

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>NOTE</u>			
All prices/rates to be net, excluding Value Added Tax			
<u>General</u>			
i) The agreement is to be the JBCC Series 2005 Principal Building Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee,			
ii) The preliminaries are to be the JBCC Series 2005 Preliminaries prepared by the Joint Building Contracts Committee, May 2005 edition and shall be deemed to be incorporated herein			
iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary			
iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading			
v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
Carried Forward			R
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	Brought Forward			R
	vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time			

	SECTION A: PRINCIPAL BUILDING AGREEMENT			
	<u>Definitions (A1)</u>			
1	Definitions and interpretation (clause 1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Objective (A2)</u>			
2	Offer, acceptance and performance (clause 2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Preparation (A3-A14)</u>			
3	Documents (clause 3)			
	<i>Clause 3.1 shall be deemed to be omitted and replaced with the following:</i>			
	<i>No payment guarantee will be provided by the employer</i>			
	Fixed	Item		
	Carried Forward			R
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		Brought Forward			R
		Value Related	Item		
		Time Related	Item		
4	Design responsibility (clause 4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
5	Employer's agents (clause 5)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
6	Contractor's site representative (clause 6)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
7	Compliance with regulations (clause 7)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
8	Works risk (clause 8)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		Carried Forward			R
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		Brought Forward		R	
9	Indemnities (clause 9)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
10	General insurances (clause 10)				
		All insurances are to be taken by the Contractor			
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
11	Special insurances (clause 11)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
12	Effecting insurance (clause 12)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
13	Assignment (clause 13)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
14	Security (clause 14)				
		Fixed	Item		
		Carried Forward		R	
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	Brought Forward			R
	Value Related	Item		
	Time Related	Item		
	<u>Execution (A15-A23)</u>			
15	Preparation for and execution of the works (clause 15)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
16	Site and Access (clause 16)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
17	Contract instructions (clause 17)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
18	Setting out of the works (clause 18)			
	<i>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward			R
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	Brought Forward			R
19	Temporary Works and Plant (clause 19)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
20	Nominated sub-contractors (clause 20)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
21	Selected sub-contractors (clause 21)			
	<i>Notwithstanding the content of this clause, the contractor's attention is drawn to the fact that all the work provided for by means of the inclusion of provisional amounts elsewhere in these bills of quantities, is to be executed and installed in the works during the construction period by selected sub-contractors</i>			
	<i>The selected sub-contractors shall be chosen, as far as possible, by the principal agent together with the contractor</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
22	Employer's direct contractors (clause 22)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward			R
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	Brought Forward			R
23	Contractor's domestic sub-contractors (Clause 23)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Completion (A24-A30)</u>			
24	Practical completion (clause 24)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
25	Works completion (clause 25)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
26	Final completion (clause 26)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
27	Latent defects liability period (clause 27)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
28	Sectional completion (clause 28)			
	Fixed	Item		
	Carried Forward			R
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	Brought Forward			R
	Value Related	Item		
	Time Related	Item		
29	Revision of date of practical completion (clause 29)			
	Clause 29.1.1 shall be deemed to be omitted and replaced by the following:			
	<i>Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calender month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project</i>			
	<i>It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
30	Penalty for non-completion (clause 30)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward			R
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	Brought Forward		R	
	<u>Payment (A31 - A35)</u>			
31	Interim payment to the contractor (clause 31)			
	<i>Notwithstanding this or any other clause, materials and goods stored off site shall not to be included in the amount authorized for payment</i>			
	<i>Clause 31.6.5 shall be deemed to be deleted</i>			
	<i>Clause 31.9:</i>			
	<i>The wording "seven (7)" be replaced with "thirty (30)"</i>			
	<i>Cause 31.11.1:</i>			
	<i>The wording "one hundred and sixty per cent (160%)" be replaced with "one hundred and ten per cent (110%)"</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
32	Adjustment to the contract value (clause 32)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
33	Recovery of expense and loss (clause 33)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
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	Brought Forward			R
34	Final account and final payment (clause 34)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
35	Payment to other parties (clause 35)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Termination (A36-A39)</u>			
36	Termination by employer - contractor's default (clause 36)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
37	Termination by employer - loss and damage (clause 37)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
38	Termination by contractor - employer's default (clause 38)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward			R
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	Brought Forward			R
39	Termination - cessation of the works (clause 39)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Dispute (A40)</u>			
40	Settlement of Disputes (clause 40)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Contract Agreement (A41)</u>			
41	The schedule: Pre-tender information (clause 42)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>			
	<i>See "Notes to Tenderers" for all the relevant physical and postal addresses, telephone and facsimile numbers</i>			
	42.1.1 Employer:			
	Independent Development Trust			
	42.1.2 Client:			
	Department of Education			
	Carried Forward			R
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	Brought Forward		R
42.1.3 Agent (1): <div style="padding-left: 40px;">Koor Dindar Mothei (Pty) Ltd</div> <div style="padding-left: 40px;">Agents service: Principal Agents</div>			
42.1.4 Agent (1): <div style="padding-left: 40px;">IDC Architects (Pty) Ltd</div> <div style="padding-left: 40px;">Agents service: Architects</div>			
42.1.5 Agent (2): <div style="padding-left: 40px;">Koor Dindar Mothei (Pty) Ltd</div> <div style="padding-left: 40px;">Agents service: Quantity Surveyors</div>			
42.1.6 Agent (3): <div style="padding-left: 40px;">Nyeleti Consulting</div> <div style="padding-left: 40px;">Agents service: Structural and Civil Engineers</div>			
42.1.7 Agent (4): <div style="padding-left: 40px;">AOS Consulting Engineers</div> <div style="padding-left: 40px;">Agents service: Electrical Engineers</div>			
42.1.8 Agent (5): <div style="padding-left: 40px;">Willfen Trading</div> <div style="padding-left: 40px;">Agents service: OHS</div>			
42.1.9 Agent (7): <div style="padding-left: 40px;">Agents service:</div>			
	Carried Forward		R
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<p style="text-align: center;">Brought Forward</p> <p>42.1.10 Agent (8):</p> <p style="text-align: center;">Not applicable</p> <p>42.2 CONTRACT DETAILS</p> <p>42.2.1 Works Description:</p> <p style="text-align: center;">The works shall be as described in the "Notes to Tenderers"</p> <p>42.2.2 Site Description:</p> <p style="text-align: center;">The site shall be as described in the "Notes to Tenderers"</p> <p>42.2.3 Work or installations by direct contractors:</p> <p style="text-align: center;">Refer to notes to tenders: Item 2 Scope of contract</p> <p>42.2.4 Specific options that are applicable to a State organ only:</p> <p style="padding-left: 40px;">(1) Interest rate legislation: N/A</p> <p style="padding-left: 40px;">(2) Lateral support insurance to be effected by the contractor: N/A</p> <p style="padding-left: 40px;">(3) Payment will be made for materials and goods: N/A</p> <p style="padding-left: 40px;">(4) Dispute resolution by litigation: N/A</p> <p style="padding-left: 40px;">(5) Extended defects liability period applicable to the following elements: N/A</p> <p>42.2.5 Possession of the site is be given on:</p> <p style="text-align: center;">Date to be determined</p> <p style="text-align: center;">Carried Forward</p>	R	
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>	R	

Brought Forward			R	
42.2.6 Period for the commencement of the works after the contractor takes possession of the site: Within seven (7) working days				
42.2.7 The date for practical completion and the penalty per calendar day for the works as a whole: Date: Within ten (10) calendar months, exclusive of builders' holidays, after the date of site handover Penalty: 0,05% of the tendered amount, inclusive of value added tax				
42.2.8 The date for practical completion and the penalty per calendar day for the works in sections: <p style="text-align: right;">N/A</p> Section 1: Date: N/A Penalty: R Section 2: Date: N/A Penalty: R Section 3: Date: N/A Penalty: R Section 4: Date: N/A Penalty: R Section 5: Date: N/A Penalty: R Section 6: Date: N/A Penalty: R				
42.2.9 The law applicable to this agreement shall be that of: Republic of south Africa				
Carried Forward			R	
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	Brought Forward		R
<u>42.3 INSURANCES</u>			
42.3.1 Contract works insurance:			
To be effected by: Contractor			
For the sum of: Tendered amount			
plus 20%			
With a deductible of: to be determined by			
the contractor			
42.3.2 Supplementary insurance is required:	No		
42.3.3 Public liability insurance:	Yes		
To be effected by: Contractor			
For the sum of: R 10 000 000-00			
With a deductible of: to be determined by			
the contractor			
42.3.4 Support insurance to be effected by the employer:	No		
<u>42.4 DOCUMENTS</u>			
41.4.1 Waivers of contractor's lien or right of continuing possession is required:	Yes		
42.4.2 Construction document copies to be supplied to the contractor free of charge:			
Three (3) copies of each			
42.4.3 Bills of quantities drawn up in accordance with:			
Standard System of Measuring Building Work			
	Carried Forward		R
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<p style="text-align: center;">Brought Forward</p> <p>42.4.4 On acceptance of the tender the bills of quantities is to be submitted:</p> <p style="padding-left: 40px;"><i>Within seven (7) working days</i></p> <p>42.4.5 JBCC Engineering General Conditions are to be included in the documents:</p> <p style="text-align: right;">No</p> <p>42.4.6 The contract value is to be adjusted using CPAP:</p> <p style="text-align: right;">No</p> <p style="padding-left: 40px;">Base month of indexes:</p> <p>42.4.7 Details of changes made to the provision of JBCC standard documentation:</p> <p style="padding-left: 40px;">Clause 3 : See item 3, page 2 Clause 10 : See item 10, page 3 Clause 18 : See item 18, page 5 Clause 21 : See item 21, page 6 Clause 29 : See item 29, page 8 Clause 31 : See item 31, page 9</p> <p><u>42.5 CONTRACT DETAILS</u></p> <p style="padding-left: 40px;"><i>All post-tender information for this section will be determined once tender is awarded</i></p> <p><u>42.6 DOCUMENTS</u></p> <p style="padding-left: 40px;"><i>All post-tender information for this section will be determined once tender is awarded</i></p> <p><u>42.7 DISPUTE RESOLUTION</u></p> <p style="padding-left: 40px;"><i>All post-tender information for this section will be determined once tender is awarded</i></p> <p><u>42.8 SIGNATURES OF THE CONTRACTING PARTIES</u></p> <p style="padding-left: 40px;"><i>All post-tender information for this section will be determined once tender is awarded</i></p>	R	
Carried Forward	R	
<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>		

	Brought Forward			R

	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definition and interpretation (B1)</u>			
42	Definition and interpretation (B1.1 - B1.6.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Documents (B2)</u>			
43	Checking of documents (B2.1)			
	<i>These bills of quantities:</i>			
	<i>(1) contain pages and annexes as indexed, and;</i>			
	<i>(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances</i>			
	<i>Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 1999 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward			R
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	Brought Forward		R	
	12.1.1 Provisional bills of quantities (B2.2)			
	The quantities are provisional:			
	Yes			
44	Provisional bills of quantities (B2.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
45	Availability of construction documentation (B2.3)			
	<i>The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
46	Interests of agents (B2.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
47	Priced documents (B2.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward		R	
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	Brought Forward			R
48	Tender submission (B2.6)			
	Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
	<u>The site (B3)</u>			
49	Defined works area (B3.1)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
50	Geotechnical investigation (B3.2)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
51	Inspection of the site (B3.3)			
	No claims for extras arising from the contractor having failed to comply with this clause will be entertained			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
52	Existing premises occupied (B3.4)			
	Fixed		Item	
	Carried Forward			R
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	Brought Forward			R
	Value Related	Item		
	Time Related	Item		
53	Previous work - dimensional accuracy (B3.5)			
	<i>Work executed under a previous contract and the extent thereof will be pointed out to the contractor by the principal agent on handing over of the site</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
54	Previous work - defects (B3.6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
55	Services - known (B3.7)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
56	Services - unknown (B3.8)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
57	Protection of trees, etc (B3.9)			
	Fixed	Item		
	Value Related	Item		
	Carried Forward			R
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		Brought Forward			R
		Time Related	Item		
58	Articles of value (B3.10)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
59	Inspection of adjoining properties, etc (B3.11)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		<u>Management of contract (B4)</u>			
60	Management of the works (B4.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
61	Programming for the works (B4.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
62	Progress meetings (B4.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
		Carried Forward			R
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		Brought Forward		R
63	Technical meetings (B4.4)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
64	Labour and plant records (B4.5)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
		<u>Samples and shop drawings (B5)</u>		
65	Samples of materials (B5.1)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
66	Workmanship samples (B5.2)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
67	Shop drawings (B5.3)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
68	Compliance with manufacturer's instructions (B5.4)	Fixed	Item	
		Carried Forward		R
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		Brought Forward		R	
		Value Related	Item		
		Time Related	Item		
		<u>Temporary works and plant (B6)</u>			
69	Deposits and fees (B6.1)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
70	Enclosure of the works (B6.2)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
71	Advertising (B6.3)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
72	Plant, equipment, sheds and offices (B6.4)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
73	Main notice board (B6.5)				
		Fixed	Item		
		Value Related	Item		
		Carried Forward			
				R	
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	Brought Forward			R
	Time Related		Item	
74	Subcontractors notice board (B6.6)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
	<u>Temporary services (B7)</u>			
75	Location (B7.1)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
76	Water (B7.2)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
77	Electricity (B7.3)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
78	Telecommunication equipment (B7.4)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
	Carried Forward			R
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	Brought Forward			R
79	Ablution facilities (B7.5)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
	<u>Prime cost amounts (B8)</u>			
80	Responsibility for prime cost amounts (B8.1)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
	<u>Attendance on nominated and selected subcontractors (B9)</u>			
81	General attendance (B9.1)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
82	Special attendance (B9.2)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
83	Commissioning - Fuel, water and power (B9.3)			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
	Carried Forward			R
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				R
	Brought Forward			
	<u>Financial aspects (B10)</u>			
84	Statutory taxes, duties and levies (B10.1)			
	<i>Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)</i>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
85	Payment of preliminaries (B10.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
86	Adjustment of preliminaries (B10.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
87	Payment certificate cash flow (B10.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>General (B11)</u>			
88	Protection of works (B11.1)			
	Fixed	Item		
	Value Related	Item		
	Carried Forward			
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	Brought Forward			R
	Time Related	Item		
89	Protection/isolation of existing/sectionally occupied work (B11.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
90	Site security (B11.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
91	Notice before covering work (B11.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
92	Disturbance (B11.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
93	Enviromental disturbance (B11.6)			
	Fixed	Item		
	Time Related	Item		
	Value Related	Item		
	Carried Forward			R
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		Brought Forward		R	
94	Works cleaning and clearing (B11.7)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
95	Vermin (B11.8)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
96	Overhand work (B11.9)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
97	Instruction manuals and guarantees (B11.10)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
98	As built information (B11.11)				
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
99	Tenant installations (B11.12)				
		Fixed	Item		
		Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries				

		Brought Forward		R
		Value Related	Item	
		Time Related	Item	
		<u>Schedule of variables (B12)</u>		
100	Pre-tender information (B12.1)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
	12.1.2 Availability of construction documentation (B2.3)			
	Construction documentation is not complete:			
		No		
	12.1.3 Interest of agents (B2.4)			
		No		
	12.1.4 Defined works area (B3.1)			
	<i>The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site</i>			
	12.1.5 Geotechnical investigation (B3.2)			
		N/A		
	12.1.6 Existing premises occupied (B3.4)			
		No		
	12.1.7 Previous work - Dimensional accuracy (B3.5)			
		No		
	12.1.8 Previous work - Defects (B3.6)			
		No		
		Carried Forward		R
	Section No. 1 Preliminaries Bill No. 1 Preliminaries			

	Brought Forward		R
12.1.9 Services - known (B3.7)			
Existing services and points of connection are shown on the site plan and/or will be pointed out on site by the principal agent			
12.1.10 Protection of trees (B3.9)	N/A		
12.1.11 Inspection of adjoining properties (B3.11)	N/A		
12.1.12 Enclosure of the works (B6.2) (See notes to tenders)			
12.1.13 Offices (B6.4.3)			
The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use for meetings to be held on site. The minimum size of the office shall be 8 x 4 x 2,40m high internally with concrete floor, insulated ceiling and roof. The office shall be suitably ventilated, equipped with electric lighting and fitted with table, twelve (12) chairs, one (1) pinning board 2,40 x 1,20m high, one (1) writing board 2,40 x 1,20m high and a set of ten (10) aluminium "Ozafire" drawing hangers complete with stand. The office shall be kept clean and fit for use at all times			
12.1.14 Main notice board (B6.5)			
The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m high. The exact extent of the details, colour scheme and wording will be provided by the principal agent on the day of the site handover. The board shall be securely fixed to and including a suitable supporting structure of timber or tubular posts and braces			
	Carried Forward		R
Section No. 1 Preliminaries Bill No. 1 Preliminaries			

	Brought Forward		R	
	12.1.15 Sub-contractors notice board (B6.6) A notice board is required: No			
	12.1.16 Water (B7.2) Alternative selected: A			
	12.1.17 Electricity (B7.3) Alternative selected: A			
	12.1.18 Telecommunications (B7.4) Alternative selected: A			
	12.1.19 Ablution facilities (B7.5) Alternative selected: A			
	12.1.20 Protection of existing/sectionally occupied works (B11.2) No			
	12.1.22 Protection of the works No			
	12.1.23 Disturbance (B11.5) No			
	12.1.24 Enviromental disturbance (B11.6) No			
101	Post-tender information (B12.2) All post-tender information for this section will be determined once tender is awarded Fixed Value Related Time Related -----	Item Item Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries			

	Brought Forward		R	
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
102	Clause C1 - Proprietary branded products The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorized representative <div style="text-align: right; margin-right: 50px;">Fixed</div> <div style="text-align: right; margin-right: 100px;">Value Related</div> <div style="text-align: right; margin-right: 100px;">Time Related</div>	Item Item Item		
103	Clause C2 - Overtime Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorized and indicated in writing, prior to the execution thereof, that costs for such overtime will to be borne by the employer <div style="text-align: right; margin-right: 50px;">Fixed</div> <div style="text-align: right; margin-right: 100px;">Value Related</div> <div style="text-align: right; margin-right: 100px;">Time Related</div>	Item Item Item		
104	Clause C3 - As-built drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records <div style="text-align: right; margin-right: 50px;">Fixed</div> <div style="text-align: right; margin-right: 100px;">Value Related</div> <div style="text-align: right; margin-right: 100px;">Time Related</div>	Item Item Item		
	Carried Forward		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries			

	Brought Forward			R
105	<p>Clause C4 - Site instructions</p> <p>All site instructions issued on site shall be recorded in writing within seven (7) calendar days in site instruction book (A4 size and triplicate carbon format), which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only</p> <p>Site instructions may be issued by the architect or any of the consultants only. Copies of the site instructions are to be submitted to the architect and quantity surveyor within seven (7) calendar days of such recording in the site instruction book</p>			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
106	<p>Clause C5 - Labour record</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day</p>			
	Fixed		Item	
	Value Related		Item	
	Time Related		Item	
107	<p>Clause C6 - Plant record</p> <p>At the end of each calendar week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works</p>			
	Fixed		Item	
	Carried Forward			R
	<p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>			

	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
108	Clause C7 - Non-cession of monies			
	The contractor shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
109	Clause C8 - Occupational Health and Safety Act			
	In terms of the Occupational Health and Safety Regulations promulgated on 18 July 2003, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried to Final Summary		R	
	Section No. 1 Preliminaries Bill No. 1 Preliminaries			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO 1</u></p> <p><u>ALTERATIONS</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p>TENDERERS ARE TO NOTE THAT ALL WORK IS TO BE EXECUTED IN EXISTING BUILDINGS IN A COMBINATION OF NEW WORK, WORK IN PATCHES AND WORK IN SMALL QUANTITIES.</p> <p><u>Site inspection</u></p> <p>The Tenderer is advised to visit the site, inspect the existing premises and acquaint himself thoroughly with the nature of the work specified.</p> <p><u>Sizes and dimensions</u></p> <p>All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.</p> <p>No allowance for overbreak has been made to any of the adjoining structures, walls, finishes, etc., where removals or pockets occur (the nett opening size, etc., has been made good in later items of this bill where such making good has not been included with the item) and the Contractor must allow in his prices for making good any overbreak that may occur.</p> <p><u>Materials</u></p> <p>Old materials from alterations, except where described to be re-used or handed over, become the property of the contractor.</p> <p>Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.</p>			
	Carried Forward		R	
	Section No. 2 Renovations Bill No. 1 Alterations			

<p style="text-align: center;">Brought Forward</p> <p>None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p> <p>Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Client, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p> <p><u>General</u></p> <p>All new finishes are measured in the relevant trades for new work.</p> <p>Allow for watering the works sufficiently to prevent nuisance from dust.</p> <p>All alteration works described hereunder shall imply the use of an approved screed or plaster repairing compound and preparing existing surfaces to receive new.</p> <p>Provide all necessary propping, etc., required to ensure the safety and stability of the structure during the contract period and remove at completion.</p> <p>Provide all necessary additional barricades, screens, overhead protections, etc., required to ensure the safety of persons, property, etc., and remove at completion.</p> <p>All alteration work is within an existing facility. The contractor shall take utmost care to minimise damage to existing completed works in the vicinity of the alteration works.</p>	R	
<p style="text-align: center;"><u>REMOVAL OF EXISTING WORK</u></p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Renovations Bill No. 1 Alterations</p>	R	

Brought Forward			R
<u>Breaking up and removing unreinforced concrete</u>			
1	100mm Thick surface bed	m3	7
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc from brickwork and building up openings with brick walls including making good face brickwork one side to match existing (New plaster finish and paintwork on other side elsewhere)</u>			
2	Single leaf timber door and steel frame unit, size 900 x 2100 mm high overall from one brick wall	No	22
<u>Taking down and removing roofs, gutters, etc.</u>			
3	Roof sheeting	m2	154
4	Gutters including brackets	m	352
5	Rainwater downpipes including brackets	m	88
6	Fibre-cement fascia boards size overall 250 x 15 mm thick	m	88
7	Barge boards size overall 250 x 15 mm thick	m	352
<u>Taking out and removing joinery fittings fixed to walls and floors (Demolition of brick walls and new floors finishes elsewhere)</u>			
8	Chalkboard, size 1800 mm long and 1200 mm high	No	22
<u>Taking down and removing ceilings, partitions, etc</u>			
9	Nailed-up horizontal or raking fibre-cement board ceilings including timber brandering, coverstrips, cornices, etc	m2	1,452
<u>Taking up and removing floor coverings, wall linings, etc</u>			
10	Vinyl floor covering including preparing screed to receive new floor finish	m2	1,232
11	Vinyl skirting 70mm high	m	814
Carried Forward			R
Section No. 2 Renovations Bill No. 1 Alterations			

Brought Forward			R
<u>Taking out and removing steel security grilles, screens, gates, etc. from brickwork to be demolished</u>			
12	Steel security gate to suit door size 813 x 2032 mm high	No	22
<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
13	Hacking top of existing concrete surface beds and preparing to receive new screeds where raised floors removed	m2	1,382
14	Hacking face of existing face brickwork and preparing to receive new plaster	m2	1,496
<u>Hacking off and removing screeds, granolithic, etc from existing concrete surface beds and prepare surfaces to receive new screeds, granolithic, etc</u>			
15	Screeds from existing floors	m2	1,452
16	Broken glass from existing steel windows including preparing rebate to receive new glazing	m2	44
<u>Hacking off and removing plaster etc from existing concrete and brickwork and prepare surfaces to receive new plaster etc</u>			
17	Internal plaster to walls and columns	m2	1,694
18	External plaster to walls and columns	m2	1,496
<u>OPENINGS THROUGH EXISTING WALLS ETC</u>			
<u>Building up openings</u>			
19	One brick wall	m2	44
<u>SUNDRY BUILDERS WORK</u>			
20	Cut, chase vertically or horizontally in brickwork	m	22
21	Hole through maximum one and a half brick wall	No	22
22	110 mm deep recess for and building in of switchboard	No	1
<u>CLEANING OF EXISTING BUILDINGS</u>			
23	Clean existing buildings to a sufficient state	Item	
Carried Forward to Summary of Section No. 2			R
Section No. 2 Renovations Bill No. 1 Alterations			

Item No		Quantity	Rate		Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p> <p><u>Formwork</u></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Renovations Bill No. 2 Concrete, Formwork and Reinforcement</p>				
			R		

Brought Forward				R
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formworks to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>				
<u>UNREINFORCED CONCRETE</u>				
<u>20MPa/19mm concrete</u>				
1	Surface beds	m3	7	
2	Aprons cast in panels to falls	m3	15	
3	Ramps	m3	3	
4	Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.	m	111	
5	V-shaped channel 600mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with (2:1) cement mortar, laid to falls in panels not exceeding 0.75m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavation and formwork.	m	352	
6	Extra over channel for angles, intersections, ends, etc.	No	88	
Carried Forward				R
<p>Section No. 2 Renovations Bill No. 2 Concrete, Formwork and Reinforcement</p>				

Brought Forward			R
<u>REINFORCED CONCRETE</u>			
<u>25MPa/19mm concrete</u>			
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
7	Surface beds, slabs, etc	m2	70
8	Ramp to falls	m2	78
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
9	Aprons to falls	m2	128
<u>FORMWORK</u>			
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Rough formwork to sides</u>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	111
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Smooth formwork to soffits</u>			
<u>TEST CUBES</u>			
11	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. (Provisional)	Sets	10.0
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces</u>			
<u>Saw cut joints</u>			
12	Saw cut joints in top of concrete (Provisional)	m	15
Carried Forward to Summary of Section No. 2			R
Section No. 2 Renovations Bill No. 2 Concrete, Formwork and Reinforcement			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.3</u></p> <p><u>WATERPROOFING</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Waterproofing</p> <p><u>SHEET OR MEMBRANE WATERPROOFING</u></p> <p><u>Tough spun-bonded continuous polyester membrane 200mm wide secured with an approved adhesive over all side lapse, end lapse, roof screws, etc. in strict accordance with the manufacturers instructions on existing:</u></p>			
1	Galvanised roof sheeting.	m2	517	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Renovations Bill No. 3 Waterproofing			

Item No	Quantity	Rate	Amount
<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.4</u></p> <p><u>ROOF COVERINGS ETC</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched</p> <p>Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use</p> <p><u>Sizes</u></p> <p>All items are measured net unless otherwise described</p> <p><u>Flashings, trimming plates, etc.</u></p> <p>Prices to include for all cutting and waste and relevant fixing material, unless otherwise described</p> <p>All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable</p> <p>All items are unless otherwise described measured net</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p>			
Carried Forward		R	
<p>Section No. 2 Renovations Bill No. 4 Roof Coverings, etc</p>			

	Brought Forward			R
	<u>0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions</u>			
1	Roof covering with pitch not exceeding 50 degrees in single lengths (measured nett).	m2	346	
2	Ridge capping 550mm girth	m	276	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Renovations Bill No. 4 Roof Coverings, etc				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.5</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>PREFABRICATED ROOF TRUSSES</u></p>			
	Carried Forward		R	
	<p>Section No. 2 Renovations Bill No. 5 Capentry and Joinery</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Pre-fabricated metal connected timber roof trusses</u></p> <p>All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction</p> <p><u>Timber</u></p> <p>Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460</p> <p><u>Bolts</u></p> <p>Bolts shall be in accordance with BS 4190 or SABS 135</p> <p><u>Shear plates, tooth connectors and split rings</u></p> <p>Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"</p> <p><u>Washers</u></p> <p>Square or round washers of the following dimensions shall be used with all bolts:</p> <ol style="list-style-type: none"> 1 Bolts up to 8mm diameter: Washers shall be minimum 25mm wide of minimum 2,50mm thickness 2 Bolts up to 12mm diameter: Washers shall be minimum 36mm wide of minimum 4,00mm thickness 3 Bolts up to 20mm diameter: Washers shall be minimum 60mm wide of minimum 5,00mm thickness <p><u>Metal connector plates</u></p> <p>Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel</p>	R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Renovations Bill No. 5 Capentry and Joinery</p>	R	

<p style="text-align: center;">Brought Forward</p> <p>The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m² commercial class hot dipped galvanising as per SABS 934 before stamping</p> <p>All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report</p> <p><u>Truss construction</u></p> <p>Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers</p> <p>Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint</p> <p><u>Truss design</u></p> <p>All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")</p> <p><u>Truss spacing</u></p> <p>The truss centres shall be less than or equal to that as described in this bill for each respective truss</p> <p><u>Truss pitch</u></p> <p>The truss pitch shall be as described in this bill for each respective truss type</p> <p><u>Truss loading</u></p> <p>Trusses shall be designed for a live load of 0,50kN/m² and dead load as specified under the sub-heading "Specific load specifications for roof trusses"</p>	R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Renovations Bill No. 5 Carpentry and Joinery</p>	R	

<p style="text-align: center;">Brought Forward</p> <p><u>Shop drawings, design and erection guarantee certificates</u></p> <p>It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified</p> <p><u>Dimensions</u></p> <p>All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences</p> <p><u>Erection</u></p> <p>All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer</p> <p><u>Design system</u></p> <p>The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system</p> <p>However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent</p> <p><u>Specific specifications for roof trusses</u></p> <p>Unless otherwise described, the following specifications will apply:</p> <ol style="list-style-type: none"> 1 All trusses to be with a 10° pitch 2 The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres <p><u>ROOFS</u></p>	R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Renovations Bill No. 5 Capentry and Joinery</p>	R	

Brought Forward							
<u>The following in plate nailed timber roof truss construction</u>							R
<u>The following is applicable in respect of roof trusses</u>							
The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes							
Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)							
<u>Allow for the preparation and submission of the following documents in respect of all buildings</u>							
1	Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication		Item				
2	Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.		Item				
3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent		Item				
<u>Sawn softwood</u>							
4	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for classroom approximately 152m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No		2			
<u>Sawn softwood grade 4</u>							
5	38 x 114mm Wall plates	m		300			
Carried Forward							R
Section No. 2 Renovations Bill No. 5 Capentry and Joinery							

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.6</u></p> <p><u>CEILING , ETC.</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions:</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><u>CEILING CONSTRUCTION, CORNICES, ETC.</u></p> <p><u>Insulation</u></p>			
1	<p>100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling.</p> <p><u>Sawn softwood</u></p> <p><u>"Rhino" gypsum plasterboard cornices</u></p>	m2	1,452	
2	<p>75mm Coved cornices</p>	m	836	
	<p><u>NAILED UP AND SCREWED UP CEILINGS</u></p> <p><u>6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints</u></p>			
3	<p>Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.</p>	m2	1,452	
	Carried Forward to Summary of Section No. 2			R
	<p>Section No. 2 Renovations Bill No. 6 Ceilings, Partitions and Access Flooring</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.7</u></p> <p><u>IRONMONGERY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs</p> <p><u>Finishes to ironmongery</u></p> <p>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</p> <p><u>CATCHES,CABIN HOOKS, ETC</u></p> <p><u>"Solid"</u></p>			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	22	
	<p><u>LOCKS</u></p> <p><u>"Solid"</u></p>			
2	"Code 630" padlock	No	22	
3	"Code 460/313" Blesbok four lever lockset	No	22	
	Carried Forward			R
	Section No. 2 Renovations Bill No. 7 Ironmongery			

		Brought Forward		R
<u>SUNDRIES</u>				
<u>"Dorma"</u>				
4	Dorma "Code 255" door stop plugged	No	22	
<u>STEEL CUPBOARDS</u>				
<u>Aproved steel lockers with standard baked enamel finish</u>				
5	G10 Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork	No	22	
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
<u>"Vitrex"</u>				
6	Vitrex system White folding type writing board, with wall mounted centre board 4000 x 1220mm high with chalk rail and two swing leaves each 1200 x 1220mm high plugged	No	22	
7	Pinning boards 4000 x 1200mm high fixed to brickwork	No	22	
<u>LETTERS, NAMEPLATES, ETC</u>				
<u>"Union"</u>				
8	150 x 150mm Stainless steel plate engraved with "Fire Extinguisher" sign (St/Steel)	No	22	
9	150 x 150mm Stainless steel plate engraved with a "Arrow sign" sign (St/Steel)	No	44	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Renovations Bill No. 7 Ironmongery				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.8</u></p> <p><u>METALWORK</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>Descriptions</u></p> <p>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</p> <p><u>Drawings</u></p> <p>Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc</p> <p><u>SUNDRY METALWORK</u></p> <p><u>The following in identical steel support columns</u></p> <p><u>WELDED SCREENS, GATES, ETC</u></p> <p><u>Gates to external doors</u></p>			
1	Gate and frame 900 x 2100mm high complete (G1)	No 22		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 Renovations Bill No. 8 Metalwork			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.9</u></p> <p><u>PLASTERING</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>GRANOLITHIC</u></p> <p><u>Untinted granolithic on concrete</u></p> <p><u>SCREEDS</u></p> <p><u>Screeds on concrete</u></p>			
1	30mm Thick on floors	m2	1,452	
	<p><u>INTERNAL PLASTER</u></p> <p><u>Cement plaster on brickwork</u></p>			
2	On walls	m2	1,694	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Renovations Bill No. 9 Plastering			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.10</u></p> <p><u>TILING</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p><u>FLOOR TILING</u></p> <p><u>350 x 350 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound</u></p>			
1	On floors and landings	m2	1,232	
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	660	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Renovations Bill No. 10 Tiling			

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.11</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			

	<u>RAINWATER DISPOSAL</u>			
	<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 125mm Eaves gutters with beaded front edge	m	352	
2	Extra over eaves gutter for stopped end	No	44	
3	100mm Diameter rainwater pipes	m	88	
4	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	44	
5	Extra over rainwater pipe for shoe	No	44	
	<u>FIRE APPLIANCES ETC</u>			
	<u>'Chubb'</u>			
6	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	22	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Renovations Bill No. 11 Plumbing and Drainage			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.12</u></p> <p><u>GLAZING</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>4mm Clear float glass</u></p>			
1	Panes exceeding 0,5m2 and not exceeding 2m2	m2	66	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Renovations Bill No. 12 Glazing			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.2</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.13</u></p> <p><u>PAINTWORK</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON FLOATED PLASTER</u></p> <p><u>Plascon Polvin Super Acrylic to interior new cement plaster (NW 205).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u></p>			
1	On internal walls	m2	1,694	
	<p><u>ON SMOOTH CONCRETE</u></p> <p><u>Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer Acrylic paint</u></p> <p><u>ON FIBRE-CEMENT</u></p> <p><u>One coat primer, one coat universal undercoat and two coats super acrylic PVA paint</u></p>			
2	On ceilings and cornices	m2	1,446	
	Carried Forward			R
	<p>Section No. 2 Renovations Bill No. 13 Paintwork</p>			

	Brought Forward			R
3	<p>On fascias and barge boards</p> <p><u>Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u></p>	m2	132	
	<p><u>Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.</u></p> <p><u>ON METAL</u></p> <p><u>Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>			
4	<p>On windows with burglar bars</p> <p><u>ON WOOD</u></p>	m2	285	
	Carried Forward			R
	<p>Section No. 2 Renovations Bill No. 13 Paintwork</p>			

	Brought Forward			R
	<p><u>Plascon Velvaglo Satin to interior new wood (NW 571).Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (LS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p>			
5	<p>On doors</p> <p><u>Three coats matt varnish</u></p>	m2	81	
6	<p>On doors</p>	m2	81	
	Carried Forward to Summary of Section No. 2			R
	<p>Section No. 2 Renovations Bill No. 13 Paintwork</p>			

		Page No	Amount
	Section No. 2		
	Renovations		
	<u>SECTION SUMMARY - Renovations</u>		
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	Carried to Final Summary		R
	Section No. 2		
	Renovations		

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.1</u></p> <p><u>FOUNDATIONS</u></p> <p><u>EARTHWORKS</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"</p> <p><u>Excavation for working space in rock</u></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>			
	Carried Forward		R	
	<p>Section No. 3 Admin Block Bill No. 1 Foundations</p>			

Brought Forward				R
<u>Filling</u>				
Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
<u>Soil poisoning</u>				
Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent				
<u>SITE CLEARANCE, ETC.</u>				
<u>Site clearance</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	562	
<u>REMOVAL TREES, ETC.</u>				
<u>Taking out and removing, grubbing up roots and filling holes.</u>				
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	4	
<u>EXCAVATION, FILLING, ETC</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
3	Trenches	m3	233	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
4	Soft rock	m3	54	
5	Hard rock	m3	50	
Carried Forward				R
Section No. 3 Admin Block Bill No. 1 Foundations				

Brought Forward			R
	<u>Extra over all excavations for carting away</u>		
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	233
	<u>Risk of collapse of excavations</u>		
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	361
	<u>Keeping excavations free of water</u>		
8	Keeping excavations free of all water other than subterranean water		Item
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>		
9	Under floors, steps, paving, etc	m3	97
	<u>Approved G6 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>		
10	Backfilling to trenches, holes, etc	m3	136
11	Under floors, steps, paving etc.	m3	102
	<u>Compaction of surfaces</u>		
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	354
	<u>Prescribed density tests on filling</u>		
13	"Modified AASHTO Density" test	No	9
	<u>SOIL POISONING</u>		
	Carried Forward		R
	Section No. 3 Admin Block Bill No. 1 Foundations		

Brought Forward			R
	<u>Soil insecticide</u>		
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	286
15	To bottoms and sides of trenches etc	m2	512
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>		
16	Strip footings	m3	26
	<u>Fabric reinforcement</u>		
17	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	286
<u>TEST CUBES</u>			
18	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	5.0
<u>BRICKWORK</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>		
19	Half brick walls	m2	92
20	One brick walls	m2	171
<u>BRICKWORK SUNDRIES</u>			
	<u>Joint forming material in movement joints:</u>		
	<u>Brickwork reinforcement</u>		
21	75mm wide reinforcement built in horizontally.	m	239
Carried Forward			R
Section No. 3 Admin Block Bill No. 1 Foundations			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p>			
	Carried Forward		R	
	<p>Section No. 3 Admin Block Bill No. 2 Concrete, Formwork and Reinforcement</p>			

Brought Forward				R
<u>Formwork</u>				
Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use				
The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself				
Formworks to soffits of solid slabs etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described				
Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"				
<u>UNREINFORCED CONCRETE</u>				
<u>20MPa/19mm concrete</u>				
1	Surface beds	m3	2	
2	Surface beds cast in panels on waterproofing.	m3	43	
3	Aprons cast in panels to falls	m3	12	
Carried Forward				R
Section No. 3 Admin Block Bill No. 2 Concrete, Formwork and Reinforcement				

		Brought Forward		R
4	Ramps	m3	1	
5	Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.	m	102	
		<u>REINFORCED CONCRETE</u>		
		<u>25MPa/19mm concrete</u>		
6	Slabs including beams and inverted beams	m3	6	
		<u>CONCRETE SUNDRIES</u>		
		<u>Finishing top surfaces of concrete smooth with a steel trowel</u>		
7	Surface beds, slabs, etc	m2	287	
8	Ramp to falls	m2	6	
		<u>Finishing top surfaces of concrete smooth with a wood float</u>		
9	Surface beds, slabs, etc	m2	287	
10	Aprons to falls	m2	122	
		<u>FORMWORK</u>		
		<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>		
		<u>Rough formwork to sides</u>		
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	89	
		<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>		
		<u>II)</u>		
		Carried Forward		R
Section No. 3 Admin Block Bill No. 2 Concrete, Formwork and Reinforcement				

Brought Forward			R
	<u>Smooth formwork to soffits</u>		
12	Slabs	m2	6
	<u>TEST CUBES</u>		
13	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. (Provisional)	Sets	10.0
	<u>MOVEMENT JOINTS ETC</u>		
	<u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces</u>		
	<u>Saw cut joints</u>		
14	Saw cut joints in top of concrete (Provisional)	m	5
	<u>DIVIDING STRIPS, ETC.</u>		
	<u>REINFORCEMENT</u>		
	<u>High tensile steel reinforcement to structural concrete work</u>		
15	12mm Diameter	t	1.20
16	10mm Diameter bars	t	1.80
	<u>Mild steel reinforcement to structural concrete work</u>		
17	8mm Diameter bars	t	0.49
	Carried Forward to Summary of Section No. 3		R
	Section No. 3 Admin Block Bill No. 2 Concrete, Formwork and Reinforcement		

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.3</u></p> <p><u>MASONRY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Linings to concrete</u></p> <p>Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>Reinforced brick lintels</u></p> <p>Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous</p>			
	Carried Forward		R	
	<p>Section No. 3 Admin Block Bill No. 3 Masonry</p>			

	Brought Forward			R
	<u>Face bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	Piers	m3	3	
2	L-shaped piers	m3	0.5	
3	Half brick walls	m2	265	
4	Half brick walls in beamfilling.	m2	27	
5	One brick walls	m2	409	
	<u>Joint forming material in movement joints:</u>			
	<u>Brickwork reinforcement</u>			
6	75mm Wide reinforcement built in horizontally	m	853	
7	150mm Wide reinforcement built in horizontally	m	1,282	
	<u>Turning pieces</u>			
8	230mm Wide turning piece to lintels etc	m	69	
	<u>"Allied Concrete" prestressed fabricated lintels</u>			
9	110 x 75mm Lintels in lengths not exceeding 3m (Provisional)	m	15	
	Carried Forward			R
	Section No. 3 Admin Block Bill No. 3 Masonry			

Brought Forward		R
	<u>Galvanised wire ties etc</u>	
10	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork (Provisional)	No 56
<u>FACE BRICKWORK</u>		
	<u>Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints</u>	
11	Extra over brickwork for face brickwork	m2 355
12	Extra over for facing in piers, including bonding and pointed with recesses joints on all exposed faces	m2 6
13	Extra over for facings in beamfilling for face brickwork	m2 75
	<u>Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>	
14	Extra over brickwork for brick-on-edge header course lintel	m 28
	<u>Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces</u>	
15	220mm Wide sill set sloping and slightly protecting outside	m 19
16	Coping on top of one brick wall	m 8
<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>		
Carried Forward		R
Section No. 3 Admin Block Bill No. 3 Masonry		

	Brought Forward					
17	<p><u>Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.</u></p> <p>15mm x 150mm Wide sills set flat and slightly projecting</p>	m	45	R		
	Carried Forward to Summary of Section No. 3			R		
	Section No. 3 Admin Block Bill No. 3 Masonry					

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.4</u></p> <p><u>WATERPROOFING</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Waterproofing</p> <p><u>DAMP-PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course</u></p>			
1	In walls	m2	60	
	<p><u>One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></p>			
2	Under surface beds	m2	287	
	<p><u>JOINT SEALANTS ETC</u></p> <p><u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u></p>			
3	6 x 10mm In expansion joints including raking out of expansion joint filler as necessary (Provisional)	m	233	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Admin Block Bill No. 4 Waterproofing			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.5</u></p> <p><u>ROOF COVERINGS ETC</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched</p> <p>Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use</p> <p><u>Sizes</u></p> <p>All items are measured net unless otherwise described</p> <p><u>Flashings, trimming plates, etc.</u></p> <p>Prices to include for all cutting and waste and relevant fixing material, unless otherwise described</p> <p>All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable</p> <p>All items are unless otherwise described measured net</p> <p style="text-align: right;">Carried Forward</p>			
	<p>Section No. 3 Admin Block Bill No. 5 Roof Coverings, etc</p>		R	

Brought Forward					
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>					
<u>0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions</u>					
1	Roof covering with pitch not exceeding 50 degrees	m2	321		
2	Ridge capping 550mm girth	m	38		
3	Hip capping 550mm girth	m	42		
4	Gable trim 550mm girth	m	24		
<u>STEEL LOUVRES</u>					
<u>"NTY Steelworks" or similar approved</u>					
5	Triangular steel louvre size 3000x 500mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	2		
Carried Forward to Summary of Section No. 3					
Section No. 3 Admin Block Bill No. 5 Roof Coverings, etc					

Item No		Quantity	Rate		Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board:</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><u>Joinery:</u></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><u>Fixing</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p>				
	Carried Forward			R	
	<p>Section No. 3 Admin Block Bill No. 6 Capentry and Joinery</p>				

Brought Forward

R

Decorative laminate finish:

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

PREFABRICATED ROOF TRUSSES

Pre-fabricated metal connected timber roof trusses

All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction

Timber

Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460

Bolts

Bolts shall be in accordance with BS 4190 or SABS 135

Shear plates, tooth connectors and split rings

Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"

Washers

Square or round washers of the following dimensions shall be used with all bolts:

- 1 Bolts up to 8mm diameter:
Washers shall be minimum 25mm wide of minimum 2,50mm thickness

Carried Forward

R

Section No. 3
Admin Block
Bill No. 6
Capentry and Joinery

Brought Forward	R
<p>2 Bolts up to 12mm diameter: Washers shall be minimum 36mm wide of minimum 4,00mm thickness</p> <p>3 Bolts up to 20mm diameter: Washers shall be minimum 60mm wide of minimum 5,00mm thickness</p> <p><u>Metal connector plates</u></p> <p>Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel</p> <p>The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m² commercial class hot dipped galvanising as per SABS 934 before stamping</p> <p>All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report</p> <p><u>Truss construction</u></p> <p>Trusses shall be constructed in jigs specially designed to ensure the correct profile, overhangs and cambers</p> <p>Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint</p> <p><u>Truss design</u></p> <p>All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")</p>	
Carried Forward	R
<p>Section No. 3 Admin Block Bill No. 6 Carpentry and Joinery</p>	

<p style="text-align: center;">Brought Forward</p> <p><u>Truss spacing</u></p> <p>The truss centres shall be less than or equal to that as described in this bill for each respective truss</p> <p><u>Truss pitch</u></p> <p>The truss pitch shall be as described in this bill for each respective truss type</p> <p><u>Truss loading</u></p> <p>Trusses shall be designed for a live load of 0,50kN/m² and dead load as specified under the sub-heading "Specific load specifications for roof trusses"</p> <p><u>Shop drawings, design and erection guarantee certificates</u></p> <p>It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified</p> <p><u>Dimensions</u></p> <p>All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences</p> <p><u>Erection</u></p> <p>All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer</p>		R	
Carried Forward		R	
<p>Section No. 3 Admin Block Bill No. 6 Capentry and Joinery</p>			

Brought Forward

R

Design system

The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system

However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent

Specific specifications for roof trusses

Unless otherwise described, the following specifications will apply:

- 1 All trusses to be with a 10° pitch
- 2 The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres

ROOFS

The following in plate nailed timber roof truss construction

The following is applicable in respect of roof trusses

The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes

Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)

Carried Forward

R

Section No. 3
Admin Block
Bill No. 6
Capentry and Joinery

Brought Forward							
<u>Allow for the preparation and submission of the following documents in respect of all buildings</u>							R
1	Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication		Item				
2	Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of timber components, details, etc.		Item				
3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent		Item				
<u>Sawn softwood</u>							
4	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for adminstration block approximately 287m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No		1			
5	38 x 114mm Wall plates	m		88			
<u>Sundries</u>							
6	Two coats creosote on sawn timbers	m2		24			
<u>EAVES, VERGES, ETC</u>							
<u>"Everite FC77" pressed fibre-cement</u>							
7	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m		86			
<u>SKIRTINGS</u>							
Carried Forward							R
Section No. 3 Admin Block Bill No. 6 Capentry and Joinery							

	Brought Forward				
	<u>Wrought meranti</u>				R
8	19 x 76mm Skirting including 19mm quadrant bead nailed	m	325		
	<u>DOORS, ETC</u>				
	<u>Wrought meranti doors hung to steel frames</u>				
9	44mm Framed and ledged batten door 813 x 2032mm high of 44 x 100mm top rail and stiles, 22 x 100mm middle and bottom rails, covered on both sides with 6mm plywood with veneer (D3)	No	2		
	<u>Solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame</u>				
10	40mm Door 813 x 2032mm high	No	10		
	<u>FITTINGS</u>				
	<u>The following in four wrot Meranti slatted benches in waiting area:</u>				
11	32 x 69 mm Twice chamfered slat screwed from underside to steel supports with and including steel brackets.	m	44		
	Carried Forward to Summary of Section No. 3				R
	Section No. 3 Admin Block Bill No. 6 Capentry and Joinery				

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.7</u>			
	<u>CEILING , ETC.</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			

	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions:</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	<u>CEILING CONSTRUCTION, CORNICES, ETC.</u>			
	<u>Insulation</u>			
1	100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling.	m2	287	
	<u>Sawn softwood</u>			
2	38 x 114mm Ceiling joists (Provisional)	m	85	
	<u>"Rhino" gypsum plasterboard cornices</u>			
3	75mm Coved cornices	m	325	
	Carried Forward			R
	Section No. 3 Admin Block Bill No. 7 Ceilings, Partitions and Access Flooring			

Brought Forward

NAILED UP AND SCREWED UP CEILINGS

6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints

4	Ceilings including 38 x 38mm brander at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.	m2	287	
5	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	8	

R

Carried Forward to Summary of Section No. 3

Section No. 3
Admin Block
Bill No. 7
Ceilings, Partitions and Access Flooring

R

Item No		Quantity	Rate	Amount																					
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.8</u></p> <p><u>IRONMONGERY</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs</p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BS Satin bronze lacquered</td> <td style="width: 33%;">CH</td> <td style="width: 33%;"></td> </tr> <tr> <td>Chromium plated</td> <td>SC Satin chromium plated</td> <td></td> </tr> <tr> <td>SE Silver enamelled</td> <td>GE Grey enamelled</td> <td></td> </tr> <tr> <td>AS Anodised silver</td> <td>AB Anodised bronze</td> <td></td> </tr> <tr> <td>AG Anodised gold</td> <td>ABL Anodised black</td> <td>PB</td> </tr> <tr> <td>Polished brass</td> <td>PL Polished and lacquered</td> <td></td> </tr> <tr> <td>PT Epoxy coated</td> <td>SD Sanded</td> <td></td> </tr> </table> <p><u>CATCHES,CABIN HOOKS, ETC</u></p> <p><u>"Solid"</u></p> <p><u>LOCKS</u></p> <p><u>"Solid"</u></p>	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				
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																								
1	"Code 630" padlock	No	2																						
	Carried Forward			R																					
	Section No. 3 Admin Block Bill No. 8 Ironmongery																								

Brought Forward			R
2	"Code 460/313" Blesbok four lever lockset	No	12
<u>DOOR CLOSERS AND FLOOR SPRINGS</u>			
<u>"Dorma"</u>			
3	Dorma TS91/EN3 slide channel door closer - Non hold open (Silver)	No	4
4	Dorma DPH301C 150 x 19mm stainless steel "D" shaped straight bolt-through pull handle (St/Steel)	No	4
<u>SUNDRIES</u>			
<u>"Solid"</u>			
5	Dorma "Code 255" door stop plugged	No	16
<u>STEEL CUPBOARDS</u>			
<u>Aproved steel lockers with standard baked enamel finish</u>			
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>			
<u>"Vitrex"</u>			
6	Pinning boards 2400 x 1200mm high fixed to brickwork	No	2
7	Pinning boards 3000 x 1200mm high fixed to brickwork	No	4
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>"Union"</u>			
8	150 x 150mm Stainless steel plate engraved with "female" sign (St/Steel)	No	1
9	150 x 150mm Stainless steel plate engraved with "male" sign (St/Steel)	No	1
Carried Forward			R
Section No. 3 Admin Block Bill No. 8 Ironmongery			

Brought Forward			R
10	150 x 150mm Stainless steel plate engraved with electrical symbol (St/Steel)	No	2
11	150 x 150mm Stainless steel plate engraved with "running man RH" sign (St/Steel)	No	4
12	150 x 150mm Stainless steel plate engraved with a "Fire Hose Reel" sign (St/Steel)	No	1
13	150 x 150mm Stainless steel plate engraved with "Fire Extinguisher" sign (St/Steel)	No	6
14	150 x 150mm Stainless steel plate engraved with a "Arrow sign" sign (St/Steel)	No	11
15	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "KITCHEN"	No	1
16	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STAFF ROOM"	No	1
17	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STATIONERY STORE"	No	1
18	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "RECEPTION"	No	1
19	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "SICK ROOM"	No	1
20	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINCIPAL"	No	1
21	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINT ROOM"	No	1
22	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "VICE PRINCIPAL"	No	1
23	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "GENERAL OFFICE"	No	1
Carried Forward			R
Section No. 3 Admin Block Bill No. 8 Ironmongery			

Brought Forward				R
24	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "WAITING AREA"	No	1	
25	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STRONG ROOM"	No	1	
<u>BATHROOM FITTINGS</u>				
<u>"Buchel"</u>				
26	19mm Diameter chromium plated towel rail 600mm long including end brackets	No	2	
<u>"Kimberly-Clark"</u>				
27	Kimberly-Clark® Professional MR2 Satin finish Stainless Steel toilet tissue dispenser (code: SA426130), overall size 130 x 135 x 256mm high, installed by a Kimberly Clark® installation team.	No	2	
28	Kimberly-Clark® Professional Reflex® MK2 Stainless Steel hand towel dispenser (code: SA426125), overall size 310 x 280 x 400mm high, installed by a Kimberly Clark® installation team.	No	2	
29	Kimberly-Clark® Professional Foam soap dispenser colour stainless steel, overall size 134 x 120 x 250mm high, installed by a Kimberly Clark® installation team.	No	2	
<u>"Nampak"</u>				
30	Vandal resistant 2 roll holder complete fitments or similar approved	No	2	
<u>VERTICAL BLINDS</u>				
<u>"Luxaflex"</u>				
31	Vertical blind system, not exceeding 2000mm high, consisting of 70mm wide vanes, powder coated aluminium headrail 44.8 x 26.5mm high, fitted with wheeled runners, connected by grey acetal spacer links with and including all necessary components to manufacturer's specifications	m	56	
Carried Forward to Summary of Section No. 3				R
Section No. 3 Admin Block Bill No. 8 Ironmongery				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.9</u></p> <p><u>METALWORK</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>Descriptions</u></p> <p>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</p> <p><u>Drawings</u></p> <p>Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc</p> <p><u>PRESSED STEEL DOOR FRAMES</u></p> <p><u>1,2mm Double rebated frames suitable for one brick walls</u></p>			
1	<p>Frame for door 813 x 2032mm high and fixed fanlight 305mm high</p>	No	10	
	<p><u>STEEL WINDOWS, DOORS, ETC</u></p>			
	Carried Forward			R
	<p>Section No. 3 Admin Block Bill No. 9 Metalwork</p>			

Brought Forward			R
<u>"Nty" steel residential windows with burglar bars to all sashes</u>			
2	Window type SWE 418, size 1511 x 1264mm high	No	14
3	Window type SWE 37S, size 1022 x 949mm high	No	3
4	Window type SWE 31S, size 533 x 949mm high	No	5
5	Window type SWE 47, size 2000 x 1264mm high	No	1
<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u>			
<u>"Gunnebo SA"strongroom doors etc. suitable for 230mm walls fixed to brickwork or concrete</u>			
6	Mutual Austen Safes DS50/2/HD SABS Category 2 (Heavy Duty) left hand strongroom with 2 x 7-lever security keylock, overall size 850 x 1860mm high with and including powder coated finish	No	1
7	Double ended strongroom ventilator	No	1
<u>STEEL ROLLER SHUTTERS ETC</u>			
<u>"Wispeco" roller shutters fixed to brickwork or concrete</u>			
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>			
<u>Doors, windows, etc to be manufactured by an approved firm of specialists, to be of the best quality and design truly squared and unless otherwise described, prepared to receive galzing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to be submitted to the Architect for approval before the work is put in hand.</u>			
<u>The frames generally are to be suitable for brickwork, blockwork, or concrete reveals. They are to be fitted with fixing lugs of 2,8mm aluminium</u>			
Carried Forward			R
Section No. 3 Admin Block Bill No. 9 Metalwork			

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13mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides top and bottom. Where concrete reveals, etc the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.

Immediately after the windows, doors, etc, have been delivered on to site, they are to be thoroughly overhauled, and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, blockwork, concrete, steel, etc, the framing is to be treated with bituminuos paint in an approved manner. The windows, doors, etc, are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distortion whilst the brickwork and lintols, are being built.

On completion of all other work the windows, doors, are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order.

General. All rates for doors, windows, shopfronts etc , should include for all galzing as specified.

Glazing beads: All door, etc to be fitted with galzing beads, unless otherwise described, mitred at angles and screwed on.

Glass and Glazing: All functional glass must be delivered to site cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibility.

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Metalwork

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AAAMSA guide

All windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminium and Glass Products (Third Edition) as published by the Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA)

The following specifications are to be complied with:

- Aluminium alloy extrusion: BS 1474
- Aluminium alloy sheets: SANS 903
- Anodising: SANS 999
- Neoprene performed seals and gaskets: SATM C542
- Powder coat finishing: SANS 1274

Finish

The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with SABS 999 and 1407

Glass

Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass

Design indemnity

The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed

Drawings

Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc

Carried Forward

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Section No. 3
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Metalwork

	Brought Forward				R
	<p><u>Pricing.</u></p> <p>All window prices should include alluminium louvres as shown</p> <p><u>General</u></p> <p>Workshop drawings to be approved by the architect before manufacture</p> <p><u>Ironmongery</u></p> <p>Prices for windows shall allow for two standard stainless steel side/top hung friction hinges and one bronze anodised aluminium handle per opening sash. Prices for doors shall allow for two pairs of standard flush bolts to double doors and one-and-a-half pairs of standard hinges per door leaf.</p> <p><u>Natural annodised series 340 aluminium windows, doors, etc including sub-frames, fixing, silicone sealant all round, ironmongery and glazed with 6,38mm clear laminated safetyglass unless otherwise stated</u></p>				
8	Purpose made aluminium viewing panel size 2000 x 1110mm high in two equal fixed panes	No	1		
9	Purpose made sliding viewing panel size 2000 x 1110mm high in three equal leafs (W6 & W5)	No	2		
10	Purpose made aluminium double door in two equal leafs size 1575 x 2100mm high overall (D1)	No	2		
	Carried Forward to Summary of Section No. 3				R
	Section No. 3 Admin Block Bill No. 9 Metalwork				

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.10</u>			
	<u>PLASTERING</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			

	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete</u>			
1	25mm Thick on floors and landings	m2	68	
	<u>SCREEDS</u>			
	<u>Screeads on concrete</u>			
2	30mm Thick on floors	m2	287	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
3	On walls	m2	821	
4	On narrow widths	m2	35	
	<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
	<u>Brass</u>			
5	3 x 32mm Flat section brass dividing strips between different floor finishes	m	13	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Admin Block Bill No. 10 Plastering			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.11</u></p> <p><u>TILING</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding</p> <p><u>WALL TILING</u></p> <p><u>Glazed ceramic wall tiles (PC R110,00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere)</u></p>			
1	On walls	m2	122	
2	On narrow widths	m2	5	
	<p><u>FLOOR TILING</u></p> <p><u>350 x 350 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound</u></p>			
3	On floors and landings	m2	287	
	Carried Forward			R
	Section No. 3 Admin Block Bill No. 11 Tiling			

	Brought Forward				
4	Skirting formed of ceramic tile cut to 300 x 75mm high	m	26	R	
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 Admin Block Bill No. 11 Tiling				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO.3</u></p> <p><u>BUILDING WORK</u></p> <p><u>BILL NO.12</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p>For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.</p> <p style="text-align: center;">-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>"Polycop" polypropylene pipes:</u></p> <p>Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated</p> <p>Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>"Polylink" polypropylene pipes:</u></p> <p>Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints</p> <p>Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured</p> <p style="text-align: right;">Carried Forward</p>			
	<p>Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage</p>		R	

Brought Forward	R
<p>Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers</p> <p>Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers</p> <p>Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same</p> <p>All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions</p> <p>All pipe diameters are nominal external</p> <p><u>Concrete pipes:</u></p> <p>Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings</p> <p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pipes and fittings:</u></p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p>	
Carried Forward	R
<p>Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage</p>	

Brought Forward

R

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

Lead pipes and fittings

All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel

Carried Forward

R

Section No. 3
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Plumbing and Drainage

Brought Forward

R

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Septic tanks

Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Carried Forward

R

Section No. 3
 Admin Block
 Bill No. 12
 Plumbing and Drainage

<p style="text-align: center;">Brought Forward</p> <p><u>Laying, backfilling, bedding, etc. of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><u>Flush pans</u></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p> <p><u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Waste unions</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>Steel sectional water tanks</u></p> <p>Tanks shall comply with SABS CKS 114</p>	R	
Carried Forward	R	
<p>Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage</p>		

Brought Forward			R
<u>"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.</u>			
Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described			
Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc			
<u>RAINWATER DISPOSAL</u>			
<u>0,6mm Galvanised sheet iron with "Chromadek" finish on one side</u>			
1	100 x 125mm Eaves gutters with beaded front edge	m	66
2	Extra over eaves gutter for angle	No	8
3	Extra over eaves gutter for stopped end	No	2
4	Extra over eaves gutter for outlet for 100mm diameter pipe	No	8
5	100mm Diameter rainwater pipes	m	25
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	8
7	Extra over rainwater pipe for shoe	No	8
<u>STORMWATER CHANNELS</u>			
<u>15 MPa/20 mm concrete</u>			
<u>SOIL DRAINAGE</u>			
<u>uPVC pipes</u>			
8	110mm Pipes vertically or ramped to cleaning eye etc (no excavation)	m	6
Carried Forward			R
Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage			

Brought Forward			R
9	110mm Pipes laid in and including trenches not exceeding 1m deep	m	150
<u>Extra over uPVC pipes for fittings</u>			
10	110mm Access bend	No	4
11	110mm Access junction	No	3
12	110mm Bend	No	3
13	110mm Junction	No	3
14	110mm uPVC rodding eye cover in end of pipe	No	2
<u>Pre-cast concrete gulleys</u>			
15	110mm Dished gulley not exceeding 1m deep with 150mm steel grate and standard concrete gulley surround	No	1
<u>Concrete pipes:</u>			
<u>Inspection chambers (covers elsewhere)</u>			
16	Inspection chamber 450 x 600mm x exceeding 750mm and not exceeding 1000mm deep internally	No	1
<u>Covers, etc</u>			
17	450 x 600mm x 74kg Type 8A cast iron double seal manhole cover and frame	No	1
<u>Sundries</u>			
18	100mm Cast iron "ABC" cleaning eye	No	3
19	Precast concrete inspection eye marker slab set in ground	No	3
20	110mm Rodding eye	No	3
21	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	2
Carried Forward			R
Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage			

		Brought Forward		R
22	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	2	
		<u>SANITARY FITTINGS</u>		
		<u>"Franke" stainless steel</u>		
		<u>"VANSTONE" or similar approved</u>		
		<u>"Vaal"</u>		
23	Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (Code : 7023) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts (product code 8448Z0).	No	3	
24	Vaal Sanitaryware Hibiscus White vitreous china close coupled washdown suite comprising 90° outlet open rim pan (product code 772600) and matching 6/3 litre front dual flush cistern (product code 710539) including "PARKER AVANT" toilet seat	No	2	
		<u>WASTE UNIONS ETC</u>		
		<u>"Cobra Watertech"</u>		
25	38mm "Cobra 316" unslotted waste and plug with chain	No	3	
		<u>TRAPS ETC</u>		
		<u>"Marley"</u>		
26	40mm Flexi butyl rubber trap with reseal "P" trap	No	1	
		<u>Chromium plated</u>		
27	32 x 40mm Bottle trap	No	3	
		<u>CATCH PITS ETC</u>		
		Carried Forward		
		R		
Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage				

Brought Forward		R
<u>The following in stormwater catchpits, junction boxes and inlet manholes</u>		
<u>TAPS, VALVES, ETC</u>		
<u>"Cobra Watertech"</u>		
28	Cobra Ref. 166/041 wall type "Star" sink mixer with overarm swivel outlet	No 1
29	Cobra Watertech 15mm chrome plated hi-waste elbow action pillartap with blue indicator for cold water (Code: 504-21B), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No 6
30	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No 8
<u>SANITARY PLUMBING</u>		
<u>uPVC pipes</u>		
31	50mm Pipes	m 9
32	50mm Pipes laid in and including trenches not exceeding 1m deep	m 16
33	110mm Pipes	m 65
<u>Extra over uPVC pipes for fittings</u>		
34	50mm Bend	No 6
35	50mm Access bend	No 4
36	50mm BSP adaptor	No 2
37	50mm "GI Two-way" vent valve	No 1
38	110mm Bend	No 4
39	110mm Access bend	No 2
Carried Forward		R
Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage		

Brought Forward			R
40	110mm Pan Connector	No	2
41	110mm "GI Two-way" vent valve	No	1
	<u>Sundries</u>		
	<u>WATER SUPPLIES</u>		
	<u>Class 16 uPVC pressure pipes with solvent welded joints</u>		
42	32mm Pipes laid in and including trenches not exceeding 1m deep	m	30
43	50mm Pipes laid in and including trenches not exceeding 1m deep	m	25
	<u>Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints</u>		
44	32mm Bend	No	3
45	32mm Reducer	No	2
46	32mm Tee	No	4
47	50mm Bend	No	3
48	50mm Tee	No	2
49	35 x 50 x 35mm Junction	No	1
	<u>Class 0 copper pipes</u>		
50	15mm Pipes	m	85
51	22mm Pipes	m	65
	<u>Extra over class 0 copper pipes for capillary fittings</u>		
52	15mm Fittings	No	44
53	22mm Fittings	No	37
	Carried Forward		R
	Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage		

Brought Forward		R
<u>Brass</u>		
54	15mm Fullway gate valve	No 1
55	22mm Fullway gate valve	No 1
<u>Sundries</u>		
<u>ELECTRIC WATER HEATERS</u>		
<u>"Kwikot"</u>		
56	Kwikot 150 Litre Slimline 600 Dual electric water heater (Code : ESG-100) complying with SABS 151-2002, overall size 990 x 480mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1160 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code : GSTP-1200) and 15mm pipe work including two 15mm vacuum breakers (Code : KHN4.150CX) installed on hot and cold water supply. Installation to include a 15mm 400kPa Kwikot Mono control and expansion relief valve (Code : KHN3.104), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.	No 1
<u>FIRE APPLIANCES ETC</u>		
<u>'Chubb'</u>		
57	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No 6
58	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No 1
Carried Forward to Summary of Section No. 3		R
Section No. 3 Admin Block Bill No. 12 Plumbing and Drainage		

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.13</u>			
	<u>GLAZING</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			

	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	3	
2	Panes exceeding 0,5m2 and not exceeding 2m2	m2	22	
	<u>4mm Rough cast glass</u>			
3	Panes exceeding 0,5m2 and not exceeding 2m2	m2	4	
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
	<u>4 mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
4	Mirror 400 x 600mm high with four (4) screws	No	3	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Admin Block Bill No. 13 Glazing			

Item No		Quantity	Rate	Amount
	<u>SECTION NO.3</u>			
	<u>BUILDING WORK</u>			
	<u>BILL NO.14</u>			
	<u>PAINTWORK</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			

	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	Plascon Polvin Super Acrylic to interior new cement plaster (NW 205).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.			
1	On internal walls	m2	821	
	<u>ON SMOOTH CONCRETE</u>			
	<u>Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer Acrylic paint</u>			
2	On ceilings, beams, walls and columns	m2	12	
	<u>ON FIBRE-CEMENT</u>			
	Carried Forward			R
	Section No. 3 Admin Block Bill No. 14 Paintwork			

Brought Forward			R
3	<p><u>One coat primer, one coat universal undercoat and two coats super acrylic PVA paint</u></p> <p>On ceilings and cornices</p>	m2	287
4	<p><u>Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.</u></p> <p>On fascias and barge boards</p>	m2	53
5	<p><u>Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.</u></p> <p>On window sills not exceeding 300 mm girth</p>	m	99
<u>ON METAL</u>			
Carried Forward			R
<p>Section No. 3 Admin Block Bill No. 14 Paintwork</p>			

Brought Forward			R
	<p><u>Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.</u></p>		
6	On door frames	m2	23
7	On strong room doors	m2	5
8	On windows with burglar bars	m2	69
9	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	28
10	On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high	m	99
	<u>ON WOOD</u>		
	<p><u>Plascon Velvaglo Satin to interior new wood (NW 571).Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u></p>		
11	On doors	m2	35
	Carried Forward		R
	Section No. 3 Admin Block Bill No. 14 Paintwork		

	Brought Forward			R
	<u>Three coats matt varnish</u>			
12	On doors	m2	11	
13	On skirtings, rails, cornices etc not exceeding 300 mm girth	m	325	
Carried Forward to Summary of Section No. 3				R
Section No. 3 Admin Block Bill No. 14 Paintwork				

Bill No		Page No	Amount
	Section No. 3		
	Admin Block		
	<u>SECTION SUMMARY - Admin Block</u>		
1	Foundations	195	
2	Concrete, Formwork and Reinforcement	199	
3	Masonry	203	
4	Waterproofing	204	
5	Roof Coverings, etc	206	
6	Capentry and Joinery	213	
7	Ceilings, Partitions and Access Flooring	215	
8	Ironmongery	219	
9	Metalwork	224	
10	Plastering	225	
11	Tiling	227	
12	Plumbing and Drainage	238	
13	Glazing	239	
14	Paintwork	243	
	Carried to Final Summary		R
	Section No. 3		
	Admin Block		

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>EXTERNALWORKS</u>			
	<u>BILL NO.1</u>			
	<u>FLAG POLES</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
1	Base 600 x 600 x 700mm deep including all earthworks and etc.	No	3	
	<u>METALWORK</u>			
	<u>Galvanised mild steel flagpoles and flag as supplied by National Flag (Tel : 011 887 0143):</u>			
2	6m Long plagpole complete with ropes, caps,pulleys, tie buckles, tilt bases, stanless steel bolts and nuts and setup and cast into concrete base (concrete base elsewhere measured).	No	1.0	
	<u>SUNDRIES</u>			
3	Standard fabric South African flag size 1800 x 1200mm with necessary fixing attachements for flagmast.	No	1	
4	Standard fabric African Union falg size 1800 x 1200mm with necessary fixing attachements for flagmast.	No	1	
5	Ditto, but purpose made for Seshigo Secondary School Flag.	No	1	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 External Works Bill No. 1 Flag Poles			

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>EXTERNALWORKS</u>			
	<u>BILL NO.2</u>			
	<u>SEPTIC TANK AND FRENCH DRAIN</u>			
	<u>THE FOLLOWING FOR SEPTIC TANK</u>			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE, ETC.</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	82	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2	Pit	m3	35	
3	Working Space	m3	10	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
4	Soft rock	m3	14	
5	Hard rock	m3	9	
	<u>Extra over all excavations for carting away</u>			
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	35	
	Carried Forward			R
	Section No. 4 External Works Bill No. 2 Septic Tank and French Drain			

Brought Forward							
	<u>Risk of collapse of excavations</u>						R
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	37				
	<u>Keeping excavations free of water</u>						
8	Keeping excavations free of all water other than subterranean water			Item			
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>						
9	To bottoms and sides of trenches etc	m2	10				
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>							
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>							
	<u>25MPa/19mm concrete</u>						
10	Inside Pit	m3	6				
<u>REINFORCED CONCRETE</u>							
	<u>25MPa/19mm concrete</u>						
11	Septic Tank Slab	m3	3				
	<u>Fabric reinforcement</u>						
12	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	11				
<u>FORMWORK</u>							
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>							
	<u>Rough formwork to slab</u>						
Carried Forward							R
Section No. 4 External Works Bill No. 2 Septic Tank and French Drain							

Brought Forward			R
	<u>Permanent formwork to soffits</u>		
13	Slabs propped up not exceeding 1.5m high	m2	11
14	Extra over for forming 450 x 450mm opening on slab.	No	2
<u>TEST CUBES</u>			
15	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	2.0
<u>BRICKWORK</u>			
	<u>Brickwork of NFX bricks in class II mortar</u>		
16	One brick walls in pit	m2	26
<u>BRICKWORK SUNDRIES</u>			
	<u>Brickwork reinforcement</u>		
17	150mm Wide reinforcement built in horizontally	m	130
<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>		
18	On walls in pit	m2	26
19	Two coats epoxy waterproofing paint plastered walls.	m2	26
<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>		
20	110mm Pipes vertically or ramped to cleaning eye etc (no excavation)	m	4
21	110mm Pipes laid in and including trenches not exceeding 1m deep	m	40
Carried Forward			R
Section No. 4 External Works Bill No. 2 Septic Tank and French Drain			

Brought Forward			R
<u>Extra over uPVC pipes for fittings</u>			
22	110mm Access junction	No	2
23	110mm Junction	No	4
24	110mm Vent Pipe	No	2
25	110mm Bend	No	5
26	110mm Rodding Eye	No	7
<u>MANHOLE COVERS</u>			
<u>Covers, etc</u>			
27	450 x 450mm x 74kg Type 8A cast iron double seal manhole cover and frame	No	2
<u>FRENCH DRAIN</u>			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
28	French Drain	m3	134
<u>Extra over all excavations for carting away</u>			
29	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	134
<u>Risk of collapse of excavations</u>			
30	Sides of trench and hole excavations not exceeding 1,5m deep	m2	62
<u>Keeping excavations free of water</u>			
31	Keeping excavations free of all water other than subterranean water	Item	
Carried Forward			R
Section No. 4 External Works Bill No. 2 Septic Tank and French Drain			

	Brought Forward			R
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
32	Backfilling to trenches, holes, etc	m3	5	
	<u>Approved 15mm to 75mm stone filling supplied and carted by the contractor and backfilling.</u>			
33	French Drain.	m3	129	
	<u>Approved Geofbric filter blanket wrapped around with 150mm side and 300mm end lapse including stitching.</u>			
34	French Drain.	m2	19	
	<u>SOIL DRAINAGE</u>			
	<u>uPVC pipes</u>			
35	110mm Pipes laid in and including trenches not exceeding 1m deep	m	16	
	<u>Extra over uPVC pipes for fittings</u>			
36	110mm Bend	No	2	
37	110mm Junction	No	3	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 External Works Bill No. 2 Septic Tank and French Drain			

Section No. 4

External Works

SECTION SUMMARY - External Works

Bill No		Page No	Amount
1	Flag Poles	245	
2	Septic Tank and French Drain	250	
	Carried to Final Summary		R
	Section No. 4 External Works		

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5</u></p> <p><u>BILL NO.1</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the Preliminaries</p> <p>NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill</p>			
	Carried Forward		R	
	Section No. 5 Provisional Sums Bill No. 1 Provisional Sums			

Brought Forward			R	
<p>THE FOLLOWING PROVISIONAL SUMS ARE FOR WORK TO BE EXECUTED BY SELECTED SUBCONTRACTORS</p> <p>The following Provisional Sums are for specialists work to be executed by a selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-Contractor to the Contractor</p> <p>A Selected Sub-Contractor shall be a Sub-contractor executing work for which a sum of money is provided for in the Bills of Quantities or a Sub-contractor executing additional specialist work which arises as a result of an instruction by the Principal Agent/Engineer</p> <p>Tender documents for such work shall be prepared by the Principal Agent/Engineer in consultation with and to the approval of the Contractor and such tender document shall be issued by the Principal Agent/Engineer to a list of tenderers agreed upon between the Principal Agent/Engineer and Contractor. Tenders shall be submitted to the Principal Agent/Engineer</p> <p>The Selected Sub-contractor shall be chosen by the Principal Agent/Engineer and the Contractor, and the Contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the Sub-Contract agreement and the Contractor shall inform the Principal Agent/Engineer accordingly</p> <p>The procedure relating to the method of selection, obtaining of tenders, adjudication thereof and the appointment of the Selected Sub-contractor shall not create any contractual relationship between the Client and the Selected Sub-contractor</p> <p><u>Electrical Installation, etc</u></p>				
1	Provide the sum of R494 058,00 (Four Hundred and Ninety Four Thousand and Fifty Eight Rands) for electrical installation by Specialists	Item		494,058.00
	Carried Forward		R	
<p>Section No. 5 Provisional Sums Bill No. 1 Provisional Sums</p>				

**B.K MATLALA HIGH SCHOOL
FOR INDEPENDENT DEVELOPMENT TRUST (IDT)
TENDER NO:LDE/IA/B22/2019/20 (EDDP 184/150)**

Brought Forward		R
2	Allow for profit on above if required <u>School Furnitures, etc</u>	Item
3	Provide the sum of R330 000,00 (Three Hundred and Thirty Thousand Rands) for school furniture by Specialist	Item 330,000.00
4	Allow for profit on above if required <u>Parking Bays</u>	Item
5	Provide a sum of R350 000,00 (Three Hundred and Thirty Five Thousand Rands) for the supply and installation of Covered Parking Bays complete by Specialists	Item 350,000.00
6	Allow for profit on above if required <u>Community Liaison Officer</u>	Item
7	Provide the sum of R60 000,00 (Sixty Thousand Rands) for community liaison officer. CLO duties to include but not limited to EPWP reporting on monthly basis. CLO Montly rate at R4000/month	Item 60,000.00
8	Allow for profit on above if required (please note that the cost of CLO monthly payslip should also be allowed for) <u>Steel Palisade Fencing</u>	Item
9	Provide the sum of R720 800,00 (Seven Hundred And Twenty Thousand Eight Hundred Rands) for Fencing	Item 720,800.00
10	Allow for profit on above if required <u>Borehole & Elevated steel water tank</u>	Item
11	Provide the sum of R668 000,00 (Six Hundred and Sixty Eight Thousand Rands) for Borehole & elevated water tank	Item 668,000.00
12	Allow for profit on above if required	Item
<u>CONTINGENCIES</u>		
Carried Forward		R
Section No. 5 Provisional Sums Bill No. 1 Provisional Sums		

Brought Forward

Contingencies:

13 Provide the amount of R210,000.00 (Two Hundred and Ten Thousand Rands and) for contingencies to be used by the architect in terms of clause 17 of the principal Building Agreement.

Item

R

210,000.00

Carried to Final Summary

R

Section No. 5
Provisional Sums
Bill No. 1
Provisional Sums

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	162	
2	Renovations	190	
3	Admin Block	244	
4	External Works	251	
5	Provisional Sums	255	
	Sub Total		R
	<u>Add:</u> Value Added Tax at 15%		R
	Carried to Form of Tender		R