cession and assignment				
	F: V:	Item			
5	Clause 5.0 - Documents				
	Value Added Tax				
	Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)				
	The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any				
	Electronic issue of drawings				
	All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]				
	F: T:	Item			
6	Clause 6.0 - Employer's agents				
	Delegated authority				
	The authority of the principal agent to issue contract instructions [17.1] and perform duties for specific aspects of the works is delegated to agents as follows [6.2]. This does not preclude the principal agent from issuing such contract instructions :				
	1. Architect				
	Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA				
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	Brought Forward
1.1 Dut	ties [6.2] :
	chitect is responsible for the architectural design, nal design and quality inspection of the works
1.2 Co ı	ntract instructions [6.2; 17.1] :
1.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement
1.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works
1.2.3	The site [13.0]
1.2.4	Compliance with the law , regulations and bylaws [2.1]
1.2.5	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works
1.2.6	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
1.2.7	Removal or re-execution of work
1.2.8	Removal or substitution of any materials and goods
1.2.9	Protection of the works
1.2.10	Making good physical loss and repairing damage to the works [23.2.2]
1.2.11	Rectification of defects [21.2]
1.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion
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1.2.13 Expenditure of budgetary cost amounts and provisional sums	allowances, prime		
1.2.14 Appointment of a subcon	tractor [14.0; 15.0]		
1.2.15 Work by direct contracto	ors [16.0]		
1.2.16 On suspension or terminal works, removal of construction equipment materials and goods [29.	and surplus		
2. <u>Quantity surveyor</u>			
2.1 Duties [6.2] :			
The quantity surveyor is responsib measurements, valuations, financiall other quantity surveying and cothe works	al assessments and		
2.2 Contract instructions [6.2; 17	7.1]:		
2.2.1 No contract instructions dequantity surveyor ?	elegated to the		
3. <u>Civil and structural engineer</u>			
Note that the contract instructions selected from those listed in clause PBA			
3.1 Duties [6.2] :			
The civil and structural engineer is aspects of civil and structural engingularity inspection of the works			
3.2 Contract instructions [6.2; 17	7.1]:		
3.2.1 Rectification of discrepand description or quantity or of the agreement other than Building Agreement	mission of items in		
3.2.2 Alteration to design, stand works provided that such instructions shall not sub scope of the works	contract		
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3.2.3	The site [13.0]		
3.2.4 bylaws	Compliance with the law , regulations and [2.1]		
3.2.5	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works		
3.2.6	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
3.2.7	Removal or re-execution of work		
3.2.8 goods	Removal or substitution of any materials and		
3.2.9	Protection of the works		
	Making good physical loss and repairing to the works [23.2.2]		
3.2.11	Rectification of defects [21.2]		
3.2.12	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion		
3.2.13	Expenditure of budgetary allowances , prime cost amounts and provisional sums ?		
4. <u>Mec</u>	hanical engineer		
	nat the contract instructions hereinafter are ed from those listed in clause 17.1 of the JBCC		
4.1 Du	ties [6.2] :		
of med of the v for qua mecha valuati	echanical engineer is responsible for all aspects chanical engineering design and quality inspection works? and, where appointed by the employer antity surveying services in respect of the nical installations, for all measurements, ons, financial assessments and all other quantity ing and cost control functions		
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4.2 Co	ntract instructions [6.2; 17.1] :			
4.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
4.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
4.2.3 oylaws	Compliance with the law , regulations and [2.1]			
4.2.4	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
4.2.5	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
4.2.6	Removal or re-execution of work			
.2.7 joods	Removal or substitution of any materials and			
1.2.8	Protection of the works			
4.2.9	Making good physical loss and repairing damage to the works [23.2.2]			
4.2.10	Rectification of defects [21.2]			
4.2.11	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
4.2.12	Expenditure of budgetary allowances, prime cost amounts and provisional sums?			
5. <u>Elec</u>	trical engineer			
	nat the contract instructions hereinafter are ed from those listed in clause 17.1 of the JBCC			
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5.1 Du	ities [6.2] :	
electric the wo quantit installa assess	ectrical engineer is responsible for all aspects of cal engineering design and quality inspection of cal engineering design and quality inspection of cal engineering design and quality inspection of call of the employer for the surveying services in respect of the electrical ations, for all measurements, valuations, financial sments and all other quantity surveying and cost I functions	
5.2 Co	ontract instructions [6.2; 17.1] :	
5.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement	
5.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works	
5.2.3 bylaws	Compliance with the law , regulations and [2.1]	
5.2.4	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works	
5.2.5	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
5.2.6	Removal or re-execution of work	
.2.7 oods	Removal or substitution of any materials and	
5.2.8	Protection of the works	
.2.9	Making good physical loss and repairing damage to the works [23.2.2]	
5.2.10	Rectification of defects [21.2]	
5.2.11	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion	
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5.2.12	Expenditure of budgetary allowances , prime cost amounts and provisional sums ?		
6. <u>Wet</u>	services engineer		
	nat the contract instructions hereinafter are and from those listed in clause 17.1 of the JBCC		
6.1 Du	ties [6.2] :		
of wet	et services engineer is responsible for all aspects services engineering design and quality tion of the works		
6.2 Co	ntract instructions [6.2; 17.1] :		
6.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement		
6.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works		
6.2.3 bylaws	Compliance with the law , regulations and [2.1]		
6.2.4	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works		
6.2.5	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
5.2.6	Removal or re-execution of work		
6.2.7 goods	Removal or substitution of any materials and		
6.2.8	Protection of the works		
6.2.9	Making good physical loss and repairing damage to the works [23.2.2]		
6.2.10	Rectification of defects [21.2]		
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6.2.11	A list for practical completion specifying outstanding or defective work to be rectified to			F
	achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
6.2.12	Expenditure of budgetary allowances , prime cost amounts and provisional sums ?			
7. <u>Fire</u>	<u>consultant</u>			
	at the contract instructions hereinafter are d from those listed in clause 17.1 of the JBCC			
7.1 Dut	ies [6.2] :			
	e consultant is responsible for all aspects of fire design and quality inspection of the works			
7.2 Co i	ntract instructions [6.2; 17.1] :			
7.2.1	Rectification of discrepancies, errors in description or quantity or omission of items in the agreement other than in the JBCC Principal Building Agreement			
7.2.2	Alteration to design, standards or quantity of the works provided that such contract instructions shall not substantially change the scope of the works			
7.2.3 bylaws	Compliance with the law , regulations and [2.1]			
7.2.4	Provision and testing of samples of materials and goods and/or of finishes and assemblies of elements of the works			
7.2.5	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]			
7.2.6	Removal or re-execution of work			
7.2.7 goods	Removal or substitution of any materials and			
7.2.8	Protection of the works			
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	7.2.9	Making good physical loss and repairing damage to the works [23.2.2]			
	7.2.10	Rectification of defects [21.2]			
	7.2.11	A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion, a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion			
	7.2.12	Expenditure of budgetary allowances , prime cost amounts and provisional sums ?			
	8. <u>Heal</u>	th and safety consultant			
	8.1 Dut	ies [6.2] :			
	aspects derogates safety of function	alth and safety consultant is responsible for all soft health and safety of the works. Without ting from the generality thereof, the health and consultant will perform the following specific as and duties in respect of the health and safety soft the works. He shall:			
	8.1.1	Act as the employer's agent in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act,1993 as amended			
	8.1.2 specific	Prepare and update the health and safety ation for the works			
	8.1.3 plan foi	Agree with the contractor the health and safety the works			
	8.1.4	Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations			
	8.1.5	Stop the execution of the works where the agreed specification or plan is not adhered to?			
		V:	Item		
7	Clause	7.0 - Design responsibility			
			ltem		
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	Insurances and securities (A8-A11)			
8	Clause 8.0 - Works risk			
	F:V:	Item		
9	Clause 9.0 - Indemnities			
	F: T:	Item		
10	Clause 10.0 - Insurances			
	F: T:	Item		
11	Clause 11.0 - Securities			
	Guarantee for payment			
	The employer shall not provide to the contractor a guarantee for payment			
	[11.5.1]. The contractor shall consequently waive his lien or right of continuing possession of the works [11.10]?			
	Extension of waiver of lien			
	The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]			
	F: T:	Item		
	Execution (A12 - A17)			
12	Clause 12.0 - Obligations of the parties			
	Office accommodation			
	The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site . Such offices shall be kept clean and fit for use at all times [12.2.18]			
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	Notice board		
	The contractor shall erect in a position approved by the principal agent , maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer , the contractor and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]		
	Statutory and other notices		
	The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor . The contractor shall pay all deposits or fees in this regard		
	It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto		
	F: T:	Item	
13	Clause 13.0 - Setting out		
	F: T:	Item	
14	Clause 14.0 - Nominated subcontractors		
	F: T:	Item	
15	Clause 15.0 - Selected subcontractors		
	F: T:	Item	
16	Clause 16.0 - Direct contractors		
	Attendance on direct contractors		
	In respect of direct contractors the contractor shall:		
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	Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials	3			
	Allow the use of personnel welfare facilities, where provided				
	3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation				
	4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor , in common with others having the like right, while it remains erected on the site [16.1]				
	F: T:		Item		
17	Clause 17.0 - Contract instructions				
	? Site instructions				
	Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor ?				
	F:V:				
	T:		Item		
	Completion (A18 - A24)				
18	Clause 18.0 - Interim completion		N/A		
19	Clause 19.0 - Practical completion				
	F:V:				
	T:		Item		
20	Clause 20.0 - Completion in sections				
	F: T:		Item		
21	Clause 21.0 - Defects liability period and final completion				
	F: T:		Item		
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22	Clause 22.0 - Latent defects liability period			
	F: T:	Item		
23	Clause 23.0 - Revision of the date for practical completion			
	Substitution of materials and goods			
	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2]			
	F: T:	Item		
24	Clause 24.0 - Penalty for late or non-completion			
	F: T:	Item		
	Payment (A25 - A27)			
25	Clause 25.0 - Payment			
	Prices submitted			
	Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate , there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion , it shall be in writing			
	F: T:	Item		
26	Clause 26.0 - Adjustment of the contract value and final account			
	Fluctuations in costs			
	All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5]			
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	Tenant installation/user requirements delayed			
	There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to practical completion			
	Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works			
	The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission?			
	Cost of claims			
	All costs incurred by the contractor in the preparation of claims shall be borne by the contractor . This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6 & 7] from making a determination on costs			
	Claims from subcontractors			
	The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]			
	F: T:	Item		
27	Clause 27.0 - Recovery of expense and/or loss			
	F: T:	Item		
	Suspension and termination (A28 - A29)			
28	Clause 28.0 - Suspension by the contractor			
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	F: V:	Item			
29	Clause 29.0 - Termination				
	F: V:	Item			
	Dispute resolution (A30)				
30	Clause 30.0 - Dispute resolution				
	F: T:	Item			
31	Agreement				
	The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties				
	F: T:	Item			
32	Contract data				
	Before submission of his tender the contractor is to complete the tenderer's selections in the contract data				
	F: T:	Item			
	SECTION B: GENERAL PRELIMINARIES				
	Should it be necessary to expand on any of the General Preliminaries clauses, the user should list the appropriate General Preliminary clause number and heading and insert the relevant provision under a suitable heading in bold as may be necessary				
	Definitions and interpretation (B1)				
33	Clause 1.1 - Definitions				
	F: V:	Item			
34	Clause 1.2 - Interpretation				
	F: V:	Item			
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	Documents (B2)			
35	Clause 2.1 - Checking of documents			
	F: T:	Item		
36	Clause 2.2 - Provisional bills of quantities			
	Multiple procurement			
	These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or provisional sums			
	F: T:	Item		
37	Clause 2.3 - Availability of construction information			
	F: V:			
	T:	Item		
38	Clause 2.4 - Ordering of materials and goods			
	F: T:	Item		
	Previous work and adjoining properties (B3)			
39	Clause 3.1 - Previous work - dimensional accuracy			
	F: V: T:	Item		
40	Clause 3.2 - Previous work - defects			
	F: T:	ltem		
41	Clause 3.3 - Inspection of adjoining properties			
	F: T:	Item		
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	The site (B4)				
42	Clause 4.1 - Handover of site in stages				
	F: V: T:		Item		
43	Clause 4.2 - Enclosure of the works		Item		
	F: V: T:				
44	Clause 4.3 - Geotechnical and other invest	tigations			
	F: V: T:		Item		
45	Clause 4.4 - Encroachments				
	F: V: T:		Item		
46	Clause 4.5 - Existing premises occupied				
	F: V: T:		Item		
47	Clause 4.6 - Services - known				
	F: V: T:		Item		
	Management of contract (B5)				
48	Clause 5.1 - Management of the works				
	F: V: T:		Item		
49	Clause 5.2 - Progress meetings				
	F: V: T:		Item		
50	Clause 5.3 - Technical meetings				
	F: V:		Item		
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	Brought Forward		R	
	Samples, shop drawings and manufacturer's instructions (B6)			
51	Clause 6.1 - Samples of materials			
	F: T:	Item		
52	Clause 6.2 - Workmanship samples			
	F: T:	Item		
53	Clause 6.3 - Shop drawings			
	F: T:	Item		
54	Clause 6.4 - Compliance with manufacturer's instructions			
	F: T:	Item		
	Deposits and fees (B7)			
55	Clause 7.1 - Deposits and fees			
	F: V: T:	Item		
	Temporary services (B8)			
56	Clause 8.1 - Water			
	F: T:	Item		
57	Clause 8.2 - Electricity			
	F: T:	Item		
58	Clause 8.3 - Ablution and welfare facilities			
	F: T:	Item		
59	Clause 8.4 - Communication facilities			
	F: T:	Item		
	Carried Forward		R	<u> </u>
	Section No. 1 Bill No. 1 Preliminaries & General			

	Brought Forward		R	
	Prime cost amounts (B9)			
60	Clause 9.1 - Responsibility for prime cost amounts			
	F: T:	Item		
	Attendance on subcontractors (B10)			
61	Clause 10.1 - General attendance			
	<u>User note</u>			
	General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement			
	F: T:	Item		
62		Kom		
02	It is important to note that general attendance only requires the contractor to "permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill			
	F: T:	Item		
	General (B11)			
63	Clause 11.1 - Protection of the works			
	F: T:	Item		
64	Clause 11.2 - Protection/isolation of existing works and works occupied in sections			
	F: T:	Item		
	Carried Forward Section No. 1 Bill No. 1 Preliminaries & General		R	
	23			l

	Brought Forward		R	
65	Clause 11.3 - Security of the works			
	F: T:	Item		
66	Clause 11.4 - Notice before covering work			
	F: T:	Item		
67	Clause 11.5 - Disturbance			
	Disturbance			
	All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever			
	F:T:T	Item		
68	Clause 11.6 - Environmental disturbance			
	The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works			
69	Clause 11.7 - Works cleaning and clearing			
	F: T:	Item		
70	Clause 11.8 - Vermin			
	F: T:	Item		
71	Clause 11.9 - Overhand work			
	F: T:	Item		
	Carried Forward Section No. 1 Bill No. 1 Preliminaries & General		R	
	-24-	1 I		

	Brought Forward		R	
72	Clause 11.10 - Tenant installations			
	F: T:	Item		
73	Clause 11.11 - Advertising			
	F: T:	Item		
	SECTION C: SPECIFIC PRELIMINARIES			
74	Warranties for materials 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 entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract			
	The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity 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 execution of the works , in which case the responsibility for replacement shall rest entirely with the contractor			
	F: T:	ltem		
75	Overtime			
	Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer			
	F:T:	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries & General			
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	Brought Forward		R	
76	Co-operation of the contractor for cost management			
	It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the contract value does not exceed the budget			
	F:T:	Item		
77	Overloading			
	The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense			
	F:T:	Item		
78	Health and safety			
	Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. 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 specification [2.1]			
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries & General			

	Brought Forward		R		
	The contractor shall:				
	Comply with the health and safety specification for the works				
	Prepare and agree with the health and safety consultant the health and safety plan for the works				
	Cooperate with the health and safety consultant in all respects				
	Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification				
	Conform to the conditions contained in the employer's health and safety specification				
	F:V:				
	T:	Item			
79	Broad based black economic empowerment (BBB-EE)				
	Tenders submitted will be evaluated taking into account their empowerment rating				
	The employer will be monitoring the broad based black economic empowerment (BBB-EE) status of the contractor throughout the execution of the works				
	The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBB-EE rating including proof of the said rating				
	F:T:	Item			
80	Advertising rights				
	The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in meeting his obligations under this agreement				
	F:T:	Item			
	Carried Forward		R		
	Section No. 1 Bill No. 1 Preliminaries & General		X		
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	Brought Forward		R	
81	Confidentiality			
	The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. 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			
	F:T:T	Item		
82	Media releases			
	All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer			
	The contractor together with his subcontractors shall not, without the prior written consent of the employer , cause any statement or advertisement connected with this project to be printed, screened or aired by the media			
	F:T:	Item		
	SUMMARY OF CATEGORIES			
	Category : Fixed R			
	Category : Value R			
	Category : Time R			
	Openie d to Final Communication			
	Carried to Final Summary Section No. 1		R	
	Bill No. 1 Preliminaries & General			

Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 2				
	BILL NO. 1				
	ALTERATIONS				
	PREAMBLES				
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Model Preambles to All Trades 2008', 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.				
	SUPPLEMENTARY PREAMBLES				
	<u>View site</u>				
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	<u>Explosives</u>				
	No explosives whatsoever may be used for demolition purposes unless otherwise stated.				
	<u>General</u>				
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.				
	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.				
	Carried Forward			R	
	Section No. 2 Bill No. 1 Alterations				

	Brought Forward			R	
	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 re-varnishing is given separately.				
	Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.				
	Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. 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				
	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 EXISTING ROOF COVERINGS				
	Temporary roof protection, etc. including removal:				
	Contractors will be held responsible for all damages, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages at his own expense to the approval of the employer				
1	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 (Provisional)	m2	469		
					_
	Carried Forward Section No. 2 Bill No. 1 Alterations			R	

	Brought Forward			R	
2	Security and safety warning tapes and signage to enclose the Works where necessary		Item		
	Protection from damage				
3	All floors, doors, windows, fittings, ceilings, roofs, etc not to be removed and become the property of the Contractor shall be adequately protected from damage during the progress of the works and any damage resulting from the repairs, renovations, alterations or demolitions shall be made good by the Contractor at his own expense		Item		
	REMOVAL OF EXISTING WORK				
	Taking out/off and removing glass				
4	Glass from steel windows with beads, including cleaning out rebates and preparing for new glass (new glass measured elsewhere)	m2	15		
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
5	IBR profiled steel sheeted roof covering and timber purlins with and including timber trusses, rafters, etc	m2	469		
6	Gypsum plasterboard ceilings including cornices, timber brandering, etc.	m2	386		
7	Damaged cornices	m	173		
8	Fascia & barge boards	m	136		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 1 Alterations			R	

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 2				
	ROOF COVERINGS				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	SHEETING				
	Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards				
	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.				
	INSTALLATION				
	Every precaution shall be taken to prevent damage to				
	Carried Forward			R	
	Section No. 2 Bill No. 2 Roof Coverings				

	Brought Forward
pards should neeting from o eformed or da are shall be ta ashing will be	ring all stages of construction. Duck be used when necessary to protect the damage. Sheeting which has become imaged in any way, should be replaced. aken to ensure that no sheeting or cut with abrasive disc on roof surfaces in it steel particles from penetrating coated
HANDLING AN	ND STORAGE
site for roofing/ stored in accor recommendatic and replaced w contractor's exp not generally be	shall ensure that all materials used on cladding, be transported, handled and dance with the manufacturer's ons. Material damaged shall be rejected with undamaged material at the pense. Repair of damaged material will be permitted. Rates are to include for mage and protecting sheets through all truction.
INSPECTION I	PRIOR TO INSTALLATION
	ncing installation, the contractor shall following items have been checked and
a.	The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
b.	Purlins and girths are at the correct spacing and are within the specified tolerances.
C.	The corners of the roof are square and the wall framework is perpendicular or as specified.
d.	No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
e.	All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
f.	Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
g.	The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be
Section No. 2 Bill No. 2 Roof Coverings	Carried Forward

	Brought Forward			R		j
	inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.					
	PROTRUSION THROUGH SHEETED SURFACES					
	Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.					
	GUARANTEE					
	The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.					
	PROFILED METAL SHEETING AND ACCESSORIES					
	"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins					
1	Roof covering with pitch not exceeding 25 degrees	m2	469			
2	Head wall flashings 308mm girth	m	35			
3	Cover flashing 154mm girth	m	35			
	ROOF AND WALL INSULATION					
	Section No. 2 Bill No. 2 Roof Coverings			R		
	-34-	l			II	1

	Brought Forward			R	
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
4	Insulation laid taut over purlins (at approximately 1 100mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	469		
	Carried Forward to Summary of Section No. 2 Section No. 2			R	
	Bill No. 2 Roof Coverings				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 3				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.				
	Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere.				
	Joinery				
	Descriptions of frames shall be deemed to include frames, transomes, rails, etc.				
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
	ROOFS, ETC				
	Carried Forward			R	
	Section No. 2 Bill No. 3				
	Carpentry & Joinery				

		F	R
		r	
m	636		
m	105		
m2	157		
		R	
	m m	m 636 m 105	m 636 m 105 m2 157

	Brought Forward			R	
	Medium density plain fibre-cement flat sheets				
4	6mm Eaves soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 400mm centres across sheets	m2	105		
	High density plain fibre-cement fascias and barge boards				
5	325 x 15mm Fascias and barge boards, including galvanised steel H-profile joiners	m	136		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 3 Carrentry & Joinery			R	
	Carpentry & Joinery				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 4				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Openings in ceilings for light fittings etc. are to include for additional suspension as required				
	<u>Ceilings</u>				
	Unless otherwise decribed ceilings shall be deemed to be horizontal				
	<u>Fixings</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork or concrete.				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	CEILINGS ETC				
	"Aerolite" insulation				
1	75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	282		
	FLUSH PLASTERED SUSPENDED CEILINGS				
	6.4mm Taper-edge gypsum plasterboard with taped and skimmed flush joints				
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres in one direction	m2	282		
				_	
	Section No. 2 Bill No. 4 Ceilings and Partitions			R	

	Brought Forward			R	
3	Extra over ceiling for 600 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	4		
	Cornices				
4	75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders	m	126		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 4 Ceilings and Partitions				

Item No		Unit	Quantity	Rate	Amount	
	BILL NO. 5					
	PLUMBING AND DRAINAGE					
	PREAMBLES					
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item					
	RAINWATER DISPOSAL					
	"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally approved silicon mastic sealer. Gutters are to be hung with nailed fixed internal aluminium hangers at 600mm centres to fibre cement fascia boards (Fibre cement fascia boards elsewhere measured)					
1	125 x 85 x 0.6mm Ogee profile gutter	m	105			
2	Extra over gutter for stop ends	No	4			
	0.7mm Baked enamel aluminium downpipe including holderbats					
3	100 x 75mm rainwater pipe	m	14			
4	Extra over rainwater pipe for bend	No	8			
5	Extra over gutter for 100 x 75mm outlet	No	4			
6	Extra over rainwater pipe for shoe	No	4			
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 5 Plumbing and Drainage			R		
	-41-					

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 6				
	<u>GLAZING</u>				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	GLAZING TO STEEL WITH PUTTY				
	6,38mm Normal strength clear laminated safety glass				
1	Panes not exceeding 0,1 m2	m2	15		
	Carried Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 6 Glazing				

Item No		Unit	Quantity	Rate	Amount	
	BILL NO. 7					
	PAINTWORK					
	PREAMBLES					
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item					
	SUPPLEMENTARY PREAMBLES					
	SANS Specifications					
	Alkali resistant primer - SANS 1416					
	Wash primer (metal etch) - SANS 1001 - 1					
	Primers for internal wood work - SANS 678 Type 111					
	Gloss enamel paint - SANS 630					
	Undercoat for paints (Except emulsion paint) - SANS 681 Type 1					
	Aluminium paint - SANS 682 Grade 11					
	Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)					
	PAINTWORK, ETC. TO PREVIOUSLY PAINTED SURFACES					
	Carried Forward			R		
	Section No. 2 Bill No. 7 Paintwork					

DED A DATORY WORK TO EVICTING WORK			!	
PREPARATORY WORK TO EXISTING WORK				
Previously painted plastered surfaces				
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				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
Previously painted wood surfaces				
Surfaces shall be thoroughly cleaned down. Blistered or beeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
PAINT SPECIFICATIONS				
All painting shall be done in accordance with Dulux or other approved specifications unless otherwise described				
ON INTERNAL FLOATED PLASTER SURFACES				
Prepare and sand down existing surfaces and apply 'Plascon" or other equally approved Primer (PP700) and two coats "Velvaglo" water based paint for nterior use				
On Walls	m2	450		
PAINTWORK, ETC. TO NEW SURFACES				
ON PLASTERBOARD SURFACES				
'Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use				
Ceilings and cornices, including priming metal	m2	282		
Carried Forward Section No. 2 Bill No. 7 Paintwork			R	

	Brought Forward			R	
3	Eaves closure	m2	105		
	ON FIBRE-CEMENT BOARD SURFACES				
	"Plascon" or other approved alkali resistant primer and two coats "Nu-Roof" emulsion paint for exterior use				
4	Fascias and barge boards	m2	63		
					_
	Carried Forward to Summary of Section No. 2 Section No. 2			R	_
	Bill No. 7 Paintwork				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 8				
	PROVISIONAL SUMS				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned				
	All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned				
	ELECTRICAL				
1	Provide an amount of R130,000.00 (One Hundred and Thirty Thousand Rand) for electrical works		Item		130,000.00
2	Profit on above item			%	
3	Attendance on ditto			%	
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 8 Provisional Sums			R	

	SECTION SUMMARY - Block A - 4 Classroom Block			
Bill No		Page No		Amount
1	Alterations	31		
2	Roof Coverings	35		
3	Carpentry & Joinery	38		
4	Ceilings and Partitions	40		
5	Plumbing and Drainage	41		
6	Glazing	42		
7	Paintwork	45		
8	Provisional Sums	46		
	Carried to Final Summary Section No. 2		R	

Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 3				
	BILL NO. 1				
	ALTERATIONS				
	PREAMBLES				
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Model Preambles to All Trades 2008', 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.				
	SUPPLEMENTARY PREAMBLES				
	<u>View site</u>				
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	<u>Explosives</u>				
	No explosives whatsoever may be used for demolition purposes unless otherwise stated.				
	<u>General</u>				
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.				
	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.				
	Carried Forward			R	
	Section No. 3 Bill No. 1 Alterations				

Brought Forward			R	
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 re-varnishing is given separately.				
Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.				
Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. 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				
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 EXISTING ROOF COVERINGS				
Temporary roof protection, etc. including removal:				
Contractors will be held responsible for all damages, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages 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 (Provisional)	m2	469		
Section No. 3 Bill No. 1 Alterations			R	
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	Brought Forward			R	
2	Security and safety warning tapes and signage to enclose the Works where necessary		Item		
	Protection from damage				
3	All floors, doors, windows, fittings, ceilings, roofs, etc not to be removed and become the property of the Contractor shall be adequately protected from damage during the progress of the works and any damage resulting from the repairs, renovations, alterations or demolitions shall be made good by the Contractor at his own expense		Item		
	REMOVAL OF EXISTING WORK				
	Taking out/off and removing glass				
4	Glass from steel windows with beads, including cleaning out rebates and preparing for new glass (new glass measured elsewhere)	m2	15		
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
5	IBR profiled steel sheeted roof covering and timber purlins with and including timber trusses, rafters, etc	m2	469		
6	Gypsum plasterboard ceilings including cornices, timber brandering, etc.	m2	386		
7	Damaged cornices	m	173		
8	Fascia & barge boards	m	136		
	Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 1 Alterations			R	

Item No		Unit	Quantity	Rate	Amount	
	BILL NO. 2					
	ROOF COVERINGS					
	PREAMBLES					
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item					
	SUPPLEMENTARY PREAMBLES					
	<u>SHEETING</u>					
	Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards					
	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.					
	INSTALLATION					
	Every precaution shall be taken to prevent damage to					
	Carried Forward			R		
	Section No. 3 Bill No. 2 Roof Coverings					

	Brought Forward
ards should eeting from of formed or da are shall be to shing will be	ring all stages of construction. Duck be used when necessary to protect the damage. Sheeting which has become amaged in any way, should be replaced. aken to ensure that no sheeting or cut with abrasive disc on roof surfaces in at steel particles from penetrating coated
HANDLING AN	ND STORAGE
site for roofing/ stored in accor recommendation and replaced w contractor's exp not generally b	shall ensure that all materials used on cladding, be transported, handled and dance with the manufacturer's ons. Material damaged shall be rejected with undamaged material at the pense. Repair of damaged material will be permitted. Rates are to include for mage and protecting sheets through all truction.
INSPECTION I	PRIOR TO INSTALLATION
	ncing installation, the contractor shall following items have been checked and
a.	The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
b.	Purlins and girths are at the correct spacing and are within the specified tolerances.
C.	The corners of the roof are square and the wall framework is perpendicular or as specified.
d.	No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
e.	All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
f.	Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
g.	The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be
Section No. 3 Bill No. 2 Roof Coverings	Carried Forward

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	inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.					
	PROTRUSION THROUGH SHEETED SURFACES					
	Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.					
	GUARANTEE					
	The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.					
	PROFILED METAL SHEETING AND ACCESSORIES					
	"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins					
1	Roof covering with pitch not exceeding 25 degrees	m2	469			
2	Head wall flashings 308mm girth	m	35			
3	Cover flashing 154mm girth	m	35			
	ROOF AND WALL INSULATION					
	Carried Forward Section No. 3 Bill No. 2 Roof Coverings			R		

	Brought Forward			R	
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
4	Insulation laid taut over purlins (at approximately 1 100mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	469		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Bill No. 2 Roof Coverings				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 3				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.				
	Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere.				
	Joinery				
	Descriptions of frames shall be deemed to include frames, transomes, rails, etc.				
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
	ROOFS, ETC				
	Carried Forward			R	
	Section No. 3 Bill No. 3				
	Carpentry & Joinery				

Brought Forward			R	
Plate nailed timber roof truss construction				
The following is applicable in respect of roof trusses:				
Trusses are at maximum 1,10m centres				
Roof covering is galvanised "IBR" roof sheeting with "Globalcoat" finish on one side on 50 x 75mm purlins at 1,1m maximum centres.				
Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering.				
All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
All joints to be close fitted butt joints.				
Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
Tenderers must study the roof plan and sections as attached to the back of these bills of quantities (refer drawing No.'s CLASS-4 - 001 to 002) and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
Sawn softwood				
50 x 75mm Purlins	m	424		
38 x 114mm Wall plates	m	105		
<u>Sundries</u>				
Two coats creosote on sawn timbers	m2	157		
EAVES, VERGES, ETC				
Carried Forward			R	
Section No. 3 Bill No. 3 Carpentry & Joinery				

	Brought Forward			R	
	Medium density plain fibre-cement flat sheets				
4	6mm Eaves soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 400mm centres across sheets	m2	105		
	High density plain fibre-cement fascias and barge boards				
5	325 x 15mm Fascias and barge boards, including galvanised steel H-profile joiners	m	136		
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	Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 3 Carpentry & Joinery			R	_
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Item No		Unit	Quantity	Rate	Amount
	BILL NO. 4				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Openings in ceilings for light fittings etc. are to include for additional suspension as required				
	<u>Ceilings</u>				
	Unless otherwise decribed ceilings shall be deemed to be horizontal				
	<u>Fixings</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork or concrete.				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	CEILINGS ETC				
	"Aerolite" insulation				
1	75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	282		
	FLUSH PLASTERED SUSPENDED CEILINGS				
	6.4mm Taper-edge gypsum plasterboard with taped and skimmed flush joints				
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres in one direction	m2	282		
	Carried Forward Section No. 3 Bill No. 4 Ceilings and Partitions			R	

	Brought Forward			R		
3	Extra over ceiling for 600 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	4			
	Cornices					
4	75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders	m	126			
	Carried Forward to Summary of Section No. 3			R		
	Section No. 3 Bill No. 4 Ceilings and Partitions					_

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 5				
	PLUMBING AND DRAINAGE				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	RAINWATER DISPOSAL				
	"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally approved silicon mastic sealer. Gutters are to be hung with nailed fixed internal aluminium hangers at 600mm centres to fibre cement fascia boards (Fibre cement fascia boards elsewhere measured)				
1	125 x 85 x 0.6mm Ogee profile gutter	m	105		
2	Extra over gutter for stop ends	No	4		
	0.7mm Baked enamel aluminium downpipe including holderbats				
3	100 x 75mm rainwater pipe	m	14		
4	Extra over rainwater pipe for bend	No	8		
5	Extra over gutter for 100 x 75mm outlet	No	4		
6	Extra over rainwater pipe for shoe	No	4		
	Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 5 Plumbing and Drainage			R	

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 6				
	<u>GLAZING</u>				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	GLAZING TO STEEL WITH PUTTY				
	6,38mm Normal strength clear laminated safety glass				
1	Panes not exceeding 0,1 m2	m2	15		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3				
	Bill No. 6 Glazing				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 7				
	<u>PAINTWORK</u>				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	SANS Specifications				
	Alkali resistant primer - SANS 1416				
	Wash primer (metal etch) - SANS 1001 - 1				
	Primers for internal wood work - SANS 678 Type 111				
	Gloss enamel paint - SANS 630				
	Undercoat for paints (Except emulsion paint) - SANS 681 Type 1				
	Aluminium paint - SANS 682 Grade 11				
	Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)				
	PAINTWORK, ETC. TO NEW SURFACES				
	ON PLASTERBOARD SURFACES				
	"Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use				
1	Ceilings and cornices, including priming metal	m2	282		
2	Eaves closure	m2	105		
	ON FIBRE-CEMENT BOARD SURFACES				
	Carried Forward			R	
	Section No. 3 Bill No. 7 Paintwork				

	Brought Forward			R	
	"Plascon" or other approved alkali resistant primer and two coats "Nu-Roof" emulsion paint for exterior use				
3	Fascias and barge boards Fascias and barge boards	m2	63		
	Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 7 Paintwork			R	

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 8				
	PROVISIONAL SUMS				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned				
	All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned				
	ELECTRICAL				
1	Provide an amount of R130,000.00 (One Hundred and Thirty Thousand Rand) for electrical works		Item		130,000.00
2	Profit on above item			%	
3	Attendance on ditto			%	
	Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 8 Provisional Sums			R	

	SECTION SUMMARY - Block B - 4 Classroom Block			
Bill No		Page No		Amount
1	Alterations	50		
2	Roof Coverings	54		
3	Carpentry & Joinery	57		
4	Ceilings and Partitions	59		
5	Plumbing and Drainage	60		
6	Glazing	61		
7	Paintwork	63		
8	Provisional Sums	64		
	Carried to Final Summary		R	
	Section No. 3			
		[

Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 4				
	BILL NO. 1				
	ALTERATIONS				
	PREAMBLES				
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Model Preambles to All Trades 2008', 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.				
	SUPPLEMENTARY PREAMBLES				
	<u>View site</u>				
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	<u>Explosives</u>				
	No explosives whatsoever may be used for demolition purposes unless otherwise stated.				
	General				
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.				
	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.				
	Carried Forward Section No. 4 Bill No. 1 Alterations			R	
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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 re-varnishing is given separately.					
Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.					
Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. 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					
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 EXISTING ROOF COVERINGS					
Temporary roof protection, etc. including removal:					
Contractors will be held responsible for all damages, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages 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 (Provisional)	m2	469			
Carried Forward Section No. 4 Bill No. 1 Alterations			R		
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	Brought Forward			R	
2	Security and safety warning tapes and signage to enclose the Works where necessary		Item		
	Protection from damage				
3	All floors, doors, windows, fittings, ceilings, roofs, etc not to be removed and become the property of the Contractor shall be adequately protected from damage during the progress of the works and any damage resulting from the repairs, renovations, alterations or demolitions shall be made good by the Contractor at his own expense		Item		
	REMOVAL OF EXISTING WORK				
	Taking out/off and removing glass				
4	Glass from steel windows with beads, including cleaning out rebates and preparing for new glass (new glass measured elsewhere)	m2	15		
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
5	IBR profiled steel sheeted roof covering and timber purlins with and including timber trusses, rafters, etc	m2	469		
6	Gypsum plasterboard ceilings including cornices, timber brandering, etc.	m2	386		
7	Damaged cornices	m	173		
8	Fascia & barge boards	m	136		
	PREPARATORY WORK TO EXISTING SURFACES				
	Mechanically scrabbling of existing concrete surfaces				
9	Scabble existing concrete surface bed and prepare to receive new screed (new screed elsewhere measured)	m2	141		
	REPAIR WORK TO EXISTING				
					_
	Section No. 4 Bill No. 1 Alterations			R	

	Brought Forward			R	
	Face brick walls stitching repair				
	Surface Preparation:				
	1) Rake out crack. Remove all debris/loose material				
	2) Stitch crack in blockwork/brickwork with r8 reinforcing rods.				
	3) R8 reinforcing rods are to be 300mm long with 50mm bends at both ends - total length = 400mm.				
	4) R8 reinforcing rods are to be epoxy grouted with 'Prostruct 617 general purpose epoxy adhesive' or similar approved at 250mm centres, and grouted into (10mm deep) slots cut into blockwork/brickwork and with (60mm deep) 10mm diameter. drill holes at each end to accommodate the bends of the reinforcing rods.				
	5) All slots and drill holes to be completely filled with epoxy adhesive.				
	6) All slots to be cut perpendicular to the crack in the blockwork/brickwork.				
	7) Epoxy adhesive application to be as per manufacturers' specifications.				
	8) Build face bricks to match existing				
10	230mm Face brick walls	m2	10		
					_
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 Bill No. 1 Alterations				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 2				
	ROOF COVERINGS				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	SHEETING				
	Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards				
	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.				
	INSTALLATION				
	Every precaution shall be taken to prevent damage to				
	Carried Forward			R	
	Section No. 4 Bill No. 2 Roof Coverings				

	Brought Forward	R	
boards should sheeting from deformed or of Care shall be flashing will b	uring all stages of construction. Duck d be used when necessary to protect the d damage. Sheeting which has become damaged in any way, should be replaced. taken to ensure that no sheeting or e cut with abrasive disc on roof surfaces in ent steel particles from penetrating coated		
HANDLING A	AND STORAGE		
site for roofin stored in accor recommenda and replaced contractor's e not generally	or shall ensure that all materials used on g/cladding, be transported, handled and ordance with the manufacturer's tions. Material damaged shall be rejected with undamaged material at the expense. Repair of damaged material will be permitted. Rates are to include for amage and protecting sheets through all struction.		
INSPECTION	I PRIOR TO INSTALLATION		
	encing installation, the contractor shall following items have been checked and		
a.	The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.		
b.	Purlins and girths are at the correct spacing and are within the specified tolerances.		
C.	The corners of the roof are square and the wall framework is perpendicular or as specified.		
d.	No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.		
e.	All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.		
f.	Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.		
g.	The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be		
Section No. 4	Carried Forward	R	

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	inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.			K		
	PROTRUSION THROUGH SHEETED SURFACES					
	Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.					
	GUARANTEE					
	The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.					
	PROFILED METAL SHEETING AND ACCESSORIES					
	"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins					
1	Roof covering with pitch not exceeding 25 degrees	m2	469			
2	Head wall flashings 308mm girth	m	35			
3	Cover flashing 154mm girth	m	35			
	ROOF AND WALL INSULATION					
	Carried Forward			R		
	Section No. 4 Bill No. 2 Roof Coverings					

	Brought Forward			R	
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
4	Insulation laid taut over purlins (at approximately 1 100mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	469		
	Carried Forward to Summary of Section No. 4			R	_
	Section No. 4 Bill No. 2 Roof Coverings				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 3				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.				
	Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere.				
	Joinery				
	Descriptions of frames shall be deemed to include frames, transomes, rails, etc.				
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
	ROOFS, ETC				
	Carried Forward			R	
	Section No. 4 Bill No. 3 Carpentry & Joinery				

Brought Forward			F	₹
Plate nailed timber roof truss construction				
The following is applicable in respect of roof trusses:				
Trusses are at maximum 1,10m centres				
Roof covering is galvanised "IBR" roof sheeting with "Globalcoat" finish on one side on 50 x 75mm purlins at 1,1m maximum centres.				
Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering.				
All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
All joints to be close fitted butt joints.				
Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
Tenderers must study the roof plan and sections as attached to the back of these bills of quantities (refer drawing No.'s CLASS-4 - 001 to 002) and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
Sawn softwood				
50 x 75mm Purlins	m	636		
38 x 114mm Wall plates	m	105		
<u>Sundries</u>				
Two coats creosote on sawn timbers	m2	157		
EAVES, VERGES, ETC				
Carried Forward			F	
Section No. 4 Bill No. 3 Carpentry & Joinery				

	Brought Forward			R	
	Medium density plain fibre-cement flat sheets				
4	6mm Eaves soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 400mm centres across sheets	m2	105		
	High density plain fibre-cement fascias and barge boards				
5	325 x 15mm Fascias and barge boards, including galvanised steel H-profile joiners	m	136		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 Bill No. 3 Carpentry & Joinery				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 4				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Openings in ceilings for light fittings etc. are to include for additional suspension as required				
	<u>Ceilings</u>				
	Unless otherwise decribed ceilings shall be deemed to be horizontal				
	<u>Fixings</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork or concrete.				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	CEILINGS ETC				
	"Aerolite" insulation				
1	75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	282		
	FLUSH PLASTERED SUSPENDED CEILINGS				
	6.4mm Taper-edge gypsum plasterboard with taped and skimmed flush joints				
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres in one direction	m2	282		
	Carried Forward Section No. 4 Bill No. 4			R	
	Ceilings and Partitions				
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	Brought Forward	ĺ		R	
3	Extra over ceiling for 600 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	4		
	Cornices				
4	75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders	m	126		
	Carried Forward to Summary of Section No. 4			R	
	Carried Forward to Summary of Section No. 4 Section No. 4 Bill No. 4 Ceilings and Partitions			K	<u> </u>

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 5				
	PLASTERING				
	PREAMBLES				
	The descriptions given in the various items below are not necessary full and complete and reference must be made to the "Standard Preambles to All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirement of each schedule item.				
	SUPPLEMENTARY PREAMBLES				
	<u>Method</u>				
	The method to be used shall be either the monolithic method or the bonded method				
	<u>Laying</u>				
	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 latence shall then be removed and the surface steel trowelled or power floated				
	GRANOLITHIC				
	Untinted granolithic, on concrete				
1	Average 22mm thick on floors in patches	m2	141		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 Bill No. 5 Plastering				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 6				
	PLUMBING AND DRAINAGE				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	RAINWATER DISPOSAL				
	"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally approved silicon mastic sealer. Gutters are to be hung with nailed fixed internal aluminium hangers at 600mm centres to fibre cement fascia boards (Fibre cement fascia boards elsewhere measured)				
1	125 x 85 x 0.6mm Ogee profile gutter	m	105		
2	Extra over gutter for stop ends	No	4		
	0.7mm Baked enamel aluminium downpipe including holderbats				
3	100 x 75mm rainwater pipe	m	14		
4	Extra over rainwater pipe for bend	No	8		
5	Extra over gutter for 100 x 75mm outlet	No	4		
6	Extra over rainwater pipe for shoe	No	4		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 Bill No. 6 Plumbing and Drainage			,	

Item No		Unit	Quantity	Rate	Amount	
	BILL NO. 7					
	<u>GLAZING</u>					
	PREAMBLES					
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item					
	GLAZING TO STEEL WITH PUTTY					
	6,38mm Normal strength clear laminated safety glass					
1	Panes not exceeding 0,1 m2	m2	15			
						_
	Carried Forward to Summary of Section No. 4			R		=
	Section No. 4 Bill No. 7 Glazing					
	Glazing					

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 8				
	PAINTWORK				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	SANS Specifications				
	Alkali resistant primer - SANS 1416				
	Wash primer (metal etch) - SANS 1001 - 1				
	Primers for internal wood work - SANS 678 Type 111				
	Gloss enamel paint - SANS 630				
	Undercoat for paints (Except emulsion paint) - SANS 681 Type 1				
	Aluminium paint - SANS 682 Grade 11				
	Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)				
	PAINTWORK, ETC. TO PREVIOUSLY PAINTED SURFACES				
	Carried Forward			R	
	Section No. 4 Bill No. 8 Paintwork				

Brought Forward			R	
PREPARATORY WORK TO EXISTING WORK				
Previously painted plastered surfaces				
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				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
Previously painted wood surfaces				
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				
PAINT SPECIFICATIONS				
All painting shall be done in accordance with Dulux or other approved specifications unless otherwise described				
ON INTERNAL FLOATED PLASTER SURFACES				
Prepare and sand down existing surfaces and apply "Plascon" or other equally approved Primer (PP700) and two coats "Velvaglo" water based paint for interior use				
On Walls	m2	450		
PAINTWORK, ETC. TO NEW SURFACES				
ON PLASTERBOARD SURFACES				
"Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use				
Ceilings and cornices, including priming metal	m2	282		
Carried Forward Section No. 4			R	
Bill No. 8 Paintwork				

	Brought Forward			R	
3	Eaves closure	m2	105		
	ON FIBRE-CEMENT BOARD SURFACES				
	"Plascon" or other approved alkali resistant primer and two coats "Nu-Roof" emulsion paint for exterior use				
4	Fascias and barge boards	m2	63		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 Bill No. 8 Paintwork				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 9				
	PROVISIONAL SUMS				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned				
	All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned				
	ELECTRICAL				
1	Provide an amount of R130,000.00 (One Hundred and Thirty Thousand Rand) for electrical works		Item		130,000.00
2	Profit on above item			%	
3	Attendance on ditto			%	
	Carried Forward to Summary of Section No. 4 Section No. 4 Bill No. 9 Provisional Sums			R	

	SECTION SUMMARY - Block C - 4 Classroom		
Bill No		Page No	Amount
1	Alterations	69	
2	Roof Coverings	73	
3	Carpentry & Joinery	76	
4	Ceilings and Partitions	78	
5	Plastering	79	
6	Plumbing and Drainage	80	
7	Glazing	81	
8	Paintwork	84	
9	Provisional Sums	85	
	Carried to Final Summ Section No. 4	nary	R
	Section No. 4		
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Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 5				
	BILL NO. 1				
	ALTERATIONS				
	PREAMBLES				
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Model Preambles to All Trades 2008', 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.				
	SUPPLEMENTARY PREAMBLES				
	<u>View site</u>				
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	<u>Explosives</u>				
	No explosives whatsoever may be used for demolition purposes unless otherwise stated.				
	General				
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.				
	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.				
	Carried Forward			R	
	Section No. 5 Bill No. 1 Alterations				

	Brought Forward			R	
	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 re-varnishing is given separately.				
	Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.				
	Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. 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				
	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 EXISTING ROOF COVERINGS				
	Temporary roof protection, etc. including removal:				
	Contractors will be held responsible for all damages, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages at his own expense to the approval of the employer				
1	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 (Provisional)	m2	469		
	Carried Forward Section No. 5 Bill No. 1 Alterations			R	
	88				

	Brought Forward			R		
2	Security and safety warning tapes and signage to enclose the Works where necessary		Item			
	Protection from damage					
3	All floors, doors, windows, fittings, ceilings, roofs, etc not to be removed and become the property of the Contractor shall be adequately protected from damage during the progress of the works and any damage resulting from the repairs, renovations, alterations or demolitions shall be made good by the Contractor at his own expense		Item			
	REMOVAL OF EXISTING WORK					
	Taking out/off and removing glass					
4	Glass from steel windows with beads, including cleaning out rebates and preparing for new glass (new glass measured elsewhere)	m2	15			
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc					
5	IBR profiled steel sheeted roof covering and timber purlins with and including timber trusses, rafters, etc	m2	469			
6	Gypsum plasterboard ceilings including cornices, timber brandering, etc.	m2	386			
7	Damaged cornices	m	173			
8	Fascia & barge boards	m	136			
	Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)					
9	Timber single door and steel frame not exceeding 2,5m ²	No	4			
	Carried Forward to Summary of Section No. 5			R		
	Section No. 5 Bill No. 1					==
	Alterations					
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Item No		Unit	Quantity	Rate	Amount	
	BILL NO. 2					
	ROOF COVERINGS					
	PREAMBLES					
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item					
	SUPPLEMENTARY PREAMBLES					
	<u>SHEETING</u>					
	Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards					
	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.					
	INSTALLATION					
	Every precaution shall be taken to prevent damage to					
	Carried Forward			R		
	Section No. 5 Bill No. 2 Roof Coverings					

	Brought Forward	R	
boards should I sheeting from a deformed or da Care shall be to flashing will be	ing all stages of construction. Duck be used when necessary to protect the lamage. Sheeting which has become maged in any way, should be replaced. aken to ensure that no sheeting or cut with abrasive disc on roof surfaces in t steel particles from penetrating coated		
HANDLING AN	ID STORAGE		
site for roofing/stored in according recommendation and replaced where the contractor's exprost generally be	shall ensure that all materials used on cladding, be transported, handled and dance with the manufacturer's ons. Material damaged shall be rejected with undamaged material at the pense. Repair of damaged material will be permitted. Rates are to include for large and protecting sheets through all ruction.		
INSPECTION F	PRIOR TO INSTALLATION		
	ncing installation, the contractor shall ollowing items have been checked and		
a.	The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.		
b.	Purlins and girths are at the correct spacing and are within the specified tolerances.		
C.	The corners of the roof are square and the wall framework is perpendicular or as specified.		
d.	No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.		
e.	All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.		
f.	Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.		
g.	The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be		
	Carried Forward	R	
Section No. 5 Bill No. 2 Roof Coverings			

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	inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.			R		
	PROTRUSION THROUGH SHEETED SURFACES					
	Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.					
	<u>GUARANTEE</u>					
	The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.					
	PROFILED METAL SHEETING AND ACCESSORIES					
	"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins					
1	Roof covering with pitch not exceeding 25 degrees	m2	469			
2	Head wall flashings 308mm girth	m	35			
3	Cover flashing 154mm girth	m	35			
	ROOF AND WALL INSULATION					
	Section No. 5 Bill No. 2 Roof Coverings			R		

	Brought Forward			R	
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation				
4	Insulation laid taut over purlins (at approximately 1 100mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	469		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 Bill No. 2 Roof Coverings				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 3				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.				
	Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere.				
	Joinery				
	Descriptions of frames shall be deemed to include frames, transomes, rails, etc.				
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
	ROOFS, ETC				
	Carried Forward			В	
	Section No. 5 Bill No. 3 Carpentry & Joinery			R	

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m	636		
m	105		
m2	157		
		R	
	m	m 105	m 105

Medium density plain fibre-cement flat sheets 6mm Eaves soffit covering including 38 x 38mm sawn softwood branders along edges, along centre and at 400mm centres across sheets High density plain fibre-cement fascias and barge boards 325 x 15mm Fascias and barge boards, including galvanised steel H-profile joiners m 136	
softwood branders along edges, along centre and at 400mm centres across sheets Migh density plain fibre-cement fascias and barge boards 325 x 15mm Fascias and barge boards, including	
 boards 325 x 15mm Fascias and barge boards, including 	
Carried Forward to Summary of Section No. 5 Section No. 5	
Bill No. 3 Carpentry & Joinery	

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 4				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Openings in ceilings for light fittings etc. are to include for additional suspension as required				
	<u>Ceilings</u>				
	Unless otherwise decribed ceilings shall be deemed to be horizontal				
	<u>Fixings</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork or concrete.				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	CEILINGS ETC				
	"Aerolite" insulation				
1	75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	282		
	FLUSH PLASTERED SUSPENDED CEILINGS				
	6.4mm Taper-edge gypsum plasterboard with taped and skimmed flush joints				
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres in one direction	m2	282		
	Carried Forward Section No. 5 Bill No. 4 Ceilings and Partitions			R	
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	Brought Forward			R		
3	Extra over ceiling for 600 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	4			
	Cornices					
4	75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders	m	126			
	Carried Forward to Summary of Section No. 5 Section No. 5			R		
	Bill No. 4 Ceilings and Partitions					

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 5				
	<u>IRONMONGERY</u>				
	SUPPLEMENTARY PREAMBLES				
	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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded NP Nickle plated				
	LOCKS				
	"Mazac Tarpon"				
1	"952/4L" four lever lockset and handles with chrome plated finish	No	4		
	PUSH PLATES AND KICKING PLATES				
	<u>"Dorma"</u>				
2	"dkp-ss-161" Stainless steel kickplate plate size 813 x 300mm high fixed to timber	No	8		
	LETTERS, NAMEPLATES, ETC				
3	60 x 3mm Thick perspex plate with two 40mm high engraved and painted numerals	No	4		
	<u>SUNDRIES</u>				
	<u>"Union"</u>				
4	"AL8730AS" door stop plugged	No	4		
	Carried Forward to Summary of Section No. 5 Section No. 5 Bill No. 5 Ironmongery			R	

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 6				
	<u>METALWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Double rebated frames suitable for one brick walls				
1	Frame for door 813 x 2 032mm high	No	4		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 Bill No. 6 Metalwork				

Item No		Unit	Quantity	Rate	Amount	
	BILL NO. 7					
	PLUMBING AND DRAINAGE					
	PREAMBLES					
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item					
	RAINWATER DISPOSAL					
	"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally approved silicon mastic sealer. Gutters are to be hung with nailed fixed internal aluminium hangers at 600mm centres to fibre cement fascia boards (Fibre cement fascia boards elsewhere measured)					
1	125 x 85 x 0.6mm Ogee profile gutter	m	105			
2	Extra over gutter for stop ends	No	4			
	0.7mm Baked enamel aluminium downpipe including holderbats					
3	100 x 75mm rainwater pipe	m	14			
4	Extra over rainwater pipe for bend	No	8			
5	Extra over gutter for 100 x 75mm outlet	No	4			
6	Extra over rainwater pipe for shoe	No	4			
						-
	Carried Forward to Summary of Section No. 5 Section No. 5 Bill No. 7 Plumbing and Drainage			R		=

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 8				
	<u>GLAZING</u>				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	GLAZING TO STEEL WITH PUTTY				
	6,38mm Normal strength clear laminated safety glass				
1	Panes not exceeding 0,1 m2	m2	15		
	Consider Comment to Comment of Continue No. 5				
	Carried Forward to Summary of Section No. 5 Section No. 5			R	
	Bill No. 8 Glazing				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 9				
	PAINTWORK				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	SANS Specifications				
	Alkali resistant primer - SANS 1416				
	Wash primer (metal etch) - SANS 1001 - 1				
	Primers for internal wood work - SANS 678 Type 111				
	Gloss enamel paint - SANS 630				
	Undercoat for paints (Except emulsion paint) - SANS 681 Type 1				
	Aluminium paint - SANS 682 Grade 11				
	Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)				
	PAINTWORK, ETC. TO PREVIOUSLY PAINTED SURFACES				
	Carried Forward			R	
	Section No. 5 Bill No. 9 Paintwork				

			ļ		
PREPARATORY W	ORK TO EXISTING WORK				
Previously painted p	lastered surfaces				
to dry completely befor peeling paint shall I	oughly washed down and allowed re any paint is applied. Blistered be completely removed and cracks with a suitable filler and finished				
Previously painted n	netal surfaces				
	oughly rubbed and cleaned down. aint shall be completely removed				
Previously painted w	rood surfaces				
peeling paint shall be	oughly cleaned down. Blistered or completely removed and cracks primed, filled with suitable filler				
PAINT SPECIFICATION	DNS				
	one in accordance with Dulux or ications unless otherwise				
ON INTERNAL FLO	DATED PLASTER SURFACES				
"Plascon" or other e	own existing surfaces and apply qually approved Primer (PP700) aglo" water based paint for				
On Walls		m2	450		
PAINTWORK, ET	C. TO NEW SURFACES				
ON PLASTERBOA	RD SURFACES				
plaster primer (PP70	qually approved gypsum and 0) and two coats professional /TSA) for interior use				
Ceilings and cornices	including priming metal	m2	282		
	Carried Forward			R	
Section No. 5 Bill No. 9 Paintwork	Carried Forward			K	

	Brought Forward			R	
3	Eaves closure	m2	105		
	ON FIBRE-CEMENT BOARD SURFACES				
	"Plascon" or other approved alkali resistant primer and two coats "Nu-Roof" emulsion paint for exterior use				
4	Fascias and barge boards	m2	63		
	ON METAL				
	Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel				
5	On door frames	m2	10		
	ON WOOD				
	Three coats polyurethane semi-gloss varnish				
6	On doors	m2	15		
	Carried Forward to Summary of Section No. 5 Section No. 5			R	<u> </u>
	Bill No. 9 Paintwork]

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 10				
	PROVISIONAL SUMS				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned				
	All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned				
	ELECTRICAL				
1	Provide an amount of R130,000.00 (One Hundred and Thirty Thousand Rand) for electrical works		Item		130,000.00
2	Profit on above item			%	
3	Attendance on ditto			%	
	Carried Forward to Summary of Section No. 5 Section No. 5 Bill No. 10 Provisional Sums			R	

	SECTION SUMMARY - Block D - 4 Classroom			
Bill No		Page No		Amount
1	Alterations	89		
2	Roof Coverings	93		
3	Carpentry & Joinery	96		
4	Ceilings and Partitions	98		
5	Ironmongery	99		
6	Metalwork	100		
7	Plumbing and Drainage	101		
8	Glazing	102		
9	Paintwork	105		
10	Provisional Sums	106		
	Carried to Final Summary		R	
	Section No. 5			
	I	1		ı l

Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 6				
	BILL NO. 1				
	ALTERATIONS				
	PREAMBLES				
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Model Preambles to All Trades 2008', 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.				
	SUPPLEMENTARY PREAMBLES				
	<u>View site</u>				
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	<u>Explosives</u>				
	No explosives whatsoever may be used for demolition purposes unless otherwise stated.				
	<u>General</u>				
	The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.				
	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.				
	Carried Forward Section No. 6			R	
	Bill No. 1 Alterations				

	Brought Forward			R	
	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 re-varnishing is given separately.				
	Prices for taking out of doors, windows, etc. shall include for removal of all beads, architraves, ironmongery, etc.				
	Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc. 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				
	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 EXISTING ROOF COVERINGS				
	Temporary roof protection, etc. including removal:				
	Contractors will be held responsible for all damages, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages at his own expense to the approval of the employer				
1	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 (Provisional)	m2	16		
	Carried Forward Section No. 6 Bill No. 1 Alterations			R	

	Brought Forward			R	
2	Security and safety warning tapes and signage to enclose the Works where necessary		ltem		
	Protection from damage				
3	All floors, doors, windows, fittings, ceilings, roofs, etc not to be removed and become the property of the Contractor shall be adequately protected from damage during the progress of the works and any damage resulting from the repairs, renovations, alterations or demolitions shall be made good by the Contractor at his own expense		Item		
	REMOVAL OF EXISTING WORK				
	Taking out/off and removing glass				
4	Glass from steel windows with beads, including cleaning out rebates and preparing for new glass (new glass measured elsewhere)	m2	1		
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc				
5	IBR profiled steel sheeted roof covering and timber purlins with and including timber trusses, rafters, etc	m2	16		
6	Gypsum plasterboard ceilings including cornices, timber brandering, etc.	m2	16		
7	Damaged cornices	m	16		
	Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)				
8	Timber single door and steel frame not exceeding 2,5m ²	No	1		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6 Bill No. 1 Alterations				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 2				
	ROOF COVERINGS				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	SHEETING				
	Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards				
	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.				
	INSTALLATION				
	Every precaution shall be taken to prevent damage to				
	Carried Forward			R	
	Section No. 6 Bill No. 2 Roof Coverings				

	Brought Forward
ds should ting from med or d shall be ing will b	uring all stages of construction. Duck d be used when necessary to protect the n damage. Sheeting which has become damaged in any way, should be replaced. I taken to ensure that no sheeting or note cut with abrasive disc on roof surfaces in ent steel particles from penetrating coated
NDLING A	AND STORAGE
e for roofin red in accommenda d replaced ntractor's e	or shall ensure that all materials used on g/cladding, be transported, handled and ordance with the manufacturer's tions. Material damaged shall be rejected with undamaged material at the expense. Repair of damaged material will be permitted. Rates are to include for amage and protecting sheets through all estruction.
NSPECTION	I PRIOR TO INSTALLATION
	encing installation, the contractor shall following items have been checked and
a.	The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
b.	Purlins and girths are at the correct spacing and are within the specified tolerances.
C.	The corners of the roof are square and the wall framework is perpendicular or as specified.
d.	No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
e.	All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
f.	Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
g.	The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be
	Carried Forward
Section No. 6 Bill No. 2 Roof Coverin	

	Brought Forward	1		F	₹	
	inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.					
	PROTRUSION THROUGH SHEETED SURFACES					
	Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.					
	<u>GUARANTEE</u>					
	The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.					
	PROFILED METAL SHEETING AND ACCESSORIES					
	"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins					
1	Roof covering with pitch not exceeding 25 degrees	m2	16			
	ROOF AND WALL INSULATION					
	"Sisalation 410" housing grade glass fibre reinforced aluminium foil bonded insulation					
2	Insulation laid taut over purlins (at approximately 1 100mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	16			
	Carried Forward to Summary of Section No. 6 Section No. 6 Bill No. 2 Roof Coverings			F	R	_

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 3				
	CARPENTRY AND JOINERY				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Fixing				
	Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete.				
	Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere.				
	Joinery				
	Descriptions of frames shall be deemed to include frames, transomes, rails, etc.				
	Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
	ROOFS, ETC				
	Carried Forward			R	
	Section No. 6 Bill No. 3 Carpentry & Joinery			, ,	

Brought Forward			R	
Plate nailed timber roof truss construction				
The following is applicable in respect of roof trusses:				
Trusses are at maximum 1,10m centres				
Roof covering is galvanised "IBR" roof sheeting with "Globalcoat" finish on one side on 50 x 75mm purlins at 1,1m maximum centres.				
Ceilings are generally 6,4mm gypsum plasterboard on 38 x 38mm brandering.				
All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
All joints to be close fitted butt joints.				
Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
Tenderers must study the roof plan and sections as attached to the back of these bills of quantities (refer drawing No.'s CLASS-4 - 001 to 002) and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
Sawn softwood				
50 x 75mm Purlins	m	30		
Sundries				
Two coats creosote on sawn timbers	m2	19		
EAVES, VERGES, ETC				
Carried Forward			R	
Section No. 6 Bill No. 3				
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	Brought Forward			R	
	High density plain fibre-cement fascias and barge boards				
3	325 x 15mm Fascias and barge boards, including galvanised steel H-profile joiners	m	37		
	Carried Forward to Summary of Section No. 6 Section No. 6 Bill No. 3			R	_
	Carpentry & Joinery				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 4				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	Openings in ceilings for light fittings etc. are to include for additional suspension as required				
	<u>Ceilings</u>				
	Unless otherwise decribed ceilings shall be deemed to be horizontal				
	<u>Fixings</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork or concrete.				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
	CEILINGS ETC				
	"Aerolite" insulation				
1	75mm Insulation closely fitted and laid on top of brandering between roof timbers etc	m2	16		
	FLUSH PLASTERED SUSPENDED CEILINGS				
	6.4mm Taper-edge gypsum plasterboard with taped and skimmed flush joints				
2	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres in one direction	m2	16		
	Carried Forward Section No. 6 Bill No. 4			R	
	Ceilings and Partitions				
	1		Į	1	ı I

	Brought Forward			R	
3	Extra over ceiling for 600 x 600mm trap door of 32 x 44mm wrought softwood rebated framing with one cross brander, covered with ceiling board and fitted flush in opening, including necessary trimmers around	No	1		
	Cornices				
4	75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders	m	16		
					_
	Carried Forward to Summary of Section No. 6 Section No. 6			R	<u></u>
	Bill No. 4 Ceilings and Partitions				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 5				
	<u>IRONMONGERY</u>				
	SUPPLEMENTARY PREAMBLES				
	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 AS Anodised silver AB Anodised bronze AG Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded NP Nickle plated				
	LOCKS				
	"Mazac Tarpon"				
1	"952/4L" four lever lockset and handles with chrome plated finish	No	1		
	PUSH PLATES AND KICKING PLATES				
	<u>"Dorma"</u>				
2	"dkp-ss-161" Stainless steel kickplate plate size 813 x 300mm high fixed to timber	No	2		
	LETTERS, NAMEPLATES, ETC				
3	60 x 3mm Thick perspex plate with two 40mm high engraved and painted numerals	No	1		
	<u>SUNDRIES</u>				
	<u>"Union"</u>				
4	"AL8730AS" door stop plugged	No	1		
	Carried Forward to Summary of Section No. 6 Section No. 6 Bill No. 5 Ironmongery			R	

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 6				
	<u>METALWORK</u>				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described				
	PRESSED STEEL DOOR FRAMES				
	1,2mm Double rebated frames suitable for one brick walls				
1	Frame for door 813 x 2 032mm high	No	1		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6 Bill No. 6				
	Metalwork				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 7				
	GLAZING				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	GLAZING TO STEEL WITH PUTTY				
	6,38mm Normal strength clear laminated safety glass				
1	Panes not exceeding 0,1 m2	m2	1		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6 Bill No. 7				
	Glazing				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 8				
	PAINTWORK				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	SUPPLEMENTARY PREAMBLES				
	SANS Specifications				
	Alkali resistant primer - SANS 1416				
	Wash primer (metal etch) - SANS 1001 - 1				
	Primers for internal wood work - SANS 678 Type 111				
	Gloss enamel paint - SANS 630				
	Undercoat for paints (Except emulsion paint) - SANS 681 Type 1				
	Aluminium paint - SANS 682 Grade 11				
	Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)				
	PAINTWORK, ETC. TO PREVIOUSLY PAINTED SURFACES				
	Carried Forward			R	
	Section No. 6 Bill No. 8 Paintwork				

	Brought Forward			R	
	PREPARATORY WORK TO EXISTING WORK				
	Previously painted plastered surfaces				
	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				
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
	Previously painted wood surfaces				
	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				
	PAINT SPECIFICATIONS				
	All painting shall be done in accordance with Dulux or other approved specifications unless otherwise described				
	ON INTERNAL FLOATED PLASTER SURFACES				
	Prepare and sand down existing surfaces and apply "Plascon" or other equally approved Primer (PP700) and two coats "Velvaglo" water based paint for interior use				
1	On Walls	m2	43		
	PAINTWORK, ETC. TO NEW SURFACES				
	ON PLASTERBOARD SURFACES				
	"Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use				
2	Ceilings and cornices, including priming metal	m2	16		
					_
	Carried Forward Section No. 6 Bill No. 8 Paintwork			R	
	123				1

	Brought Forward			R	
	ON FIBRE-CEMENT BOARD SURFACES				
	"Plascon" or other approved alkali resistant primer and two coats "Nu-Roof" emulsion paint for exterior use				
3	Fascias and barge boards	m2	19		
	ON METAL				
	Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steel				
4	On door frames	m2	3		
	ON WOOD				
	Three coats polyurethane semi-gloss varnish				
5	On doors	m2	4		
	Carried Forward to Summary of Section No. 6 Section No. 6			R	
	Bill No. 8 Paintwork				

Item No		Unit	Quantity	Rate	Amount
	BILL NO. 9				
	PROVISIONAL SUMS				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned				
	All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned				
	ELECTRICAL				
1	Provide an amount of R10,000.00 (Ten Thousand Rand) for electrical works		Item		10,000.00
2	Profit on above item			%	
3	Attendance on ditto			%	
	Carried Forward to Summary of Section No. 6 Section No. 6 Bill No. 9 Provisional Sums			R	

	SECTION SUMMARY - Block G - Guard House			
Bill No		Page No		Amount
1	Alterations	110		
2	Roof Coverings	113		
3	Carpentry & Joinery	116		
4	Ceilings and Partitions	118		
5	Ironmongery	119		
6	Metalwork	120		
7	Glazing	121		
8	Paintwork	124		
9	Provisional Sums	125		
	Carried to Final Se Section No. 6	ummary	R	
	Seculitivo. U			

		Unit	Quantity	Rate	Amount
SECTION	NO. 7				
BILL NO.	<u>1</u>				
DEMOLIT	<u>IONS</u>				
General gui	ide (Demolishing of pit latrines)				
demolition of at schools sanitation far pit toilets winfrastructure a) In o and Nation 107	ng is a general guide recommended for f both the Active or Inactive plain pit latrines where adequate and acceptable forms of cilities have been provided but the old plain were not demolished soon after the new e provisioning. In the active or Inactive plain pit latrines where adequate and acceptable forms of cilities have been provided but the old plain were not demolished soon after the new e provisioning. In the active or Inactive plain pit latrines where adequate and acceptable forms of cilities active and acceptable forms of plain pit latrines where adequate and acceptable forms of cilities active have been provided but the old plain were acceptable forms of cilities acceptable forms of cilities acceptable forms of cilities and acceptable forms of cilities have been provided but the old plain were not demolished by hand.				
requ safe	upational Health and Safety Act uirements shall be adhered to in terms of ty for the learners, teachers and the public ing the demolition process.				
	Thus all necessary cordoning-off of the works area should be adhered to at all times.				
	 As far as practically possible, no open excavations will be left overnight. In the even that it happens, proper and adequate barricading and warning signage shall be put in place. 				
,	 The entire area shall be demarcated during the demolition with one person directly and exclusively monitoring that there are no learners near or in the demarcated area. 				
inclu com	demolition and rehabilitation process uding the finished rehabilitated site should ply with the National Environmental agement Act requirements.				
Section No. Bill No. 1 Demolition o	Carried Forward 7 If existing toilet			R	

Item No

		Brought Forward	R	
d)	complete structure	nolishing of a structure shall entail the breakdown of the above ground and the removal of any metal roof and the latter and any metal may not be		
e)	down ar	ow ground pit structure shall be broken and compacted to such an extent that a no voids larger than 300x300x300mm.		
f)	under a	re demolished structure shall be buried layer of clean, uncontaminated virgin least 500mm depth.		
g)		ly no material shall be left on site or after completion.		
h)		ntractor shall take pictures at the milestones:		
	ii. 	Upon arrival at the school of the School name and the main gate. Near and far picture of the structure to be demolished before commencement with signboard showing School name, EMIS number, location and date of		
	iii.	work. After demolishing of above ground		
	iv. /	After demolishing of below ground structure showing clearly demolished material of internal structure and proof that any covering and/or internal masonry work has been properly demolished and compacted and a yardstick showing that al off the debris is at a depth of 500mm or more.		
	V	After covering of demolished structure showing clearly clean virgin soil and demarcation of area with sign board in place and absolutely no material left on site.		
ection II No.	No. 7	Carried Forward	R	
		sting toilet		

	Brought Forward			R	
	Demolish existing unsafe structures				
1	Break down and demolish existing buildings complete with roofs, external and internal brick walls, surface beds, etc. digging out and removing foundation walls and footings, and cart away etc. of all rubble and leaving no visible sign of the building (PIT TOILET)	No	10		
	Carried to Final Summary Section No. 7 Bill No. 1 Demolition of existing toilet			R	

Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 8			N.	
	BILL NO. 1				
	ENVIROLOO TOILETS (ALL TRADES BILL)				
	PREAMBLESFor preambles refer to Specification of Materials and Method to be used				
	SITE CLEARANCE ETC				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	67		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	67		
	EXCAVATIONS, FILLING, ETC, OTHER THAN BULK				
	Excavation in earth not exceeding 2m deep				
3	Pit	m3	66		
4	Trenches in pit	m3	6		
	Excavation in earth not exceeding 2m deep				
5	Trenches	m3	8		
	Extra over trench and hole excavations in earth for excavation in				
6	Soft rock	m3	4		
7	Hard rock	m3	2		
	Extra over all excavations for carting away				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	74		
	Risk of collapse of excavations				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	43		
	Carried Forward			R	
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary				

	Brought Forward			R	
10	Sides of trench and pit excavations exceeding 1,5m deep	m2	47		
	Earth filling obtained from the excavations on site and compacted to 93% Mod AASHTO density				
11	Backfilling to trenches, holes, etc	m3	12		
12	Under floors, steps, paving etc,.	m3	5		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	42		
	Approved soil insecticide				
14	Under floors etc including forming and poisoning V- shaped channels against foundation walls etc, filling in channels and ramming	m2	42		
15	To bottom and sides of trenches, holes etc	m2	65		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	Test Blocks				
16	Making of 150 x 150 x 150mm concrete strength test cube, label and send to an approved laboratory for testing, including paying all charges and submit report to the Agent. (only successful tests will be paid for)	No	3		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
17	Strip footings	m3	4		
18	Strip footings in pit	m3	3		
19	Thickening under surface bed	m3	1		
20	Surface beds in pit	m3	3		
21	In surface beds cast on waterproofing(elsewhere)	m3	1		
	Carried Forward			R	
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary			.`	

	Brought Forward			R		Ī
22	In surface beds cast to falls	m3	1			l
23	In aprons/pavings/ramps cast in panels	m3	1			1
24	Thickening down apron on edge 110 x 200mm wide, including all necessary excavations, backfilling and compacting.	m	14			
25	Slabs	m3	2			ı
	<u>SUNDRIES</u>					l
	Finishing top surfaces of concrete smooth with a woodfloat					
26	Aprons, pavings, ramps, etc	m2	4			1
	Finishing top surfaces of concrete with a steel trowel					l
27	Surface beds, slabs, etc.	m2	26			ı
	<u>FORMWORK</u>					1
	ROUGH FORMWORK (DEGREE OF ACCURACY III)					l
	Rough formwork to					1
28	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	3			
	Permanent formwork to soffits					l
29	Corrugated iron sheets as permanent formwork	m2	9			l
30	Form 500mm diameter opening in floor slab	No	2			ı
	REINFORCEMENT (PROVISIONAL)					l
	Fabric reinforcement					1
31	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	26			
	BRICKWORK IN FOUNDATIONS (PROVISIONAL)					
						l
	Carried Forward			R		
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary					
	l					

Ī	Brought Forward			R	
	Brickwork of NFX bricks (14MPa nominal compressive strenght) in class I mortar in foundations				
32	One brick walls in holes	m2	26		
33	One brick walls	m2	10		
34	115mm Brick corbelling in pit	m	17		
	Brickwork reinforcement				
35	150mm Wide reinforcement built in horizontally	m	424		
	FACE BRICKWORK				
	Equal and approved facebricks to match existing pointed with recessed horizontal and vertical joints				
36	Extra over brickwork for face brickwork	m2	23		
	INTERNAL PLASTER				
	Cement plaster on brickwork;				
37	On walls in pit	m2	29		
	FLOOR AND WALL SEALERS				
	Minimum two coats 'approved' black epoxy coat:Cement plaster on brickwork;				
38	On internal textured plaster walls	m2	29		
	SUPERSTRUCTURE				
	Brickwork of NFP bricks (7 MPa nominal compressive strength) in class II mortar				
39	Half brick walls in beamfilling	m2	3		
40	Half brick walls	m2	10		
41	One brick walls	m2	26		
	Brickwork reinforcement				
42	75mm Wide reinforcement built in horizontally	m	229		
	Carried Forward			R	
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary			11	

	Brought Forward			R		
43	150mm Wide reinforcement built in horizontally	m	134			
	Turning pieces					
44	115mm Wide turning pieces to lintels etc	m	6			
	Galvanised wire ties etc					
45	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	m	10			
	Prestressed fabricated lintels					
46	110mm x 70mm Lintol not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	3			
47	110mm x 70mm Lintol exceeding 3m long, hoisted into position and laid over slab					
	F	m	8			
	FACE BRICKWORK					
	Facebricks pointed with recessed horizontal and vertical joints					
48	Face brick piers	m3	0.3			
49	Half brick walls	m2	17			
50	Extra over brickwork for face brickwork	m2	21			
51	Fair raking cutting	m	11			
	Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces					
52	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	2			
53	Extra over brickwork for brick-on-edge 100mm wide sill set sloping and slightly projecting	m	2			
54	Extra over copping	m	2			
	DAMPPROOFING OF WALLS AND FLOORS					
	NUTEC-CEMENT WINDOW SILLS					
	Carried Forward Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary			R		
		l			I	I

	Brought Forward			R	
	Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc				
55	15 x 150mm Wide sills set flat and slightly projecting	m	2		
	One layer of type 375 micron Consol Plastics Brikgrip DPC or equal and approved embossed damp proof course				
56	In walls	m2	4		
	Polyolefin 0,25mm damp proof membrane sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped 200mm and sealed in accordance with the manufacturer's instruction				
57	Under surface beds	m2	21		
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "IBR" Z275 spelter galvanised troughed sheet steel in single lengths fixed to timber purlins and 0,6mm galvanised sheet steel accessories				
58	Roof covering with pitches not exceedin 25 degrees	m2	16		
	ROOFS CONSTRUCTION				
59	Roof construction over Enviro-loo toilet building approximate flat area, 10 m2 on plan complete including trusses, jackrafters, bracing and hoisting into position approximately 2,5m high above floor level all in accordance with the Architects drawings at the back of these bills of quantities.				
	those sine of quantities.	No	1		
	Sawn softwood grade 4				
60	38 x 114mm Wall plates	m	9		
	<u>Sundries</u>				
61	Two coats creosote on sawn timbers	m2	13		
62	4mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	m	10		
	EAVES, VERGES, ETC				
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary			R	

	Brought Forward			R	
	"Everite FC77" pressed fibre-cement				
63	15 x 230mm Fascias boards including galvanised steel H-profile jointing strips	m	17		
	INSULATION				
	Aerolite insulation.				
64	50mm Insulation closely fitted and laid on top of brandering, between roof timbers.	m2	7		
	LOCKS				
	"Union" or equal and approved				
65	682-24-52 SC Three Lever lockset	No	2		
	LETTERS, NAMEPLATES, ETC				
66	75 x 150mm Natural anodised aluminium plate with male/female symbol	No	2		
	FITINGS ETC				
	"Nampak"				
67	"TR2" lockable toilet roll holder plugged	No	1		
	SUNDRIES				
68	38mm Diameter rubber door stop plugged	No	2		
	WELDED SCREENS, GATES, ETC				
69	Single gate 900 x 2215mm hiigh formed of 50 x 50 x 2.5mm square tubing outer frame, with 30 x 30 x 2mm diagonal square tubing bars welded at 100mm centres maximum, complete with bullet hinges welded on, and locking mechanism suitable for and including padlock. PRESSED STEEL COMBINATION DOORS AND FRAMES INCLUDING BUILDING INTO	No	2		
	BRICKWORK				
	GALVANISED PRESSED STEEL COMBINATION DOORS AND FRAMES				
70	Standard Door 813 x 2032mm high with rebated frame suitable for one brick wall with padlatch	No	2		
				_	
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary			R	

	Brought Forward			R	
	STEEL WINDOWS, DOORS, ETC				
	Standard residential windows complete with furniture and 15 x15mm solid mild steel horizontal bars at equal spacing welded to inside of opennable section				
71	Window type NE1, 533 x 654mm high	No	3		
	EXTERNAL PLASTER				
	Cement plaster on brickwork				
72	On walls	m2	8		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
73	On walls	m2	41		
	GRANOLITHIC				
	Untinted granolithic floor finish on concrete				
74	40mm Thick on floors and landings	m2	16		
75	75mm High coved skirtings	m	16		
	PLUMBING AND DRAINAGE				
	SANITARY FITTINGS (PROVISIONAL)				
76	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	2		
	WASTE UNIONS, ETC				
77	32mm "301CP" Basin waste union	No	2		
	TRAPS, ETC				
	"Marley"				
78	32 x 50mm Deep seal "P" or "S" trap	No	2		
	SANITARY PLUMBING				
				_	
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary			R	

	Brought Forward			R		
	uPVC pipes					
79	50mm Pipes	m	15			
80	110mm Pipes	m	10			
	Extra over uPVC pipes for fittings					
81	50mm Bend	No	4			
82	100mm Bend	No	2			
83	50 mm Junction	No	4			
84	50mm Access junction	No	4			
85	50mm Access bend	No	4			
86	110mm Access Junction	No	2			
87	50mm Access reducing junction	m	4			
88	50mm "GI Two-way" vent valve	No	4			
	WATER SUPPLY					
	Class 0 copper pipes					
89	15 mm Pipes	m	15			
90	15mm Pipes chased in walls	m	18			
91	22mm Pipes	m	15			
	Extra over class 0 copper pipes for capillary fittings					
92	15mm Fittings	No	6			
93	22mm Fittings	No	6			
	Copper overflow and service pipes					
94	15mm Service pipe 350mm girth	No	6			
	FIRE APPLIANCES ETC					
	"Chubb"					
95	4,5kg Carbon dioxide fire extinguisher	No	1			
						<u> </u>
	Carried Forward			R		
	Section No. 8 Bill No. 1					
	2 Enviroloo Toilets & 4 Urinary					
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	Brought Forward			R	
	Enviroloo Unit				
96	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction - manufacturer to supply and delivery arrangements contact 011 762 1624 of Enviroloo Options.	No	2		
97	Erect "Enviroloo" urinals complete as per manufacturers instruction - manufacturer to supply and delivery arrangements contact 011 762 1624 of Enviroloo Options.				
	Ориоло.	No	4		
	5mm Clear float glass				
	GLAZING TO STEEL WITH PUTTY				
98	Panes not exceeding 0.1m2.	m2	2		
	PAINTWORK, ETC				
	On Floated Plaster				
	One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint				
99	On external walls	m2	8		
	One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint				
100	On internal walls	m2	41		
	ON FLOATED PLASTER				
	ON FIBRE CEMENT				
	One coat primer, one coat universal undercoat and two coats "Plascon Velvaglo Polyurethane Enamel" or equal and approved paint				
101	On fascia and barge boards	m	17		
	ON METAL				
	Spot primer defects in pre-primed surfaces with zinc chromate primer UC 53, one universal undercoat and two coats Velvaglo or equal and approved enamel paint				
102	On pressed steel door frames	m2	3		
					_
	Section No. 8 Bill No. 1 2 Enviroloo Toilets & 4 Urinary			R	

	Brought Forward			R	
103	On windows with burglar bars (both sides measured)	m2	4		
103	On windows with burglar bars (both sides measured) On screens, gates etc (both sides measured)	m2 m2	4 8		
	Carried to Final Summary Section No. 8			R	
	Bill No. 1 2 Enviroloo Toilets & 4 Urinary				

Item No			Quantity	Rate	Amount
	SECTION NO. 9	ļ			
	BILL NO. 1				
	ENVIROLOO TOILETS (ALL TRADES BILL)				
	PREAMBLESFor preambles refer to Specification of Materials and Method to be used				
	SITE CLEARANCE ETC				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	83		
2	Stripping average 150mm thick layer of top soil and stockpiling on site	m2	83		
	EXCAVATIONS, FILLING, ETC, OTHER THAN BULK				
	Excavation in earth not exceeding 2m deep				
3	Pit	m3	84		
4	Trenches in pit	m3	7		
	Excavation in earth not exceeding 2m deep				
5	Trenches	m3	5		
	Extra over trench and hole excavations in earth for excavation in				
6	Soft rock	m3	5		
7	Hard rock	m3	2		
	Extra over all excavations for carting away				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	92		
	Risk of collapse of excavations				
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	42		
	Carried Forward			R	
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled				

	Brought Forward			R	
10	Sides of trench and pit excavations exceeding 1,5m deep	m2	53		
	Earth filling obtained from the excavations on site and compacted to 93% Mod AASHTO density				
11	Backfilling to trenches, holes, etc	m3	4		
12	Under floors, steps, paving etc,.	m3	8		
	Compaction of surfaces				
13	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	53		
	Approved soil insecticide				
14	Under floors etc including forming and poisoning V-shaped channels against foundation walls etc, filling in channels and ramming	m2	53		
15	To bottom and sides of trenches, holes etc	m2	81		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	Test Blocks				
16	Making of 150 x 150 x 150mm concrete strength test cube, label and send to an approved laboratory for testing, including paying all charges and submit report to the Agent. (only successful tests will be paid for)	No	3		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
17	Strip footings	m3	3		
18	Strip footings in pit	m3	3		
19	Thickening under surface bed	m3	2		
20	Surface beds in pit	m3	2		
21	In surface beds cast on waterproofing(elsewhere)	m3	2		
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled			R	

	Brought Forward			R		
22	In surface beds cast to falls	m3	2			
23	In aprons/pavings/ramps cast in panels	m3	2			
24	Thickening down apron on edge 110 x 200mm wide, including all necessary excavations, backfilling and compacting.	m	56			
25	Slabs	m3	3			
	SUNDRIES					
	Finishing top surfaces of concrete smooth with a woodfloat					
26	Aprons, pavings, ramps, etc	m2	12			
	Finishing top surfaces of concrete with a steel trowel					
27	Surface beds, slabs, etc.	m2	33			
	<u>FORMWORK</u>					
	ROUGH FORMWORK (DEGREE OF ACCURACY III)					
	Rough formwork to					
28	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	28			
	Permanent formwork to soffits					
29	Corrugated iron sheets as permanent formwork	m2	22			
30	Form 500mm diameter opening in floor slab	No	4			
	REINFORCEMENT (PROVISIONAL)					
	Fabric reinforcement					
31	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	22			
	BRICKWORK IN FOUNDATIONS (PROVISIONAL)					
	Carried Forward			R		
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled					
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	Brought Forward			R	
	Brickwork of NFX bricks (14MPa nominal compressive strenght) in class I mortar in foundations				
32	One brick walls in holes	m2	38		
33	One brick walls	m2	7		
34	115mm Brick corbelling in pit	m	23		
	Brickwork reinforcement				
35	150mm Wide reinforcement built in horizontally	m	530		
	FACE BRICKWORK				
	Equal and approved facebricks to match existing pointed with recessed horizontal and vertical joints				
36	Extra over brickwork for face brickwork	m2	31		
	INTERNAL PLASTER				
	Cement plaster on brickwork;				
37	On walls in pit	m2	38		
	FLOOR AND WALL SEALERS				
	Minimum two coats 'approved' black epoxy coat:Cement plaster on brickwork;				
38	On internal textured plaster walls	m2	38		
	SUPERSTRUCTURE				
	Brickwork of NFP bricks (7 MPa nominal compressive strength) in class II mortar				
39	Half brick walls in beamfilling	m2	4		
40	Half brick walls	m2	20		
41	One brick walls	m2	39		
	Brickwork reinforcement				
42	75mm Wide reinforcement built in horizontally	m	395		
				_	\vdash
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled			R	

	Brought Forward	ĺ		R		
43	150mm Wide reinforcement built in horizontally	m	189		I	
	Turning pieces					
44	115mm Wide turning pieces to lintels etc	m	12			
	Galvanised wire ties etc					
45	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	m	12			
	Prestressed fabricated lintels					
46	110mm x 70mm Lintol not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	10			
47	110mm x 70mm Lintol exceeding 3m long, hoisted into position and laid over concrete slab	m	10			
	FACE BRICKWORK					
	Facebricks pointed with recessed horizontal and vertical joints					
48	Face brick piers	m3	0.3			
49	Half brick walls	m2	22			
50	Extra over brickwork for face brickwork	m2	30			
51	Fair raking cutting	m	22			
	Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces					
52	Extra over brickwork for brick-on-edge header course lintel pointed on face and 110mm soffit	m	3			
53	Extra over brickwork for brick-on-edge 100mm wide sill set sloping and slightly projecting	m	3			
54	Extra over copping	m	3			
	DAMPPROOFING OF WALLS AND FLOORS					
	NUTEC-CEMENT WINDOW SILLS					
	Carried Forward			R		
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled			ĸ		

	Brought Forward			R	İ
	Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc				
55	15 x 150mm Wide sills set flat and slightly projecting	m	3		
	One layer of type 375 micron Consol Plastics Brikgrip DPC or equal and approved embossed damp proof course				
56	In walls	m2	7		
	Polyolefin 0,25mm damp proof membrane sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped 200mm and sealed in accordance with the manufacturer's instruction				
57	Under surface beds	m2	53		
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,6mm "IBR" Z275 spelter galvanised troughed sheet steel in single lengths fixed to timber purlins and 0,6mm galvanised sheet steel accessories				
58	Roof covering with pitches not exceedin 25 degrees	m2	23		
	ROOFS CONSTRUCTION				
59	Roof construction over Enviro-loo toilet building approximate flat area, 16 m2 on plan complete including trusses, jack rafters, bracing and hoisting into position approximately 2,5m high above floor level all in accordance with the Architects drawings at the back of these bills of quantities.				
	these bills of qualitates.	No	1		
	Sawn softwood grade 4				
60	38 x 114mm Wall plates	m	14		
	Sundries				
61	Two coats creosote on sawn timbers	m2	12		
62	4mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	m	9		
	EAVES, VERGES, ETC				
	Cowied Femuera			D	
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled			R	

	Brought Forward			R	Ì
	"Everite FC77" pressed fibre-cement				
63	15 x 230mm Fascias boards including galvanised steel H-profile jointing strips	m	21		
	INSULATION				
	Aerolite insulation.				
64	50mm Insulation closely fitted and laid on top of brandering, between roof timbers.	m2	12		
	LOCKS				
	"Union" or equal and approved				
65	682-24-52 SC Three Lever lockset	No	4		
	LETTERS, NAMEPLATES, ETC				
66	75 x 150mm Natural anodised aluminium plate with female symbol	No	4		
67	75 x 150mm Natural anodised aluminium plate with paraplegic symbol	No	1		
	FITINGS ETC				
	"Chairman Industries"				
68	32mm Type DL2 side grab rail plugged	No	1		
69	32mm Type SR2 rear grab rail plugged	No	1		
	"Nampak"				
70	"TR2" lockable toilet roll holder plugged	No	1		
	SUNDRIES				
71	38mm Diameter rubber door stop plugged	No	5		
	WELDED SCREENS, GATES, ETC				
72	Single gate 900 x 1615mm high formed of 50 x 50 x 2.5mm square tubing outer frame, with 30 x 30 x 2mm diagonal square tubing bars welded at 100mm centres maximum, complete with bullet hinges welded on, and locking mechanism suitable for and including padlock.	No	2		
	Carried Forward			R	
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled				

	Brought Forward	ı [R	
	PRESSED STEEL COMBINATION DOORS AND FRAMES INCLUDING BUILDING INTO BRICKWORK				
	GALVANISED PRESSED STEEL COMBINATION DOORS AND FRAMES				
73	Standard Door 813 x 2032mm high with rebated frame suitable for one brick wall with padlatch	No	4		
	APPROVED STEEL DOORS, ETC				
	0.88mm Zinc coated Combi standard steel door				
74	Door size 1200 x 2100mm high	No	1		
	DOOR FRAMES, INCLUDING BUILDING INTO BRICKWORK				
	1,2mm Double rebated Zinc coated (Galvanised) standard steel door frames suitable for one brick walls with Padlatch				
75	Frame for door 1200 x 2100mm high	No	1		
	STEEL WINDOWS, DOORS, ETC				
	Standard residential windows complete with furniture and 15 x15mm solid mild steel horizontal bars at equal spacing welded to inside of opennable section				
76	Window type NE1, 533 x 654mm high	No	5		
	EXTERNAL PLASTER				
	Cement plaster on brickwork				
77	On walls	m2	11		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
78	On walls	m2	72		
	GRANOLITHIC				
	Carried Forward	ı		R	
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled				

	Brought Forward			R	
	Untinted granolithic floor finish on concrete				
79	40mm Thick on floors and landings	m2	23		
80	75mm High coved skirtings	m	24		
	PLUMBING AND DRAINAGE				
	SANITARY FITTINGS (PROVISIONAL)				
81	450 x 290mm "Bantam" cloakroom hand basin complete with single punched tapholes fixed to wall with and including two number 10mm bolts	No	3		
	WASTE UNIONS, ETC				
82	32mm "301CP" Basin waste union	No	3		
	TRAPS, ETC				
	"Marley"				
83	32 x 50mm Deep seal "P" or "S" trap	No	3		
	SANITARY PLUMBING				
	uPVC pipes				
84	50mm Pipes	m	25		
	Extra over uPVC pipes for fittings				
85	50mm Bend	No	3		
86	50 mm Junction	No	3		
87	50mm Access junction	No	3		
88	50mm Access bend	No	3		
89	50mm Access reducing junction	m	3		
90	50mm "GI Two-way" vent valve	No	3		
	WATER SUPPLY				
	Class 0 copper pipes				
91	15 mm Pipes	m	20		
	Carried Forward			R	
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled				

	Brought Forward			R	
92	15mm Pipes chased in walls	m	25		
93	22mm Pipes	m	21		
	Extra over class 0 copper pipes for capillary fittings				
94	15mm Fittings	No	3		
95	22mm Fittings	No	3		
	Copper overflow and service pipes				
96	15mm Service pipe 350mm girth	No	3		
	FIRE APPLIANCES ETC				
	"Chubb"				
97	4,5kg Carbon dioxide fire extinguisher	No	1		
	Enviroloo Unit				
98	Erect "Enviroloo" set up and fixed complete as per manufacturers instruction - manufacturer to supply and delivery arrangements contact 011 762 1624 of Enviroloo Options.	No	5		
	5mm Clear float glass				
	GLAZING TO STEEL WITH PUTTY				
99	Panes not exceeding 0.1m2.	m2	2		
	PAINTWORK, ETC				
	On Floated Plaster				
	One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint				
100	On external walls	m2	11		
	One coat alkali resistant primer, one undercoat and two coats eggshell enamel paint				
101	On internal walls	m2	72		
	ON FLOATED PLASTER				
	ON FIBRE CEMENT				
	Section No. 9 Bill No. 1 4 Enviroloo Toilets & Disabled			R	

	Brought Forward			R		
	One coat primer, one coat universal undercoat and two coats "Plascon Velvaglo Polyurethane Enamel" or equal and approved paint					
102	On fascia and barge boards	m	21			
	ON METAL					
	Spot primer defects in pre-primed surfaces with zinc chromate primer UC 53, one universal undercoat and two coats Velvaglo or equal and approved enamel paint					
103	On pressed steel door frames	m2	5			
104	On windows with burglar bars (both sides measured)	m2	4			
105	On screens, gates etc (both sides measured)	m2	6			
						_
	Carried to Final Summary			R		
	Section No. 9 Bill No. 1					
	4 Enviroloo Toilets & Disabled					
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Item No		Unit	Quantity	Rate	Amount
	SECTION NO. 10			li .	
	BILL NO. 1				
	EXTERNAL WORKS (ALL TRADES)				
	PREAMBLES				
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item				
	THE FOLLOWING IN APRONS & WALKWAYS				
	<u>Earthworks</u>				
1	Excavate in earth to reduce levels	m3	96		
2	Extra over on excavations for surplus material from excavations and/or stock piles to an approved dumping site located by the contractor	m3	96		
3	Backfilling with G5 material under bases supplied and carted onto site by the Contractor all in accordance with SABS 1200Dm compacted in layers of 150mm to 93% Mod. AASHTO maximum density	m3	48		
4	Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 97% Mod. AASHTO density	m2	320		
5	Approved brand of anti-termite soil poison applied by a registered pest control company and guaranteed against termite infestation for ten years under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m2	320		
6	Modified AASHTO Density tests on fillings as pointed out by the Engineer on site to the approval of the Project Manager.	No	8		
	Carried Forward Section No. 10 Bill No. 1 External Works			R	

	Brought Forward			R	
	Concrete, Formwork & Reinforcement				
7	Reinforced concrete 30MPa/19mm in aprons	m3	48		
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional).	No	8		
9	Finishing top surfaces of concrete aprons smooth with a steel trowel to falls	m2	320		
10	10 x 10mm In horizontal expansion joints including raking out expansion joint filler as necessary	m	107		
	Fabric reinforcement				
11	Type 193 fabric reinforcement in aprons and v-drains	m2	320		
	Waterproofing				
	Joint sealants, etc.				
12	10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary	m	107		
	ELEVATED WATER TANK				
	Excavation in earth not exceeding 2m deep below natural, reduced or made up ground level				
13	Holes	m3	3		
14	Extra over on excavations for surplus material from excavations and/or stock piles to an approved dumping site located by the contractor	m3	4		
	Risk of collapse of excavations				
15	Sides of trench and hole excavations not exceeding 1.5m deep	m2	14		
16	Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 97% Mod. AASHTO density	m2	3		
	Section No. 10 Bill No. 1 External Works			R	

	Brought Forward			R	
17	Backfilling with G5 material under floors, bases, etc. supplied and carted onto site by the Contractor all in accordance with SABS 1200Dm compacted in layers of 150mm to 93% Mod. AASHTO maximum den	m3	3		
18	Modified AASHTO Density tests on fillings as pointed out by the Engineer on site to the approval of the Project Manager.	No	1		
19	Approved brand of anti-termite soil poison applied by a registered pest control company and guaranteed against termite infestation for ten years under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m2	3		
	Concrete, Formwork & Reinforcement				
20	Reinforced concrete 30Mpa/19mm in bases	m3	3		
21	Surface bed	m3	1		
22	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional).	No	1		
	REINFORCEMENT (PROVISIONAL)				
	Mild steel reinforcement to structural concrete work				
23	Bars of various diameters	t	0.45		
	Structural Steel				
	Painted Trusses, Columns, etc				
	Purlins, girts, bracing etc. bolted to steel				
24	70 x 70 x 6 angle	t	0.17		
25	50 x 50 x 3 angle	t	0.10		
26	125 x 75 x 8 angle	t	0.15		
27	125 x 50 x 20 x 2 CFLC	t	0.10		
28	30 x 5 flat bar	t	0.15		
	Carried Forward Section No. 10 Bill No. 1 External Works			R	

	Brought Forward			R	
	Bolts, Fasteners, etc				
29	Extra over structural steelwork for bolts, fasteners, tension cables etc	t	0.15		
	FENCING				
	Galvanised mild steel diamond mesh fencing in 50mm diamond pattern with 3.15mm straining wire and 2mm binding wire on creosoted gumpole				
30	1.8m High type 2 galvanised mesh fencing consiting of 2.5mm diameter galvanised wires and three 3.15 diameter galvanised straining wires	m	22		
31	Extra over fence for single pedestrian steel gate approximate size 900 x 2100mm high with marine fusion bond wire mesh complete with posts, keep, etc.	No	1		
	Budgetary Allowances				
	Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without and compensation for loss or profit on the said allowances				
32	Allow an amount of R 45 000.00 (Forty Five Thousand Rand) for 3 Number drinking fountains. Each drinking fountain with a cost of R 15 000.00 (Fifteen Thousand Rand)		Item		45,000.00
33	Allow an amount of R 25 000.00 (Twenty Five Thousand Rand) for water reticulation from water tanks		Item		25,000.00
34	Allow and amount of R1 500.00 (One Thousand Five Hundred Rand) to provide all necessary apparatus, water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Project Manager, replace any defective work free of charge and leave perfect for all new buildings				
	, and the second		Item		1,500.00
	Carried to Final Summary			R	
	Section No. 10 Bill No. 1 External Works				
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	FINAL SUMMARY	_		
Section No		Page No		Amount
1	Preliminaries & General	28		
2	Block A - 4 Classroom Block	47		
3	Block B - 4 Classroom Block	65		
4	Block C - 4 Classroom	86		
5	Block D - 4 Classroom	107		
6	Block G - Guard House	126		
7	Block T - Demolition of Existing Toilets	129		
8	Type B (2 Enviroloo Toilets & 4 Urinary)	140		
9	Type F (4 Enviroloo Toilets & Disabled)	151		
10	External Works	155		
	Sub Total		R	
	ADD: COMMUNITY LIAISON OFFICER			
	Allow the sum of R 45 000.00 (Forty Five Thousand Rand) per month for Community Liaison Officer for a period of 6 Months	Item		45,000.00
	Sub - Total		R	
	Add Contingency: Sum of R 200 000.00 (Two Hundred Thousand Rand) - Amount to be utilised upon written approval by Independent Development Trust and to be deducted in whole or in part if not required	Item		200,000.00
	Sub-Total		R	
	Value Added Tax (15%)		R	
	Carried to Form of Tender		R	