

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p>BUILDING AGREEMENT AND PRELIMINARIES The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 as prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described The ASAQS Preliminaries published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities Contractors are referred to the above mentioned documents for the full intent and meaning of each clause thereof These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above mentioned documents Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable" PREAMBLES FOR TRADES The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles will be entertained Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles The contractor's prices for all items throughout these</p>			
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	<p>SECTION A - PRINCIPAL BUILDING AGREEMENT</p> <p>Definitions</p> <p>2 Clause 1.0 - Definitions and interpretation</p> <p>1.1 Definition of "Commencement Date" is added:</p> <p>"COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:</p> <p>"CONSTRUCTION PERIOD" means the period commencing on the date that possession of the site is given to the contractor and ending on the date of practical completion</p> <p>Clause 1.1 Definition of "Interest" is amended by replacing it with the following:</p> <p>INTEREST means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No.1 of 1999)</p> <p>(a) In respect of interest owed by the employer, the interest rate as determined by the Minister of Justice and Constitutional Development, from time to time, in terms of section 1 (2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and</p> <p>(b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply.</p>			
2	<p>F: V: T:</p> <p>Objective and preparation</p> <p>3 Clause 2.0 - Offer, acceptance and performance</p>	Item		
3	<p>F: V: T:</p>	Item		
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9 The provisions herein include inter alia, compliance with all the requirements, without limiting the generality of the provisions of Clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and in particular with Construction Regulation 7(1)(a) requiring the compilation of a health and safety plan, as well as Construction Regulation 8(5) requiring the appointment of a full-time Construction Health and Safety Officer, the necessary documented health and safety specifications for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications

R

9 F: V: T:

Item

10 Clause 8.0 - Works risk

10 F: V: T:

Item

11 Clause 9.0 - Indemnities

11 F: _____ V: _____ T: _____

Item

12 Clause 10.0 - Works insurances

12 F: V: T:

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	<p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractors obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in</p> <p>10.6</p> <p>(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p> <p>10.6 Injury to Persons or loss of or damage to Properties</p>			
13	F: V: T:	Item		
	14 Clause 11.0 - Liability insurances			
14	F: V: T:	Item		
	15 Clause 12.0 - Effecting insurances			
15	F: V: T:	Item		
	16 Clause 13.0 - No clause			
16	F: V: T:	Item		
	17 Clause 14.0 - Security			
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17	F: V: T: 18 Clauses 14.1 - 14.8 are amended by replacing them with the following:	Item		
18	F: V: T: 19 Clause 15.0 - Preparation for and execution of the works	Item		
19	F: V: T: Clause 15.1.1 is amended by replacing it with: No Clause Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), Construction Regulations 2014 as per Government notice within twenty-one (21) calendar days of commencement date Clause 15.2.1 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.2 and 15.1.4	Item		
20	F: V: T: 21 Clause 16.0 - Access to the works	Item		
21	F: V: T: 22 Clause 17.0 - Contract instructions	Item		
22	F: V: T: 23 Clause 18.0 - Setting out of the works	Item		
23	F: V: T:	Item		
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	24 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			
24	F: V: T:	Item		
	25 Clause 19.0 - Assignment			
25	F: V: T:	Item		
	26 Clause 20.0 - Nominated subcontractors			
26	F: V: T:	Item		
	Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums			
27	F: V: T:	Item		
	27 Clause 20.1.3 is amended by replacing it with the following: No Clause			
	28 Clause 21.0 - Selected subcontractors			
28	F: V: T:	Item		
	29 Clause 21 is amended by replacing it with: No Clause			
29	F: V: T:	Item		
	30 Clause 22.0 - Employer's direct contractors			
30	F: V: T:	Item		
	31 Clause 23.0 - Contractor's domestic subcontractors			
31	F: V: T:	Item		
	32 Clause 24.0 - Practical completion			
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32 F: V: T:

Item

33 Clause 25.0 - Works completion

33 F: V: T:

Item

34 Clause 26.0 - Final completion

34 F: V: T:

Item

35 Clause 27.0 - Latent defects liability period

35 F: V: T:

Item

36 Clause 28.0 - Sectional completion

36 F: V: T:

Item

37 Clause 29.0 - Revision of the date for practical completion

37 F: V: T:

Item

38 The removal and replacement of materials and/or workmanship which do not conform to specification or drawings shall not constitute grounds for an extension of the construction period nor for an adjustment to the contract value (clause 29.3)

38 F: V: T:

Item

39 Clause 30.0 - Penalty for noncompletion

39 F: V: T:

Item

40 Clause 31.0 - Interim payment to the contractor

40 F: V: T:

Item

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	<p style="text-align: right;">Brought Forward</p> <p>41 The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank. Clause 31.6.5 is therefore not applicable</p> <p>41 F: V: T:</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities</p>	Item	R	
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	Brought Forward		R	
	<p>42 Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Alternative B</p> <p>31.8(8) Where security is a payment reduction in terms of 14.7 the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(8).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(8).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(8).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p>			
42	F: V: T:	Item		
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	Brought Forward		R	
43	43 Clause 32.0 - Adjustment to the contract value F: V: T:	Item		
44	44 Clauses 32. 5. 1, 32. 5.4 and 32. 5. 7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor" F: V: T:	Item		
45	45 Clause 33.0 - Recovery of expense and loss F: V: T:	Item		
46	46 Clause 33.2 is amended by adding the following clauses: 33.2.9 the contractors failure or neglect to commence with the works on the dates prescribed in the contract 33.2.10 the contractors failure or neglect to proceed with the works in terms of the contract 33.2.11 the contractors failure or neglect for any reason to complete the works in accordance with the contract 33.2.12 the contractors refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract 33.2.13 the contractors estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa F: V: T:	Item		
47	47 Clause 34.0 - Final account and final payment F: V: T:	Item		
48	48 Clause 34.13 is amended by replacing seven (7) calendar days with twenty- one (21) calendar days and deleting the words subject to the employer giving the contractor a tax invoice for the amount due F: V: T:	Item		
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49 Clause 35.0 - Payment to other parties

49 F: V: T:

Item

50 Clause 36.0 - Cancellation by employer -
contractor's default

50 F: _____ V: _____ T: _____

Item

52 Clause 37.0 - Cancellation by employer - loss and damage

51 F: V: T:

Item

53 Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

52 F: _____ V: _____ T: _____

Item

54 Clause 38.0 - Cancellation by contractor - employer's default

53 F: _____ V: _____ T: _____

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	<p>55 Clause 38.0 is amended by the addition of the following clause: 38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p>			
54	F: V: T:	Item		
	56 Clause 39.0 - Cancellation - cessation of the works			
55	F: V: T:	Item		
	57 Clause 40.0 - Dispute settlement			
	<u>F: V: T:</u>			
	58 Clause 40.2.2 is amended by replacing one (1) year with three (3) years Clause 40.6 is amended by removing the reference to: No clause Clause 40. 7.1 is amended by replacing (10) with (15) and by the addition of the following:			
56	F: V: T:	Item		
	Substitute provisions 59 Clause 41.0 - State clauses			
57	F: V: T:	Item		
	Contract variables 60 Clause 42.0 - Pre-tender information			
58	F: V: T:	Item		
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	<u>42.1 CONTRACTING AND OTHER PARTIES</u> <u>42.1.1 Employer:</u> <u>Postal</u> <u>address:</u> <u>Code: ...</u> <u>Tel:</u> <u>Fax:</u> <u>E-mail</u> <u>Tax/VAT registration</u> <u>No:</u> <u>Physical</u> <u>address:</u> <u>42.1.2 Principal agent:</u>			
63	F: V: T:	Item		
66	42.2.3 Work or installations by direct contractors			
64	F: V: T:	Item		
67	42.2.2 Site description:			
65	F: V: T:	Item		
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Brought Forward			R	
	<p>68 42.2.4 Specific options that are applicable to a state organ only Where so:</p> <p>(1) Interest rate legislation:</p> <p>(2) Lateral support insurance to be effected by the contractor ? yes/no ?</p> <p>(3) Payment will be made for materials and goods ? yes/no ?</p>			
66	<p>F: V: T:</p> <p>(4) Dispute resolution by litigation ? yes/no ?</p> <p>(5) Extended defects liability period applicable</p> <p>to the following elements:</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>	Item		
67	<p>F: V: T:</p> <p>69 42.2.5 Possession of the site is intended to be given on (date).....</p>	Item		
68	<p>F: V: T:</p> <p>70 42.2.6 Period for the commencement of the works after the contractor takes possession of the site (No of working days)</p> <p>F: V: T:</p>	Item		
69	<p>71 42.2.7 For the works as a whole: The date for practical completion and the penalty per calendar day Date Penalty R.....</p> <p>F: V: T:</p>	Item		
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	72 42.2.8 For the works in sections: The date for practical completion and the penalty per calendar day Section 1 Date Penalty R..... Section 2 Date Penalty R..... Section 3 Date Penalty R..... Section 4 Date Penalty R..... Section 5 Date Penalty R Section 6 Date Penalty R			
70	F: V: T:	Item		
	73 42.2.9 The law applicable to this agreement shall be that of (country)			
71	F: V: T:	Item		
	42.3 INSURANCES			
	74 42.3.1 Contract works insurance to be effected by contractor For the sum of: R With a deductible of: R			
72	F: V: T:	Item		
	75 42.3.2 Supplementary insurance is required - no			
73	F: V: T:	Item		
74	76 42.3.3 Public liability insurance to be effected by contractor For the sum of: R..... With a deductible of: R..... F: V: T:	Item		
	77 42.3.4 Support insurance to be effected by employer For the sum of: R..... With a deductible of: R.....			
75	F: V: T:	Item		
	42.4 DOCUMENTS			
	78 42.4.1 Waiver of the contractor's lien or right of continuing possession is required - yes			
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76	F: V: T:	Item		
79	42.4.2 Construction document copies to be supplied to the contractor free of charge (No of 3)			
77	F: V: T:	Item		
80	42.4.3 State measuring system used for drawing up bills of quantities (lump sum document?)			
78	F: V: T:	Item		
81	42.4.4 Number of working days for submission of priced documents (No of)			
79	F: V: T:	Item		
82	42.4.5 JBCC Engineering General Conditions are to be included in the contract documents - no			
80	F: V: T:	Item		
83	42.4.6 The contract value is to be adjusted using CPAP indices no Where CPAP is to be used (base month) Alternative indices (if applicable)			
81	F: V: T:	Item		
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	90 Clause 2.5 - Priced documents			
88	F: V: T:	Item		
	91 Clause 2.6 - Tender submission			
89	F: V: T:	Item		
	92 Tenders shall be valid for a period of ? days from the closing date of tenders			
	93 Clause 2.6 is amended by replacing JBCC Form of Tender with "Form of Offer/Tender" included in the returnable schedules			
90	F: V: T:	Item		
	94 Clause 3.1 - Defined works area			
	95 The area of the works to be occupied by the contractor is indicated on architect's drawing			
91	F: V: T:	Item		
	96 Clause 3.2 - Geotechnical investigation			
92	F: V: T:	Item		
	97 Clause 3.3 - Inspection of the site			
	98 Tenderers shall complete the Site INspection Certificate included in the tender documents and return the same with the tender submission			
93	F: V: T:	Item		
	99 Clause 3.4 - Existing premises occupied			
	100 Clause 3.5 - Previous work - dimensional accuracy			
94	F: V: T:	Item		
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	101 Clause 3.6 - Previous work - defects			
95	F: V: T:	Item		
	102 Clause 3.7 - Services - known			
96	F: V: T:	Item		
	103 Clause 3.8 - Services - unknown			
97	F: V: T:	Item		
	104 Clause 3.9 - Protection of trees			
98	F: V: T:	Item		
	105 Clause 3.10 - Articles of value			
99	F: V: T:	Item		
	106 Clause 3.11 - Inspection of adjoining properties			
100	F: V: T:	Item		
	107 Management of contract Clause 4.1 - Management of the works			
101	F: V: T:	Item		
	108 Clause 4.2 - Programme for the works			
102	F: V: T:	Item		
	109 Clause 4.3 - Progress meetings			
103	F: V: T:	Item		
	110 Clause 4.4 - Technical meetings			
104	F: V: T:	Item		
	111 Clause 4.5 - Labour and plant records			
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105	F: V: T: 112 Samples, shop drawings and manufacturer's instructions Clause 5.1 - Samples of materials	Item		
106	F: V: T: Clause 5.2 - Workmanship samples	Item		
107	F: V: T: Clause 5.3 - Shop drawings	Item		
108	F: V: T: Clause 5.4 - Compliance with manufacturers' instructions	Item		
109	F: V: T: Temporary works and plant Clause 6.1 - Deposits and fees <u>F: V: T:</u> Clause 6.2 - Enclosure of the works	Item		
110	F: V: T: Clause 6.3 - Advertising	Item		
111	F: V: T: Clause 6.4 - Plant, equipment, sheds and offices	Item		
112	F: V: T: Clause 6.5 - Main noticeboard	Item		
113	F: V: T:	Item		
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	Clause 6.6 - Subcontractors' noticeboard			
114	F: V: T:	Item		
	Temporary services			
	Clause 7.1 - Location			
	Clause 7.2 - Water			
115	F: V: T:	Item		
	Clause 7.3 - Electricity			
116	F: V: T:	Item		
	Clause 7.4 - Telecommunication facilities			
117	F: V: T:	Item		
	Clause 7.5 - Ablution facilities			
118	F: V: T:	Item		
	Prime cost amounts			
	Clause 8.1 - Responsibility for prime cost amounts			
119	F: V: T:	Item		
	Attendance on nominated/selected subcontractors			
	Clause 9.1 - General attendance			
120	F: V: T:	Item		
	Clause 9.2 - Special attendance			
121	F: V: T:	Item		
	Clause 9.3 - Commissioning - fuel, water and electricity			
122	F: V: T:	Item		
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	Financial aspects			
	Clause 10.1 - Statutory taxes, duties and levies			
123	F: V: T:	Item		
	Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)			
124	F: V: T:	Item		
	Clause 10.2 - Payment of preliminaries			
125	F: V: T:	Item		
	Clause 10.3 - Adjustment of preliminaries			
126	F: V: T:	Item		
	Should the contractor select Option B but fail to provide the information required prior to the signing of the contract, the principal agent shall have the right to select either Option A or B for the adjustment of preliminaries. If the principal agent selects Option B he shall be entitled to make assumptions at his discretion regarding the information which the contractor would normally have provided prior to the signing of the contract			
	Clause 10.4 - Payment certificate cash flow			
127	F: V: T:	Item		
	Clause 11.1 - Protection of the works			
128	F: V: T:	Item		
	Clause 11.2 - Protection/isolation of existing/sectionally occupied works			
129	F: V: T:	Item		
	Clause 11.3 - Security of the works			
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130	F: V: T: Clause 11.4 - Notice before covering work	Item		
131	F: V: T: Clause 11.5 - Disturbance	Item		
132	F: V: T: Clause 11.6 - Environmental disturbance	Item		
133	F: V: T: ?A copy of the environmental management plan is annexed to these bills of quantities. The contractor shall comply with all the requirements of such environmental management plan? Clause 11.7 - Works cleaning and clearing	Item		
134	F: V: T: Clause 11.8 - Vermin	Item		
135	F: V: T: Clause 11.9 - Overhand work	Item		
136	F: V: T: Clause 11.10 - Instruction manuals and guarantees	Item		
137	F: V: T: Clause 11.11 - As built information	Item		
138	F: V: T: Clause 11.12 - Tenant installations	Item		
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	Schedule of variables 12.1 - Pre-tender information			
139	F: V: T: Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either specific requirements are not required or that the clause is not relevant to this specific contract 12.1.1 - Provisional bills of quantities [clause 2.2]	Item		
140	F: V: T: The quantities are provisional - yes 12.1.2 - Availability of construction documentation [clause 2.3]	Item		
141	F: V: T: Construction documentation is complete - yes	Item		
142	F: V: T: 12.1.3 - Interests of agents [clause 2.4] - None	Item		
143	F: V: T: 12.1.4 - Defined works area [clause 3.1] Restrictions will be pointed out at the site inspection	Item		
144	F: V: T: 12.1.5 - Geotechnical investigation [clause 3.2]	Item		
145	F: V: T: 12.1.6 - Existing premises occupied [clause 3.4] - Yes, operational school	Item		
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146	F: V: T: 12.1.7 - Previous work - dimensional accuracy [clause 3.5]	Item		
147	F: V: T: 12.1.8 - Previous work - defects [clause 3.6]	Item		
148	F: V: T: 12.1.9 - Services - known [clause 3.7] Existing services and points of connection will be pointed out on site by the principal agent	Item		
149	F: V: T: 12.1.10 - Protection of trees [clause 3.9]	Item		
150	F: V: T: 12.1.11 - Inspection of adjoining properties [clause 3.11]	Item		
151	F: V: T: 12.1.12 - Enclosure of the works [clause 6.2]	Item		
152	F: V: T: 12.1.13 - Offices [clause 6.4.3] Specific requirements:	Item		
153	F: V: T:	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities			

	Brought Forward		R	
	<p>12.1.14 - Main noticeboard [clause 6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.</p>			
154	F: V: T:	Item		
	12.1.15 - Subcontractors' noticeboard [clause 6.6]			
155	F: V: T:	Item		
	A noticeboard is required - yes			
	12.1.16 - Water [clause 7.2]			
156	F: V: T:	Item		
	Option A (by contractor) yes Option B (by employer - free of charge) no Option C (by employer - metered) no			
	12.1.17 - Electricity [clause 7.3]			
157	F: V: T:	Item		
	Option A (by contractor) yes Option B (by employer - free of charge) no Option C (by employer - metered) no			
	12.1.18 - Telecommunications [clause 7.4]			
	Carried Forward		R	
	<p>Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities</p>			

Brought Forward			R	
158	F: V: T: Telephone yes Facsimile yes E-mail yes	Item		
159	F: V: T: 12.1.19 - Ablution facilities [clause 7.5]	Item		
160	F: V: T: Option A (by contractor) yes Option B (by employer) no 12.1.20 - Protection/isolation of existing/sectionally occupied works [clause 11.2]	Item		
161	F: V: T: Protection/isolation is required - yes 12.1.21 - Special attendance [clause 9.2]	Item		
162	F: V: T: 12.1.22 - Protection of the works [clause 11.1]	Item		
163	F: V: T: 12.1.23 - Disturbance [clause 11.5]	Item		
164	F: V: T: [11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent 12.1.24 - Environmental disturbance [clause 11.6]	Item		
Carried Forward			R	
Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities				

	Brought Forward		R	
165	<p>F: V: T:</p> <p>12.2 - Post-tender information</p> <p>The required post-tender information shall be inserted in the preliminaries after consultation with the contractor</p> <p>SECTION C - SPECIFIC PRELIMINARIES</p> <p>User Notes-</p> <p>User Note - All information for this section requires consultation with the contractor. The principal agent should not pre-select any of the alternatives available to the contractor</p> <p>User Note - Selected examples of typical clauses are provided to show possible ways of describing such clauses. Users must delete, adapt or add to these examples to suit their particular circumstances</p> <p>Site instructions</p> <p>Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be provided and maintained on site by the contractor</p>	Item		
166	<p>F: V: T:</p> <p>Warranties for materials and workmanship</p> <p>Where warranties for materials are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor.</p>	Item		
167	<p>F: V: T:</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities</p>	Item		
			R	

	Brought Forward		R	
	<p>Co-operation of contractor for cost management It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors</p>			
168	<p>F: V: T:</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works No information regarding this project shall be published or disclosed without the prior written consent of the employer</p>	Item		
169	<p>F: V: T:</p> <p>Propping of floors below The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p>	Item		
170	<p>F: V: T:</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities</p>			

	Brought Forward		R	
171	<p>Testing of windows for watertightness Each window shall be tested for watertightness with water sprayed on by means of a 20mm hosepipe using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure in the hosepipe shall be boosted by means of compressed air or other approved means</p> <p>F: V: T:</p> <p>Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p>	Item		
172	<p>F: V: T:</p> <p>Wherever a trade name for any product has been described in the bills of quantities, the tenderers attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for Contract drawings</p>	Item		
173	<p>F: V: T:</p> <p>Occupational Health and Safety Allowance to be made under this clause for compliance with all requirements of the occupational health and safety act and regulations</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities</p>			

	Brought Forward		R	
	<p>Health & Safety (clause C15) The Contractor shall allow for Health and Safety according to the Occupational Health and Safety Act, 1993, Construction Regulations 2014 as per Government Notice. Contractor to include all OHS requirements such as PPE, safety file, training, medicals, signage and a full-time health and safety officer</p> <p>Occupational Health and Safety Act The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities/ lump sum document The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory.</p> <p>In the event of partial or total non-compliance, the Employer, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause, as well as the clauses that follow hereafter and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced under these clauses and no additional claims in this regard shall be entertained</p>			
174	F: V: T:	Item		
	Carried Forward		R	
	<p>Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities</p>			

	Brought Forward		R	
	Provision of protective personal equipment (PPE) Provision of reflective vests Provision of signage Provision of training Provision of medical certificates, medical surveillance including initial (baseline) medical examinations, and exit examinations			
175	F: V: T: Provision of hard hats	Item		
176	F: V: T: Provision of protective footwear F: V: T:	Item		
	Provision of ear plugs			
177	F: V: T: Provision of dust masks	Item		
178	F: V: T: Provision of gloves	Item		
179	F: V: T: Provision of high visibility overalls to SARTSM Chapter 13 Level 3	Item		
180	F: V: T: Provision of SANS approved ear defenders	Item		
181	F: V: T: Provision of full time construction health and safety officer (Pr. CHSO SACPCMP Registered)	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries Tender Bills of Quantities			

Tender Bills of Quantities

Item No		Quantity	Rate	Amount	
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 2</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p>NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with some "soft rock" or "hard rock".</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> <p><u>SITE CLEARANCE ETC</u></p> <p><u>Site clearance</u></p> <p>1 Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2 12 500</p> <p><u>EXCAVATION, FILLING, ETC</u></p> <p><u>Excavation in earth not exceeding 2m deep</u></p> <p>2 Reduced levels m3 1 289</p> <p>3 Trenches, ground beams etc m3 1 033</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 2 Earthworks Tender Bills of Quantities</p>				
			R		

	Brought Forward			R	
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>				
4	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	2 329		
	<u>Extra over trench and hole excavations in earth for excavations in</u>				
5	Soft rock	m3	103		
6	Hard rock	m3	52		
	<u>Extra over back excavation in earth for working space for excavation in soft rock</u>				
7	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	233		
	<u>Extra over back excavation in earth for working space for excavation in hard rock</u>				
8	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	116		
	<u>Extra over all excavations for carting away</u>				
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1 712		
	<u>Extra over for carting away</u>				
10	Existing hard rock material on site to a dumping site to be located by the contractor	m3	52		
	<u>Risk of collapse of excavations</u>				
11	Sides of trench and hole excavations not exceeding 1,5m deep	m2	2 329		
	Carried Forward			R	
	Section No. 1 Bill No. 2 Earthworks Tender Bills of Quantities				

Brought Forward				R	
	<u>Keeping excavations free of water</u>				
12	Keeping excavations free of all water by hand, or mechanical means for all buildings		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
13	Below floors etc	m3	411		
14	Backfilling to trenches, holes, etc	m3	424		
	<u>Earth filling of G5 material supplied by the contractor compacted to 98% Mod. AASHTO density (or as stipulated by the Engineer)</u>				
15	To trenches, holes, etc	m3	139		
16	Under floors, etc	m3	412		
	<u>Earth filling of G7 material supplied by the contractor compacted to 95% Mod. AASHTO density (or as stipulated by the Engineer)</u>				
17	To trenches, holes, etc	m3	139		
18	Under floors, etc	m3	409		
	<u>Coarse river sand filling supplied by the contractor</u>				
19	Under floors etc	m3	137		
	<u>Compaction of surfaces</u>				
20	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 AASTHO density (or as stipulated by the Engineer)	m2	2 738		
	Carried Forward			R	
	Section No. 1 Bill No. 2 Earthworks Tender Bills of Quantities				

Brought Forward			R	
21	Compaction of bottom of trenches, bases etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASTHO density (or as stipulated by the Engineer)	m2	927	
	<u>Prescribed density tests on filling</u>			
22	Modified AASHTO Density test	No	80	
	<u>SOIL POISONING</u>			
	<u>Soil poisoning</u>			
23	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	2 738	
24	Soil insecticide to bottoms of trenches, holes, etc	m2	3 256	
Carried Forward to Summary of Section No. 1			R	
Section No. 1				
Bill No. 2				
Earthworks				
Tender Bills of Quantities				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></p> <p>NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Cost of tests 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>Formwork Descriptions 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.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 3 Concrete, Formwork & Reinforcement Tender Bills of Quantities</p>		R	

	Brought Forward			R	
	Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick 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 CAST AGAINST EXCAVATED SURFACES</u>				
	<u>15MPa/19mm concrete</u>				
1	Surface blinding under footings and bases	m3	46		
	<u>REINFORCED CONCRETE</u>				
	<u>25MPa/19mm concrete</u>				
2	Strip footings	m3	232		
3	Surface beds, thickenings etc in waterproofing	m3	363		
4	Walls, slabs etc	m3	9		
	<u>CONCRETE SUNDRIES</u>				
	<u>Finishing top surfaces of concrete smooth with a wood float including non-slip brush finish</u>				
5	Surface beds, slabs, etc	m2	2 738		
	<u>ROUGH FORMWORK</u>				
	<u>Rough formwork to sides</u>				
6	Footings, bases etc	m2	520		
	Carried Forward			R	
	Section No. 1 Bill No. 3 Concrete, Formwork & Reinforcement Tender Bills of Quantities				

	Brought Forward			R	
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
	<u>Rough formwork to sides</u>				
7	Walls	m2	83		
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	1 065		
	<u>Rough formwork to soffits</u>				
9	Slabs	m2	8		
	<u>MOVEMENT JOINTS ETC</u>				
	<u>Expansion joints with softboard between vertical concrete and brick surfaces</u>				
10	10mm Joints not exceeding 300mm high along edges of surface beds	m	1 910		
	<u>Saw cut joints</u>				
11	3 x 40mm Saw cut joints in top of concrete	m	996		
	<u>TEST BLOCKS</u>				
12	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	80		
	<u>REINFORCEMENT</u>				
	<u>Steel reinforcement to structural concrete work</u>				
13	Various diameter bars	t	25,92		
	<u>Fabric reinforcement</u>				
14	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	3 327		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 3				
	Concrete, Formwork & Reinforcement				
	Tender Bills of Quantities				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 4</u></p> <p><u>MASONRY(PROVISIONAL)</u></p> <p>NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Sizes in descriptions 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>Bagged and sealed walls Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p> <p>Face bricks Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p>Pointing Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p>Samples Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site</p> <p><u>FOUNDATIONS</u></p>			
	Carried Forward		R	
	<p>Section No. 1</p> <p>Bill No. 4</p> <p>Masonry</p> <p>Tender Bills of Quantities</p>			

	Brought Forward			R	
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar (or as stipulated by the Engineer)</u>				
1	One brick walls	m2	825		
	<u>SUPERSTRUCTURE</u>				
	<u>Brickwork of NFP bricks in class II mortar</u>				
2	Brick Piers	m3	19		
3	Half brick walls	m2	628		
4	One brick walls	m2	3 014		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
5	75mm Wide reinforcement built in horizontally	m	3 222		
6	150mm Wide reinforcement built in horizontally	m	19 196		
	<u>Prestressed fabricated lintels</u>				
7	110 x 70mm Lintels in lengths not exceeding 3m	m	522		
	<u>Turning pieces to lintels</u>				
8	230mm Wide turning pieces	m	522		
	<u>Galvanised hoop iron cramps, ties, etc</u>				
9	30 x 1,6mm Cramp 500mm long with one end fixed to wood and other end built into brickwork	No	98		
10	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	1 133		
	Carried Forward			R	
	Section No. 1 Bill No. 4 Masonry Tender Bills of Quantities				

Tender Bills of Quantities

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING(PROVISIONAL)</u></p> <p>NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Waterproofing Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.</p> <p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer 250 micron "Gunplas USB Green" polyethylene waterproofing sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u></p> <p>1 On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints m2 2 851</p> <p><u>One layer 375 micron embossed "Gunplas Brikgrip" polyethylene damp proof course fixed with approved adhesive</u></p> <p>2 On walls, stepped up in cavities, under cills, etc. m2 853</p> <p>Carried Forward</p> <p>Section No. 1 Bill No. 5 Waterproofing Tender Bills of Quantities</p>			
			R	

Brought Forward			R
<u>Prepare and apply "Sika Cemflex" acrylic based emulsion waterproofing system including "Cemflex Fabric"</u>			
On plastered walls	m2	16	
<u>JOINT SEALANTS ETC</u>			
<u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	1 910	
<u>Approved polyurethane sealant flexothane 1 by ABE or similar approved, including backing cord, bond breaker,primer, etc</u>			
10 x 40mm In saw cut joints in floors including raking out joint filler as necessary	m	996	
Carried Forward to Summary of Section No. 1			R
Section No. 1			
Bill No. 5			
Waterproofing			
Tender Bills of Quantities			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS(PROVISIONAL)</u>			
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract			
	<u>PROFILED FIBRE-CEMENT SHEETING AND ACCESSORIES</u>			
	<u>Safintra 0.55mm thick 700mm cover Saflok 700 Rain Cloud Colorplus interlocking concealed fix roof covering, fixed to timber purlins at 2112mm centres and end span purlins at 1920mm centres by means of SL 700 Clip 21 clips secured to purlins in combination with a suitable class Safintra approved water head self-tapping fasteners, all in accordance with manufacturer's recommendations, as per architects design complete</u>			
1	Roof covering with pitch not exceeding 25 degrees	m2	3 761	
2	0.6mm Colomate finished galvanised metal ridge cap with ridge closers to manufacturer's specifications	m	547	
3	Eaves fillers	m	1 146	
	<u>0.6mm Galvanised Steel IBR Roof Sheeting with Chromodek finish fixed in accordance with Manufacturer's instructions</u>			
4	Roof covering with pitch not exceeding 25 degrees	m2	14	
	Carried Forward		R	
	Section No. 1 Bill No. 6 Roof Coverings Tender Bills of Quantities			

Tender Bills of Quantities

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u> <u>BILL NO. 7</u> <u>CARPENTRY AND JOINERY(PROVISIONAL)</u> NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract <u>SUPPLEMENTARY PREAMBLES</u> Fixing Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere <u>ROOFS ETC</u> Design, fabrication, supply and installation of the Roof Structure Construction. The Timber Roof Construction Sub-Contractor shall provide all materials (such as nails, ties, trusses, rafters, bracing, painting of exposed timbers, purlins, etc), equipment, labour, services and Engineer's Certificate necessary for the complete and efficient operation of the Installation, all in strict accordance to the architect's approval			
1	Roof area measured flat on plan	m2	3 133	
	<u>Sawn Softwood</u>			
2	38 x 114mm Wall plates	m	713	
	Carried Forward			R
	Section No. 1 Bill No. 7 Carpentry And Joinery Tender Bills of Quantities			

Brought Forward

SKIRTINGS

Wrought Meranti

3	100 x 18mm Skirting plugged, including quarter round timber	m	1 317
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DADO RAILS

Isowood

4	80 x 24mm "Isowood" or similar approved classical type dado rail, installed in position, as per Manufacturer's specifications, including all adhesives, sanding, filling and sealing etc	m	234
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DOORS ETC

Semi-solid flush panel doors

5	D05 size 900 x 2032 x 40mm	No	3
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6	D10 size 813 x 2032 x 40mm	No	23
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Solid flush panel doors with hardboard both sides and two concealed edges

7	D02 size 813 x 2032 x 40mm	No	36
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8	D06 size 813 x 2032 x 40mm	No	3
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Supawood Doors with cladding to external faces, as per architectural specifications

9	D08 size 1500 x 1845 x 40mm	No	1
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10	D09 size 1000 x 1845 x 40mm	No	2
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Wrought Meranti Doors

11	D01 size 813 x 2032 x 40mm	No	28
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Carried Forward

Section No. 1
Bill No. 7
Carpentry And Joinery
Tender Bills of Quantities

	Brought Forward			R	
	<u>FRAMED FRAMES ETC</u>				
	<u>Hardwood Frames, stained as per Architectural specifications</u>				
12	76 x 44mm Frames suitable for D08	No	1		
13	76 x 44mm Frames suitable for D09	No	2		
14	86 x 52mm Frames suitable for D05	No	3		
	<u>JOINERY SUNDRIES</u>				
	<u>Beams etc</u>				
	<u>"S7" or equal approved</u>				
15	228 x 50mm Timber beam secured to and including the truss hanger brackets / straps, including all other fixings etc complete as per Architectural details	m	28		
	<u>Shelving, cupboards, fittings etc</u>				
	NOTE: The following items have been measured as complete units i.e the components of the units have not been separately measured. The description therefore of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, cut out for sinks, decorative plastic finish, glass, ironmongery, metalwork, wall mounting brackets, paint or varnish finishes, etc Tenderers must refer to the architect's Joinery drawings and referred to in the items in order to understand the full requirements and descriptions of the works				
	Carried Forward			R	
	Section No. 1 Bill No. 7 Carpentry And Joinery Tender Bills of Quantities				

	Brought Forward			R	
16	Grade R Block Storeroom 1 shelving (approximate wall surface area 8615mm x 2100mm high) comprising 600mm wide shelves and base made of 20mm melamine or similar approved. All exposed edges of melamine to receive a 3mm thick white PVC impact edging. Shelving to be countersunk screwed to brackets from below. Brackets and support bands are epoxy coated, metal free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings. All shelving to be adjustable. and as per Architectural details and specifications	No	1		
17	Grade R Block Storeroom 2 shelving (approximate wall surface area 8140mm x 2100mm high) comprising 600mm wide shelves and base made of 20mm melamine or similar approved. All exposed edges of melamine to receive a 3mm thick white PVC impact edging. Shelving to be countersunk screwed to brackets from below. Brackets and support bands are epoxy coated, metal free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings. All shelving to be adjustable. and as per Architectural details and specifications	No	1		
18	Admin Block Principal's office shelving (approximate wall surface area 2800mm x 2100mm high) comprising 600mm wide shelves and base made of 20mm melamine or similar approved. All exposed edges of melamine to receive a 3mm thick white PVC impact edging. Shelving to be countersunk screwed to brackets from below. Brackets and support bands are epoxy coated, metal free standing units, bolted together with metal corner support posts etc with floor cupboards below (measured elsewhere) as per Architectural details and specifications	No	1		
	Carried Forward			R	
	Section No. 1 Bill No. 7 Carpentry And Joinery Tender Bills of Quantities				

Brought Forward			R	
19	Media Library shelving (approximate wall surface area 21690mm x 2100mm high) comprising 600mm wide shelves and base made of 20mm melamine or similar approved. All exposed edges of melamine to receive a 3mm thick white PVC impact edging. Shelving to be countersunk screwed to brackets from below. Brackets and support bands are epoxy coated, metal free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings. All shelving to be adjustable. and as per Architectural details and specifications	No	1	
20	Classroom Storerooms shelving (approximate wall surface area 5300mm x 2100mm high) comprising 600mm wide shelves and base made of 20mm melamine or similar approved. All exposed edges of melamine to receive a 3mm thick white PVC impact edging. Shelving to be countersunk screwed to brackets from below. Brackets and support bands are epoxy coated, metal free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings. All shelving to be adjustable. and as per Architectural details and specifications	No	12	
21	Grade R Block wall cupboard unit size 1995 x 600 x 600mm high with all external exposed surfaces to be wrapped in melamine. All cupboards to have locks installed, with 160mm aluminium barrel handles to doors and drawers with floor cupboard below, as per Architectural details and specifications	No	3	
22	Grade R Block floor cupboard unit size 1995 x 600 x 900mm high with all external exposed surfaces to be wrapped in melamine. All cupboards to have locks installed, with 160mm aluminium barrel handles to doors and drawers with "Eezi-Quartz" counter top, as per Architectural details and specifications	No	3	
Carried Forward			R	
Section No. 1 Bill No. 7 Carpentry And Joinery Tender Bills of Quantities				

	Brought Forward			R	
23	Admin Block Principal's floor cupboard unit size 2800 x 600 x 900mm high with all external exposed surfaces to be wrapped in melamine. All cupboards to have locks installed, with 160mm aluminium barrel handles to doors and drawers with "Eezi-Quartz" or similar counter top, as per Architectural details and specifications	No	1		
24	Admin Block Kitchen wall cupboard unit size 5440 x 600 x 600mm high with all external exposed surfaces to be wrapped in melamine. All cupboards to have locks installed, with 160mm aluminium barrel handles to doors and drawers with floor cupboard below, as per Architectural details and specifications	No	1		
25	Admin Block Kitchen floor cupboard unit size 5440 x 600 x 900mm high with all external exposed surfaces to be wrapped in melamine. All cupboards to have locks installed, with 160mm aluminium barrel handles to doors and drawers with "Eezi-Quartz" counter top, as per Architectural details and specifications	No	1		
26	Media Library reception cupboard unit size 5200 x 800 x 1100mm high with all external exposed surfaces to be wrapped in formica, including 100 x 22mm support clad in melamine to match all cupboards and to provide support for shelf. Floating shelf, front facing panels and internal carcasses are to be wrapped in white formica. All skirtings / plinths to be chipboard wrapped in formica. All cupboards to have locks installed, with 160mm aluminium barrel handles to doors and drawers with 32mm thick post formed worktop with 180 degrees bullnosed edges all wrapped in formica, including all aluminium trims etc complete, as per Architectural details and specifications	No	1		
27	Guard House floor cupboard unit size 1580 x 600 x 900mm high with all external exposed surfaces to be wrapped in melamine. All cupboards to have locks installed, with 160mm aluminium barrel handles to doors and drawers with "Eezi-Quartz" or similar counter top, as per Architectural details and specifications	No	1		
	Carried Forward			R	
	Section No. 1 Bill No. 7 Carpentry And Joinery Tender Bills of Quantities				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 8</u></p> <p><u>CEILINGS PARTITIONS AND ACCESS FLOORING(PROVISIONAL)</u></p> <p>NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same / similar dimensions as the ceiling grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels / boards have not been deducted and pricing is to take cognisance thereof)</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>6.4mm "Rhino board" or similar approved ceiling board fixed to brandering with PVC cover strips over joints with all nail or screw heads stopped and sanded level, all in strict accordance with manufacturer's instructions, including skimming to receive paintwork (elsewhere measured)</u></p>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres in one direction only to trusses (elsewhere measured), as per manufacturers specifications	m2	2 100	
2	Extra over ceiling for 600 x 600mm trap door of 38 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	57	
	Carried Forward			
	<p>Section No. 1</p> <p>Bill No. 8</p> <p>Ceilings, Access Flooring etc</p> <p>Tender Bills of Quantities</p>		R	

Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 9</u>				
	<u>FLOOR COVERINGS(PROVISIONAL)</u>				
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Fixing Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc				
	<u>FLOOR COVERINGS</u>				
	<u>Carpet tiles including felt underlay, laid as per manufacturer's recommendations on 30mm screed (elsewhere measured)</u>				
1	On Floors	m2	30		
	<u>Non-slip resilient vinyl tile floor covering (Polyflor XL 2mm thick fully flexible PVC sheet flooring laid) as per manufacturer's recommendations on 30mm screed (elsewhere measured).</u>				
2	On floors	m2	1 859		
	<u>POLISH, SEALERS, ETC</u>				
	<u>Polish on vinyl flooring</u>				
3	Two coats of approved polish on vinyl flooring	m2	1 859		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 9				
	Floor Coverings				
	Tender Bills of Quantities				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 10</u>			
	<u>IRONMONGERY(PROVISIONAL)</u>			
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Finishes to ironmongery			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<u>HINGES, BOLTS, ETC</u>			
	<u>"Union" or equal and approved</u>			
1	Code: 096/76 - S/S 4 B/B Hinge	Pairs	95,0	
2	100mm Pad bolt	No	34	
	<u>LOCKS, CATCHES, CABIN HOOKS, ETC</u>			
	<u>"Union" or equal and approved</u>			
3	30mm Padlock	No	34	
4	Code: 170/83 - Bath/WC Indicator Bolt M170	No	14	
	Carried Forward			
	Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities		R	

Brought Forward				R	
5	Code: 56786 - Mortice Door Bolt with key SS	No	2		
6	Code: 642/35 - PROF Cylinder Deadlock SS	No	6		
7	Code: 66s1/32 - S/S Adjustable Roller Latch	No	1		
8	Code: 730/68 - 76mm Profile arch sash lock S/S	No	38		
9	Code: 742/68 - 76mm Profile Cylinder deadlock S/S	No	1		
10	Code: 880-66/78 - 5 Pin NP Double Cylinder 66mm 3K N.PL	No	44		
11	Code: 892-66/78 - 5 Pin NP Single Cylinder 3K N.PL	No	1		
12	Code: 106-150/76 – Cabin hook 150mm POL S/S	No	12		
13	Code: 120/150 - S/Chrome Flush bolt 150x20mm	No	6		
14	Code: ED908/CYL – Profile cylinder escutcheon S/SS	No	5		
15	Code: GZZW4405 - Narrow style cylinder escutcheon SS	No	6		
<u>HANDLES</u>					
<u>"Union" or equal and approved</u>					
16	Code: 295/01 295/01 – Helping hand L/H or R/H	No	2		
17	Code: 075/160/BT – 111x19 on 160x160 BPL SS	No	7		
18	Code: EDE/101C - Daytona 19mm 165x165x1.5 / PL.CYL	No	38		
19	Code: JBS209OS/350 BTB - S.S O/SET 375x350x25mm	No	12		
20	Code: JD213/305 BT - S.S P/HAND 330x305x25mm	No	4		
<u>DOOR CLOSERS</u>					
Carried Forward				R	
Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities					

Brought Forward			R	
<u>"Union" or equal and approved</u>				
21	Code: AZ2001SR - TS2000VP Door Closer with P/Arm bracket	No	7	
<u>GRAB RAILS</u>				
<u>"Railman" or equal and approved</u>				
22	Grab rails Ref DL2 Dogleg grab rail with 2 flanges. 304 high quality stainless steel 32mm o/d, finish satin polished. 80mm o/d flanges drilled and countersunk with 3 fixed screws	No	3	
23	Grab rails Ref SR2 750mm x 206mm straight grab rail position. 304 high quality stainless steel 32mm o/d, finish satin polished. 80mm o/d flanges drilled and countersunk with 3 fixed screws	No	3	
<u>LETTERS, NAMEPLATES, ETC</u>				
<u>"Union" or equal and approved</u>				
24	Code: 079/160E/MF - S/ST P/PL 160x160x1.2mm E/M&F	No	3	
25	Code: 079/160E/M -S/ST P/PL 160x160x1.2mm E/MALE	No	5	
26	Code: 079/160E/F - S/ST P/PL 160x160x1.2mm E/FEM	No	5	
27	Code: 079/160E/P - S/ST P/PL 160x160x1.2mm E/PAR	No	3	
28	Code: 079/160E/FHR - S/ST P/PL 160x160x1.2mm E/FHR	No	66	
29	Code: 079/160 - 1.6MM S/S P/PL 160x160mm	No	7	
Carried Forward			R	
Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities				

	Brought Forward			R	
	<u>150/300/450 x 70mm high with 30mm lettering (helvetica medium) with black writing on white perspex, to be fixed on doors at 1.6mm high, etc, all as per architect's signage schedule, specifications and by approved supplier</u>				
30	Sign with five numerals or letters (SICK 1)	No	1		
31	Sign with five numerals or letters (SICK 2)	No	1		
32	Sign with six numerals or letters (OFFICE)	No	1		
33	Sign with seven numerals or letters (KITCHEN)	No	1		
34	Sign with nine numerals or letters (PRINCIPAL)	No	1		
35	Sign with nine numerals or letters (PRINT ROOM)	No	1		
36	Sign with nine numerals or letters (STAFF ROOM)	No	1		
37	Sign with ten numerals or letters (STORE ROOM 1)	No	1		
38	Sign with fourteen numerals or letters (VICE PRINCIPAL 1)	No	1		
39	Sign with fourteen numerals or letters (VICE PRINCIPAL 2)	No	1		
	<u>150/300/450 x 70mm high with 30mm lettering (helvetica medium) with black writing on white perspex, to be fixed on wall at 2.2mm high, etc, all as per architect's signage schedule, specifications and by approved supplier</u>				
40	Sign with nine numerals or letters (RECEPTION)	No	1		
	Carried Forward			R	
	Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities				

	Brought Forward			R	
	<u>6mm Steel plate cut letters welded to 3 No. 10mm diameter mild steel rods fixed to wall. Lettering to be Helvetica Bold capital letters to be 300mm high. Rods to project through wall and thread cut at end and bolted on inside of wall including tubular spacers between letters and wall to ensure 15mm space between lettering and wall. Apply one coat zinc-chromate primer, one coat universal undercoat and two coats gloss enamel (colour to be determined by Architect) fixed to walls as per Architects specifications and approval</u>				
41	Sign with thirteen numerals or letters (ADMIN BUILDING)	No	1		
	<u>BATHROOM FITTINGS</u>				
	<u>Franke or equal approved</u>				
42	TR2 Stainless Steel wall mounted lockable double toilet roll holder size 281 x 126 x 136mm	No	34		
	<u>SUNDRIES</u>				
	<u>"Union" or equal and approved</u>				
43	Code: 056/76 - BR/SC Ring flush pull ring 65 X 50mm	No	4		
44	Code: 140/69 - S/Steel floor mount doorstep	No	2		
45	Code: 140/83 - Door stop floor mounted M140 SACR	No	43		
46	Code: 154/69 - S/S Hat and coat hook with rubber buffer	No	14		
47	Code: GZZWDUSTK – Dust keep	No	3		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC</u>				
	Carried Forward			R	
	Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities				

	Brought Forward			R	
	<u>"Parrot" or equal and approved</u>				
48	Magnetic white board and chalk board combo comprising of an 1820mm wide x 1220mm high centre magnetic whiteboard panel and 4 x 1220mm x 920mm high side panels with 2 x side panels comprising of chalkboard and 2 x panels comprising of chalkboard to the one side of the leaf and magnetic whiteboard to the other side of the leaf with pre-drawn lines on both sides including all fittings, fixtures etc	No	13		
49	Pinning board size 3000 x 1200mm high including aluminium frame	No	30		
	<u>"Newline" or equal and approved</u>				
50	75-85" Smart Interactive touch screen, with at least 3840 x 2160mm resolution, built in 4K voice tracking camera, speaker and microphone array including wireless projecting dongle etc as per the Architectural specifications based on DOE directive	No	2		
	<u>STATIONERY CUPBOARDS</u>				
	<u>Steel stationery cupboards</u>				
51	900 x 450 x 1800mm High heavy duty steel cupboard, "hammertone grey" in colour, with adjustable shelving	No	19		
	<u>SHELVING</u>				
	NOTE: The following items have been measured as complete units i.e the components of the units have not been separately measured. The description therefore of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, cut out for sinks, decorative plastic finish, glass, ironmongery, metalwork, wall mounting brackets, paint or varnish finishes, etc Tenderers must refer to the architect's Joinery drawings and referred to in the items in order to understand the full requirements and descriptions of the works				
	Carried Forward			R	
	Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities				

Brought Forward			R	
52	Admin Storeroom shelving (approximate wall surface area 9160mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	1	
53	Admin Strong Room shelving (approximate wall surface area 5600mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	1	
54	Admin Print Room shelving (approximate wall surface area 4800mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	1	
55	Media Storeroom 1 & 2 shelving (approximate wall surface area 10380mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	2	
56	Media Storeroom 3 & 4 shelving (approximate wall surface area 6446mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	2	
Carried Forward			R	
Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities				

	Brought Forward			R	
57	Dining & Nutrition Veg Store shelving (approximate wall surface area 4245mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	1		
58	Dining & Nutrition Dry Bulk Store shelving (approximate wall surface area 4490mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	1		
59	Dining & Nutrition Day Store shelving (approximate wall surface area 3243mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	1		
60	Dining & Nutrition Day Store shelving (approximate wall surface area 1500mm x 2100mm high) comprising epoxy powder coated metal adjustable shelving free standing units, bolted together with metal corner support posts, with feet fitted with PVC corners, to protect floor coverings and as per Architectural details and specifications	No	1		
	Carried Forward			R	
	Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities				

Brought Forward				R	
<u>KITCHEN CUPBOARDS</u>					
NOTE: The following fittings have been measured as complete units i.e the components of the units have not been separately measured. The description therefore of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, cut out for sinks, decorative plastic finish, glass, ironmongery, metalwork, wall mounting brackets, paint or varnish finishes, etc Tenderers must refer to the architect's Joinery drawings and referred to in the items in order to understand the full requirements and descriptions of the works					
<u>Steel kitchen cupboards with baked enamel finish plugged</u>					
61	Floor unit 1500 x 650 x 900mm high stainless steel table and worktop formed of 304 stainless steel 1.2mm thick with a 50 x 10mm turn down all the way around. The underside is to be sprayed with vermin proof bitumastic sound deadening, square legs to provide support. Stainless steel under shelf to be supplied to all tables, as per Architectural specifications	No	2		
62	Floor unit 1850 x 650 x 900mm high stainless steel table and worktop formed of 304 stainless steel 1.2mm thick with a 50 x 10mm turn down all the way around. The underside is to be sprayed with vermin proof bitumastic sound deadening, square legs to provide support. Stainless steel under shelf to be supplied to all tables, as per Architectural specifications	No	5		
63	Sink unit 1500 x 650 x 900mm high stainless steel table and worktop formed of 304 stainless steel 1.2mm thick with a 50 x 10mm turn down all the way around. The underside is to be sprayed with vermin proof bitumastic sound deadening, square legs to provide support. Stainless steel under shelf to be supplied to all tables, with stainless steel WHB to be built in seamlessly into table and to be supplied with all necessary plumbing fixtures, as per Architectural specifications	No	2		
Carried Forward				R	
Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities					

64	<p style="text-align: right;">Brought Forward</p> <p>Sink unit 2400 x 650 x 900mm high stainless steel table and worktop formed of 304 stainless steel 1.2mm thick with a 50 x 10mm turn down all the way around. The underside is to be sprayed with vermin proof bitumastic sound deadening, square legs to provide support. Stainless steel under shelf to be supplied to all tables, with stainless steel WHB to be built in seamlessly into table and to be supplied with all necessary plumbing fixtures, as per Architectural specifications</p> <p style="text-align: right;">No</p>	1	R	
	<p style="text-align: right;">Carried Forward to Summary of Section No. 1</p> <p>Section No. 1 Bill No. 10 Ironmongery Tender Bills of Quantities</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 11</u></p> <p><u>METALWORK(PROVISIONAL)</u></p> <p>NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p><u>SUNDRY GALVANIZED STEELWORK</u></p> <p><u>Steel posts</u></p> <p>1 60 x 60 x 3mm SHS steel posts 2505mm high bolted onto galvanised metal plates fixed to columns, beams, timber, brickwork etc including all necessary fixings, etc complete No 6</p> <p>2 200 x 100 x 8mm Base Plate with 2 holes to cater for, and including M16 chemical anchors No 6</p> <p>3 150 x 100 x 5mm Cap plate with 4 holes to cater for and including M12 bolts, including all nuts, washers etc No 12</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 11 Metalwork Tender Bills of Quantities</p>			
			R	

	Brought Forward			R	
4	150 x 80 x 5mm Cap plate with 4 holes to cater for and including M12 bolts, including all nuts, washers etc	No	6		
5	20mm Thick non-shrink grout below base plates, including chamfered edges etc	m3	0,1		
	<u>SUNDRY STAINLESS STEELWORK</u>				
	<u>Grade 306 stainless steel balustrades with top and vertical rails to be 50.8mm diameter stainless steel and horizontal and intermediate stainless steel railings are to be fixed to vertical posts with no more than 100mm gap between railings, all to comply with SANS 10400 (As per Architectural Specifications)</u>				
6	1000mm High fixed to concrete surfaces / walkways	m	166		
	<u>MILD STEEL DOORS, FRAMES ETC</u>				
	<u>1.2mm Double rebated frames including all sealing etc as per Architectural specifications</u>				
7	Frame for single door type D01, size 813 x 2032 mm high	No	28		
8	Frame for single door type D02, size 813 x 2032 mm high	No	36		
9	Frame for double door type D03, size 1524 x 2032 mm high	No	6		
10	Frame for single door type D06, size 813 x 2032 mm high	No	3		
11	Frame for single door type D10, size 813 x 2032 mm high	No	23		
	Carried Forward			R	
	Section No. 1 Bill No. 11 Metalwork Tender Bills of Quantities				

Brought Forward			R	
<u>Metal gates</u>				
12	Gate G01 overall size 925 x 2032mm high gate with 50 x 50mm mild steel square frame and 10 x 10mm mild steel bars placed at 100mm centres at 45 degree angles, hung with two pair of galvanised mild steel hinges including locks, handles, ironmongery complete	No	30	
13	Gate G02 overall size 1630 x 2032mm high gate with 50 x 50mm mild steel square frame and 10 x 10mm mild steel bars placed at 100mm centres at 45 degree angles, hung with two pair of galvanised mild steel hinges including locks, handles, ironmongery complete	No	2	
14	Gate G03 overall size 1280 x 1550mm high gate with 50 x 50mm mild steel square frame and 10 x 10mm mild steel bars placed at 100mm centres at 45 degree angles, hung with two pair of galvanised mild steel hinges including locks, handles, ironmongery complete	No	1	
15	Gate G04 overall size 900 x 1610mm high gate with 50 x 50mm mild steel square frame and 10 x 10mm mild steel bars placed at 100mm centres at 45 degree angles, hung with two pair of galvanised mild steel hinges including locks, handles, ironmongery complete	No	1	
<u>Standard Steel "Cottage Pane French" doors as per Architectural specifications</u>				
16	D03 size 1524 x 2032mm high	No	6	
<u>Steel Doors, including sealing all round</u>				
17	D07 size 1511 x 2032mm high, including rolled steel sectioned frames to match	No	1	
<u>MILD STEEL WINDOWS, LOUVRES, DOORS, ETC.</u>				
<u>Standard Steel "School Type" metal windows as per Architectural specifications</u>				
18	Window W01 size 1022 x 1245mm high	No	13	
Carried Forward			R	
Section No. 1 Bill No. 11 Metalwork Tender Bills of Quantities				

	Brought Forward			R	
19	Window W02 size 1022 x 949mm high	No	7		
20	Window W03 size 1022 x 654mm high	No	10		
21	Window W04 size 533 x 654mm high	No	31		
22	Window W05 size 889 x 1248mm high	No	140		
23	Window W06 size 889 x 854mm high	No	32		
24	Window W07 size 889 x 457mm high	No	21		
25	Window W08 size 1500 x 1250mm high	No	16		
26	Window W09 size 900 x 850mm high	No	10		
	<u>Burglar bars (as per Architectural specifications) made to standard "School Type" pattern to be welded at all intersections and against window frames to be fixed sections at inside of classroom and bent 75mm (or as approved) away from glass, fitted over entire window</u>				
27	To fit window type W01, size 1022 x 1245mm high	No	13		
28	To fit window type W02, size 1022 x 949mm high	No	7		
29	To fit window type W03, size 1022 x 654mm high	No	10		
30	To fit window type W04, size 533 x 654mm high	No	31		
31	To fit window type W05, size 889 x 1248mm high	No	140		
32	To fit window type W06, size 889 x 854mm high	No	32		
33	To fit window type W07, size 889 x 457mm high	No	21		
34	To fit window type W08, size 1500 x 1250mm high	No	16		
35	To fit window type W09, size 900 x 850mm high	No	10		
	Carried Forward			R	
	Section No. 1 Bill No. 11 Metalwork Tender Bills of Quantities				

	Brought Forward			R	
	<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u>				
	<u>"Austen Safe Cat. 1 Built Pro" or other approved Strongroom doors etc suitable for 220mm walls fixed to brickwork or concrete, complete</u>				
36	D04 Strong room door 900 x 2032 mm high	No	1		
	<u>STEEL ROLLER SHUTTERS ETC</u>				
	<u>Aluminium roller shutters fixed to brickwork or concrete</u>				
37	Manual push-up slatted roller shutter for 1200 x 905mm high opening	No	1		
38	Manual push-up slatted roller shutter for 3000 x 905mm high opening	No	1		
	<u>EAVES, VERGES, ETC</u>				
	<u>Aluminium or similar approved fascia / barge boards</u>				
39	Aluminium barge boards including jointing strips etc if required, as per Architectural specifications	m	1 146		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 11				
	Metalwork				
	Tender Bills of Quantities				

Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 12</u>				
	<u>PLASTERING(PROVISIONAL)</u>				
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract				
	<u>PLASTERING</u>				
	<u>SCREEDS</u>				
	<u>Screeds wood floated on concrete</u>				
1	30mm Thick on floors and landings	m2	2 726		
	<u>INTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork</u>				
2	On walls	m2	4 608		
3	On narrow widths	m2	230		
	<u>Cement plaster rendering coat with 6mm cretestone gypsum skim plaster finishing coat, on concrete</u>				
4	On ceilings	m2	8		
	<u>EXTERNAL PLASTER</u>				
	<u>Cement plaster on brickwork</u>				
5	On walls	m2	44		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 12				
	Plastering				
	Tender Bills of Quantities				

Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 13</u>				
	<u>TILING(PROVISIONAL)</u>				
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract				
	<u>WALL TILING</u>				
	<u>300 x 300 x 10mm thick ceramic tiles (similar or equal approved) on plastered brickwork including adhesive backing etc</u>				
1	On walls	m2	970		
	<u>FLOOR TILING</u>				
	<u>500 x 500 x 13mm thick clay tiles, Type B1 laid on polymer cement adhesives</u>				
2	On floors, landings, treads etc	m2	161		
3	Skirting 100mm high of cut stretcher course tiles	m	285		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 13				
	Tiling				
	Tender Bills of Quantities				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 14</u>			
	<u>PLUMBING AND DRAINAGE(PROVISIONAL)</u>			
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>RAINWATER DISPOSAL</u>			
	<u>"Watertite" or similar approved aluminium</u>			
1	155 x 100 x 115mm Ogee eaves gutters	m	569	
2	Extra over 155 x 100 x 115mm Ogee eaves gutter for stopped end	No	42	
3	Extra over 155 x 100 x 115mm Ogee eaves gutter for outlet for 100 x 75mm pipe	No	37	
4	100 x 75mm Rainwater pipes	m	145	
5	Extra over 100 x 75mm rainwater pipe for bend	No	74	
6	Extra over 100 x 75mm rainwater pipe for shoe	No	37	
	<u>STORMWATER DRAINAGE</u>			
	<u>Class 34 uPVC pipes or equal approved</u>			
7	160mm Pipes laid in and including trenches not exceeding 1m deep, bedding below pipes etc	m	70	
	Carried Forward		R	
	Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities			

	Brought Forward			R	
	<u>Extra over uPVC pipes for fittings</u>				
8	160mm Bend	No	14		
9	160mm Access bend	No	7		
	<u>Precast concrete catchpit covers</u>				
10	1200 x 1200mm Heavy duty precast concrete catchpit cover for stormwater catchpit at soakaway, as per Engineering specifications	No	57		
	<u>Stormwater outlets</u>				
11	Soakaway Type 1 (5 chamber) size 6525mm x 1545mm, not exceeding 1500mm deep internally, formed of 300mm wide ground beams for M150 concrete block walls 1300mm high with bidum U14 and course river sand to outer face, with 100mm thick rubble layer on floor. Pipe inlet to be cast in a single chamber with a 600mm wide ground beam below. Allow for 200mm x 200mm opening at base of each chamber, with precast concrete covers above (elsewhere measured) including all excavations, backfilling, compaction, concrete, brickwork etc complete - as per Engineering specifications	No	1		
12	Soakaway Type 2 (8 chamber) size 5280mm x 2790mm, not exceeding 1500mm deep internally, formed of 300mm wide ground beams for M150 concrete block walls 1300mm high with bidum U14 and course river sand to outer face, with 100mm thick rubble layer on floor. Pipe inlet to be cast in a single chamber with a 600mm wide ground beam below. Allow for 200mm x 200mm opening at base of each chamber, linking to each other, with precast concrete covers above (elsewhere measured) including all excavations, backfilling, compaction, concrete, brickwork etc complete - as per Engineering specifications	No	5		
	Carried Forward			R	
	Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities				

Brought Forward			R	
13	Soakaway Type 3 (12 chamber) size 5280mm x 4035mm, not exceeding 1500mm deep internally, formed of 300mm wide ground beams for M150 concrete block walls 1300mm high with bidum U14 and course river sand to outer face, with 100mm thick rubble layer on floor. Pipe inlet to be cast in a single chamber with a 600mm wide ground beam below. Allow for 200mm x 200mm opening at base of each chamber, linking to each other, with precast concrete covers above (elsewhere measured) including all excavations, backfilling, compaction, concrete, brickwork etc complete - as per Engineering specifications	No	1	
	<u>Sundries</u>			
14	Allow for connection of 160mm diameter pipe from V Drains to Soakaways	No	7	
15	Testing drainage pipe system		Item	
	<u>SOIL DRAINAGE</u>			
	<u>"Marley Twin-Wall" uPVC or equal approved structured wall sewer and drain pipes</u>			
16	110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	1	
17	110mm Pipes laid in and including trenches not exceeding 1m deep	m	1	
18	160mm Pipes laid in and including trenches not exceeding 1m deep	m	1	
	<u>Extra over uPVC structured wall sewer and drain pipes for</u>			
19	110mm Bend	No	1	
20	110mm Junction	No	1	
21	110mm IE Junction	No	1	
	Carried Forward			
	Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities		R	

R

No

1

No

1

Brick inspection chambers including precast concrete cover slabs (covers elsewhere) and channels in benching

No

1

No

1

No

1

No

1

No

1

Item

No

2

No

4

R

Tender Bills of Quantities

Brought Forward			R	
32	Franke LDL double compartment wash trough size 1200x500x257mm deep fixed to wall on a pair of falcon brackets	No	1	
<u>"Vaal" or equal Approved</u>				
33	White 90 vitreous china pan with white heavy duty single plastic flap seat, including 9 litre low level white vitreous china cistern with valve fittings and matching flush pipes etc complete	No	23	
34	Mini white 90 vitreous china pan with white heavy duty single plastic flap seat, including 5 litre low level white vitreous china cistern with valve fittings and matching flush pipes etc complete	No	2	
35	Paraplegic back inlet 90 degree wall hung open rim wash-down pan and matching 9 litre cistern complete with lid, fitments, and purpose made c.p. side-flush lever (left or right) Supplied with purpose made urea seat and cover plate.	No	3	
36	Vaal Hibiscus size 510 x405mm wash hand basin fixed to wall on pair of basin fixations with one tap hole punched out, 31mm chromium plated outlet, with plug, chain and anchor and 32mm back nut complete	No	26	
37	White vitreous china wall urinal 610 x 385 washdown wall urinal with wall hangers, strainer waste, top inlet spreader adn chrome plated flush pipes with 4.5 litre cistern with back inlet and PC push button	No	4	
<u>WASTES UNIONS ETC</u>				
<u>"Cobra Watertech"</u>				
38	32mm 301CP slotted basin waste union	No	26	
39	40mm 316CP unslotted bath or sink waste union	No	7	
<u>TRAPS ETC</u>				
Carried Forward			R	
Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities				

	Brought Forward			R	
	<u>"Flexitrap" flexible rubber traps, etc</u>				
40	50mm Deep seal "P" or "S" sink trap	No	7		
	<u>"Cobra Watertech"</u>				
41	32mm 345/50CP deep seal bottle trap with outlet for 50mm PVC	No	26		
42	40mm 345/50CP deep seal bottle trap with outlet for 50mm PVC	No	8		
	<u>TAPS, VALVES, ETC</u>				
	Taps, valves, etc and joints to copper pipes including all necessary adaptors, etc				
	<u>"Cobra Watertech"</u>				
43	15mm 232/350CP angle regulating valve with 350mm long bendable service pipe	No	31		
44	15mm 832/350FCP ball type angle valve with 350mm long with 350mm long flexible hose connector	No	15		
45	15mm ballovalve type valve	No	15		
46	22mm 1003/125RB fullway gate valve	No	15		
47	35mm Ballostop	No	11		
48	50mm Ballostop	No	11		
49	15mm 3294STCP 'Stella' one hole basin mixer with cast fixed spout, plug, chain, stay, mounting kit and 400mm long flexible connection tubes	No	30		
50	15mm 3396STCP 'Stella' one hole sink mixer with overarm swivel outlet, mounting kit and 400mm long flexible connection tubes	No	7		
51	15mm Underwall stopcock	No	15		
	Carried Forward			R	
	Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities				

	Brought Forward			R	
52	15 mm Brass hose tap	No	2		
	<u>SANITARY PLUMBING</u>				
	<u>uPVC pipes</u>				
53	25mm Pipes	m	146		
54	50mm Pipes	m	219		
55	50mm Pipes chased in	m	73		
56	110mm Pipes	m	146		
57	110mm Pipes chased in	m	37		
	<u>Extra on UPVC piping for the following fittings:</u>				
58	25mm fittings	No	146		
59	50mm Bend	No	191		
60	110mm Bend	No	73		
61	50mm access bend	No	35		
62	110mm access bend	No	43		
63	50mm Junction	No	30		
64	110mm Junction	No	40		
65	50mm access junction	No	22		
66	110mm access junction	No	40		
67	110mm reducing junction	No	13		
68	110mm pan connector	No	36		
69	110mm bent pan connector	No	36		
	Carried Forward			R	
	Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities				

		Brought Forward		R	
70	110mm IE pipe	No	8		
71	50mm "Two-way" vent valve	No	9		
72	110mm "Two-way" vent valve	No	10		
73	110mm rodding eye	No	8		
	<u>Sundries</u>				
74	Testing waste pipe system		Item		
	<u>WATER SUPPLIES</u>				
	<u>DOMESTIC AND FIRE</u>				
	<u>Class 0 copper pipes</u>				
75	15mm Pipes	m	1		
76	15mm Pipes chased in to brick walls	m	1		
77	22mm Pipes	m	1		
78	22mm Pipes chased in to brick walls	m	1		
79	28mm Pipes	m	1		
80	35mm Pipes	m	1		
81	42mm Pipes	m	1		
	<u>Extra over class 0 copper pipes for capillary fittings</u>				
82	15mm fittings	No	1		
83	22mm fittings	No	1		
84	28mm fittings	No	1		
85	35mm reducer	No	1		
		Carried Forward		R	
	Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities				

	Brought Forward			R	
86	42mm reducer	No	1		
87	35mm elbow	No	1		
88	42mm elbow	No	1		
89	35mm tee	No	1		
90	42mm tee	No	1		
91	35mm reducing tee	No	1		
92	42mm reducing tee	No	1		
93	35mm copper to iron coupler	No	1		
94	42mm copper to iron coupler	No	1		
95	42mm copper to iron elbow	No	1		
96	32mm copper to iron elbow	No	1		
97	54 mm Elbow	No	1		
98	54 mm Male iron elbow	No	1		
	<u>Extra over class 0 copper pipes for brass compression fittings</u>				
99	15mm fitting	No	1		
100	22mm fittings	No	1		
101	28mm fittings	No	1		
102	35mm copper to iron coupler	No	1		
103	42mm copper to iron coupler	No	1		
	Carried Forward			R	
	Section No. 1 Bill No. 14 Plumbing & Drainage Tender Bills of Quantities				

R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 15</u>			
	<u>ELECTRICAL INSTALLATION (PROVISIONAL)</u>			
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract			
	To be read in conjunction with the Specifications. All products equivalents are to approved by the Engineer. All Equipment ot be SABS and SANS Approved			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>ELECTRICAL WORK</u>			
	CONDUIT/SLEEVES INSTALLATION (including fixing brackets and accessories)			
	<u>Trenching Including Backfill and Restoration of original Surface</u>			
1	450mm x 500mm deep	m	490	
2	150mm x 300mm deep	m	100	
	<u>Supply and install PVC Conduit</u>			
3	25 mm - Recessed	m	1 700	
4	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	200	
	<u>Supply and install Bosal Conduit</u>			
5	25 mm	m	800	
	Carried Forward		R	
	Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities			

	Brought Forward			R	
6	Conduit Box - 60mm Round x 25mm deep (4 Way)	No	45		
	<u>Supply and install Sleeves/OL2000 trunking</u>				
7	OL2000 trunking or other approved Equivalent	m	40		
8	OL2000 bends and joints	m	10		
9	50mm Sleeve	m	520		
10	50mm bends and joints	m	35		
	<u>Electrical Manholes (Including covers and all Building Work)</u>				
11	Electrical Manholes (600 x 600 x 600mm deep)	No	9		
	<u>CABLE INSTALLATION</u>				
	<u>Supply and Install</u>				
12	2.5 mm2 House wire - Live (Brown)	m	1 900		
13	2.5 mm2 House wire - Neutral (Blue)	m	1 900		
14	2.5 mm2 House wire - Earth (Green)	m	1 900		
15	3C x 4 mm2 + ECC PVC SWA 600/1000V	m	30		
16	3C x 6 mm2 + ECC PVC SWA 600/1000V	m	20		
17	3C x 10 mm2 + ECC PVC SWA 600/1000V	m	449		
18	3C x 16 mm2 + ECC PVC SWA 600/1000V	m	10		
19	4C x 25 mm2 + ECC PVC SWA 600/1000V	m	100		
20	4C x 35 mm2 + ECC PVC SWA 600/1000V	m	80		
	Carried Forward			R	
	Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities				

	Brought Forward			R	
	<u>Gland and terminate 600/1000 V PVC / SWA (+ ECC) cables including the supply of cable glands</u>				
21	2.5mm2	No	69		
22	4c x 4mm2	No	2		
23	4c x 6mm2	No	2		
24	4c x 10mm2	No	12		
25	4c x 16mm2	No	2		
26	4c x 35mm2	No	2		
27	4c x 120mm2	No	2		
	<u>LIGHTING, SMALL POWER AND ACCESSORIES</u>				
	<u>Supply & install lighting fixtures (Luminaire) including fixing brackets and accessories</u>				
28	ALTSA LED Slim Battam 50W 4000k, IP20, 50 000 Hours, L80B10	No	120		
29	ALTSA LED Backlit Panel 50 W 600x600, 4000k, 50 000 Hours, L80 B 10	No	24		
30	ALTSA LED Bulkhead MB/BH/30W IP65, 4000K, L80 B10, 50 000 Hours	No	135		
31	NASA 580mm 4000K 24W Dust proof & corrosion proof IP 65 or other approved Equivalent	No	4		
32	ALTSA Post top 100W, L70 B10, 100 000 Hours, 4000k, IP 65 including 7m Pole, internal wiring, circuit breakers, access hatch.	No	7		
33	ALTSA Water Proof LED Downlight, IP64, 50 000 Hours, L80 B10, 4000k, 8W	No	11		
34	ALTSA Brillance LED Downlight, IP20, 50 000 Hours, L80 B10, 4000k, 12W	No	7		
	Carried Forward			R	
	Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities				

	Brought Forward			R	
	<u>Supply and install lighting power infrastructure including fixing brackets and accessories (PVC)</u>				
35	10A One way 1 lever light switch surface mounted in wall or other approved PRIOR to the close of tender	No	80		
36	10A One way 2 lever light switch surface mounted in wall or other approved PRIOR to the close of tender	No	2		
	<u>Supply and install small power outlets including fixing brackets and accessories (PVC)</u>				
37	16A, 3 pin, Switched Double Socket Outlet (Recessed) Euro + SA	No	77		
38	20A Three Phase Isolator	No	7		
39	Centurion D10 Industrial Sliding Gate Operator Kit (2x Batteries, 5m Steel Rack) Model SP09-1. Including 4 coded remotes, all building works, anti theft bracket and lock, mounting equipment.	No	1		
	<u>Supply and install power skirting including fixing brackets and accessories (PVC-GREY)</u>				
40	2 Compartment Aluminium Power Skirting complete with covers	m	106		
41	2 Compartment Aluminium Power Skirting internal bends	No	10		
42	2 Compartment Power Skirting end caps	No	20		
43	RJ 11 Terminal	No	4		
44	RJ 45 Terminal	No	2		
	<u>Supply and install Ceiling Fan including brackets and accessories</u>				
45	Eurolux F13W Industrial 56" Ceiling Fan (White) -3 Speed Fan with Wall Control or other approved Equivalent.	No	40		
	Carried Forward			R	
	Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities				

	Brought Forward			R	
	<u>Supply and install photo electric cell including brackets and accessories</u>				
46	Photo electric cell unit	No	14		
	<u>ENGINEERED EQUIPMENT</u>				
	<u>LV DISTRIBUTION BOARDS - Supply and Install (Colour and Dimensions must be confirmed before Manufacture) (To have bottom and top entry) (MCB's to have overload and short circuit protection) (To be in accordance to the latest SANS standards) (All equipment to be labelled with circuit labelled) (Legend Cards to be provided) (TO be of 3CR12 material construction)</u>				
47	10Ka LV Switch Board- (3CR12, 32 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl 150A three phase main breaker, 8 x 60A breakers, 10 x 20A breakers, 10 x 10 A breakers) , all breakers rated 10Ka	No	1		
48	DB 1 (3CR12, 32 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers, 1x60A) , all breakers rated 6Ka.	No	1		
49	DB 2 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers, 1x60A) , all breakers rated 6Ka.	No	1		
50	DB 3 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers, 2x60A) , all breakers rated 6Ka.	No	1		
51	DB 4 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 12 x 20A breakers, 12 x 10 A breakers, 2x60A) , all breakers rated 6Ka.	No	1		
	Carried Forward			R	
	Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities				

Brought Forward			R	
52	DB 5 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,)	No	1	
53	DB 6 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers,2x60A) , all breakers rated 6Ka.	No	1	
54	DB 7 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, btoom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers,2x60A) , all breakers rated 6Ka.	No	1	
55	DB 8 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers,2x60A) , all breakers rated 6Ka.	No	1	
56	DB 9 3CR12, 24 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers,2x60A) , all breakers rated 6Ka.	No	1	
57	DB 10 3CR12, 12 Way , with J lock, External access to main breaker, surger arrestor on each phase, bottom and top entry,) Incl breakers, 14 x 20A breakers, 14 x 10 A breakers,2x60A) , all breakers rated 6Ka.	No	1	
<u>SCAFFOLDING</u>				
58	Scaffolding		Item	
<u>EARTHING AND LIGHTNING PROTECTION</u>				
59	Allow the provisional allowance of R220,000.00 (Two hundred thousand rands) for the design and supply and installation of underground earthing and LPS		Item	
60	Allow for profit on last item		Item	
61	Allow for attendance on last item		Item	
Carried Forward			R	
Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities				

Brought Forward			R	
<u>ELECTRICITY CONNECTION / UPGRADE</u>				
62	Allow the provisional allowance of R350,000.00 (Three hundred and fifty thousand rands) for the new connection- 100A 3 phase connection, 400V, including service cable, meter box and connection cost	Item		
63	Allow for profit on last item	Item		
64	Allow for attendance on last item	Item		
<u>DECOMMISSIONING / DEMOLITION AND STORAGE AND SAFE REMOVAL OF SITE TO A REGISTERED DUMP SITE</u>				
65	Decommissioning/demolition/removal to existing buildings - Distribution Boards on the entire site	Item		
66	Decommissioning/demolition/removal to existing buildings - Lighting and small power, control, switching and protection equipment on the entire site	Item		
67	Decommissioning/demolition to existing buildings - Wiring, conduits cable trays ,routing infrastructure on the entire site	Item		
68	Decommissioning/demolition/removal to existing buildings - Cables on the entire site	Item		
69	Decommissioning/demolition/removal to existing buildings - HVAC equipment on the entire site	Item		
70	Decommissioning/demolition/removal to existing buildings - Electronic equipment, wiring, cabling and routing infrastructure	Item		
71	Decommissioning/demolition/removal of existing buildings - Electricity generation equipment, cabling wiring and routing infrastructure	Item		
72	Decommissioning/demolition/removal of existing buildings - Electricity generation equipment, cabling wiring and routing infrastructure	Item		
Carried Forward			R	
Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities				

	Brought Forward			R	
	<u>DOCUMENTATION AND CLOSE OUT</u>				
73	Close-out documentation	Item			
	<u>AIRCONDITIONING AND EXTRACTION UNITS (and all accessories)</u>				
74	Samsung AR4500 Wall Split 24000 Btu/hr Inverter, Model AR24TSHGAWK/FA	No	4		
75	Bluetech - Wall Mounted Extractor Fan - 600mm (Square) Model GLF 7	No	2		
	<u>PRELIMINARIES AND GENERAL</u>				
	<u>Fixed Charge Items</u>				
76	Contractual requirements	Item			
77	Stores Set up	Item			
78	Ablutions Set up	Item			
79	Offices Set up	Item			
80	Tools and Equipment (Including installation and testing equipment)	Item			
81	Establish and remove site Establishment	Item			
82	Internal construction support documents and shop drawings	Item			
83	Update as built status of execution documentation	Item			
84	Documentation handling	Item			
85	H&S documentation and equipment	Item			
	Carried Forward			R	
	Section No. 1 Bill No. 15 Electrical Installation Tender Bills of Quantities				

Brought Forward			R		
<u>Time related costs (Running Costs) For the duration of the contract</u>					
86	Contractual requirements	Item			
87	Transport	Item			
88	Stores	Item			
89	Abutlions	Item			
90	Offices	Item			
91	Tools and equipment	Item			
92	Supervision during Contract Period including (QC Inspector, Senior Electrical Supervisor)	Item			
93	Company and office overheads	Item			
94	Liaison and meetings(2 site meetings a month) with with client, supply authority, consultants, and specialist services provides main and sub contractors	Item			
95	Security	Item			
96	Subsistence	Item			
97	Insurance for all material and works	Item			
98	Quality Control Documentation and reporting	Item			
Carried Forward to Summary of Section No. 1			R		
Section No. 1					
Bill No. 15					
Electrical Installation					
Tender Bills of Quantities					

Item No		Quantity	Rate	Amount	
	<u>SECTION NO. 1</u>				
	<u>BILL NO. 16</u>				
	<u>GLAZING(PROVISIONAL)</u>				
	NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract				
	<u>GLAZING TO STEEL WITH PUTTY</u>				
	<u>4mm Thick toughened safety glass</u>				
1	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	19,28		
2	Panes exceeding 0,5m2 and not exceeding 2m2	m2	248		
3	Panes exceeding 3m2 and not exceeding 3.5m2	m2	19		
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
	<u>Franke 1.5mm 18/10 stainless steel mirror M500 with a reflective polished surface and concealed thief resistant fixings</u>				
4	Mirror 450 x 900mm high	No	30		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 16				
	Glazing				
	Tender Bills of Quantities				

Carried Forward

	Brought Forward			R	
	<u>Prepare and apply one coat primer, one universal undercoat and two coats enamel paint (as per Architectural specifications)</u>				
5	On windows, doors, gates etc	m2	632		
6	On backs of door frames	m2	127		
7	On steel posts not exceeding 300mm girth	m	15		
	<u>ON WOOD</u>				
	<u>Three coats superior quality clear varnish, including all sealants</u>				
8	On doors, frames etc	m2	286		
9	Beams exceeding 300mm girth	m2	14		
10	Skirtings, rails, etc not exceeding 300mm girth	m	1 317		
	<u>ON ISOWOOD</u>				
	<u>Prepare and apply one coat primer, one universal undercoat and two coats enamel paint (as per Architectural specifications)</u>				
11	Skirtings, rails, etc not exceeding 300mm girth	m	234		
	<u>ON FLOORS</u>				
	<u>Epoxy finish to floors</u>				
12	Epoxy coating, as per Architectural specifications, applied in accordance with Manufacturers instructions	m2	70		
	Carried Forward to Summary of Section No. 1			R	
	Section No. 1				
	Bill No. 17				
	Paintwork				
	Tender Bills of Quantities				

Carried Forward

Brought Forward				R	
	<u>Security fencing, gates, etc</u>				
4	<p>Clearvu invisible wall panels shall be of 3305mm x 1200mm high. Panel aperture size (centres) shall be 76.2mm x 50mm. Wire diameter will be 3.5mm. The panel shall be reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands (rigidity). Panel shall have 2 x 70° flanges along sides (internal fixtures- all fixtures shall be on the inside of fence line). Panel shall have 1 x 30° flange along top and 1 x 30° flange along toe (integrated rigid angle, anti-scale locking device). Panel post shall have a flush panel post finish with no climbing aid. Panel shall be affixed to post over 48 line wires using 16 x Single bolt comb clamps using 16 x Anti vandal bolts. Panel and fixtures shall be galvanized, then Marine Fusion Bond Coated. The fence configuration should not have any sharp corners and all angles at changes of direction should be a minimum of 130 degrees. All posts shall be 1800mm long Cochrane Taper Locking Post. Post width shall be 85mm - tapering to 45mm with a depth of 85mm. Post shall include 'Locking Recess Mechanism' to secure panel edge. Post finish shall be galvanized, then Marine Fusion Bond Coated - All to Architectural specifications</p>	m	100		
5	<p>1000 x 1200mm high pedestrian gate to suit the above fencing</p>	No	2		
Carried Forward				R	
<p>Section No. 1 Bill No. 18 External Works Tender Bills of Quantities</p>					

Brought Forward				R	
6	<p>Clearvu invisible wall panels shall be of 3305mm x 1800mm high. Panel aperture size (centres) shall be 76.2mm x 50mm. Wire diameter will be 3.5mm. The panel shall be reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands (rigidity). Panel shall have 2 x 70° flanges along sides (internal fixtures- all fixtures shall be on the inside of fence line). Panel shall have 1 x 30° flange along top and 1 x 30° flange along toe (integrated rigid angle, anti-scale locking device). Panel post shall have a flush panel post finish with no climbing aid. Panel shall be affixed to post over 48 line wires using 16 x Single bolt comb clamps using 16 x Anti vandal bolts. Panel and fixtures shall be galvanized, then Marine Fusion Bond Coated. The fence configuration should not have any sharp corners and all angles at changes of direction should be a minimum of 130 degrees. All posts shall be 2400mm long Cochrane Taper Locking Post. Post width shall be 85mm - tapering to 45mm with a depth of 85mm. Post shall include 'Locking Recess Mechanism' to secure panel edge. Post finish shall be galvanized, then Marine Fusion Bond Coated - All to Architectural specifications</p>	m	100		
7	<p>1000 x 1800mm high pedestrian gate to suit the above fencing</p>	No	3		
Carried Forward				R	
<p>Section No. 1 Bill No. 18 External Works Tender Bills of Quantities</p>					

Brought Forward			R	
8	Clearvu invisible wall panels shall be of 3305mm x 1800mm high around the existing Grade R Block. Panel aperture size (centres) shall be 76.2mm x 50mm. Wire diameter will be 3.5mm. The panel shall be reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands (rigidity). Panel shall have 2 x 70° flanges along sides (internal fixtures- all fixtures shall be on the inside of fence line). Panel shall have 1 x 30° flange along top and 1 x 30° flange along toe (integrated rigid angle, anti-scale locking device). Panel post shall have a flush panel post finish with no climbing aid. Panel shall be affixed to post over 48 line wires using 16 x Single bolt comb clamps using 16 x Anti vandal bolts. Panel and fixtures shall be galvanized, then Marine Fusion Bond Coated. The fence configuration should not have any sharp corners and all angles at changes of direction should be a minimum of 130 degrees. All posts shall be 2400mm long Cochrane Taper Locking Post. Post width shall be 85mm - tapering to 45mm with a depth of 85mm. Post shall include 'Locking Recess Mechanism' to secure panel edge. Post finish shall be galvanized, then Marine Fusion Bond Coated - All to Architectural specifications	m	106	
9	1000 x 1800mm high pedestrian gate to suit the above fencing	No	1	
10	3000 x 1800mm high sliding gate to suit the above fencing	No	1	
<u>SURFACE DRAINAGE</u>				
<u>CONCRETE 20 MPa IN-SITU STORMWATER CHANNELS RENDERED SMOOTH ALL ROUND, INCLUDING ALL EXCAVATIONS, FORMWORK ETC</u>				
11	600mm wide V drain surface channel, cast in panels to falls not exceeding 2m long, with 10mm softboard joint material between panels and abutting walls, raked out 20mm deep and sealed with grey polysulphide sealant including all angles, intersections, mitres etc, as per Engineering specifications	m	651	
Carried Forward			R	
Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

Brought Forward			R	
12	840mm wide V drain surface channel, cast in panels to falls not exceeding 2m long, with 10mm softboard joint material between panels and abutting walls, raked out 20mm deep and sealed with grey polysulphide sealant including all angles, intersections, mitres etc, as per Engineering specifications	m	34	
13	1000mm wide V drain surface channel, cast in panels to falls not exceeding 2m long, with 10mm soft board joint material between panels and abutting walls, raked out 20mm deep and sealed with grey poly sulphide sealant including all angles, intersections, mitres, etc., as per Engineering specifications	m	486	
<u>COVERED WALKWAYS</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
14	Reduced levels	m3	366	
<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>				
15	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	303	
<u>Extra over trench and hole excavations in earth for excavations in</u>				
16	Soft rock	m3	37	
17	Hard rock	m3	18	
<u>Extra over back excavation in earth for working space for excavation in soft rock</u>				
18	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	30	
Carried Forward			R	
Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

Brought Forward			R	
	<u>Extra over back excavation in earth for working space for excavation in hard rock</u>			
19	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	15	
	<u>Extra over all excavations for carting away</u>			
20	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	366	
	<u>Risk of collapse of excavations</u>			
21	Sides of trench and hole excavations not exceeding 1,5m deep	m2	303	
	<u>Keeping excavations free of water</u>			
22	Keeping excavations free of all water by hand, or mechanical means for all buildings		Item	
	<u>Earth filling of G7 material supplied by the contractor compacted to 95% Mod. AASHTO density (or as stipulated by the Engineer)</u>			
23	Under floors, etc	m3	159	
	<u>Compaction of surfaces</u>			
24	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASTHO density (or as stipulated by the Engineer)	m2	531	
	<u>Prescribed density tests on filling</u>			
25	Modified AASHTO Density test	No	20	
	<u>Soil poisoning</u>			
26	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	531	
Carried Forward			R	
Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>25MPa/19mm concrete</u>				
27	Surface beds, thickenings etc in waterproofing	m3	6 401		
	<u>Finishing top surfaces of concrete smooth with a wood float including non-slip brush finish</u>				
28	Surface beds, slabs, etc	m2	531		
	<u>Rough formwork to sides</u>				
29	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	439		
	<u>Expansion joints with softboard between vertical concrete and brick surfaces</u>				
30	10mm Joints not exceeding 300mm high along edges of surface beds	m	13		
	<u>Saw cut joints</u>				
31	3 x 40mm Saw cut joints in top of concrete	m	439		
	<u>Test blocks</u>				
32	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	20		
	<u>Fabric reinforcement</u>				
33	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	531		
	<u>One layer 250 micron "Gunplas USB Green" polyethylene waterproofing sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
34	On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints	m2	531		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
35	10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary	m	13		
	<u>Approved polyurethane sealant flexothane 1 by ABE or similar approved, including backing cord, bond breaker, primer, etc</u>				
36	10 x 40mm In saw cut joints in floors including raking out joint filler as necessary	m	439		
	<u>Prepare and apply approved bituminuos waterproofing system</u>				
37	At flashings	m2	8		
	<u>Safintra 0.55mm thick 700mm cover Saflok 700 Rain Cloud Colorplus interlocking concealed fix roof covering, fixed to timber purlins at 2112mm centres and end span purlins at 1920mm centres by means of SL 700 Clip 21 clips secured to purlins in combination with a suitable class Safintra approved water head self-tapping fasteners, all in accordance with manufacturer's recommendations, as per architects design complete</u>				
38	Roof covering with pitch not exceeding 25 degrees	m2	584		
	<u>Approved Aluminium flashing</u>				
39	At junction of roof sheeting and walls	m	13		
	<u>Steel posts</u>				
40	70 x 70 x 3mm SHS steel posts average 2500mm high bolted onto galvanised metal plates, fixed to columns, beams, etc including all necessary fixings, etc complete, as per Engineering specifications	m	549		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

Brought Forward			R	
41	70 x 70 x 3mm SHS steel beams average 2100mm long fixed to posts, beams etc including all necessary fixings, etc complete, as per Engineering specifications	m	220	
42	75 x 50 x 20 x 2mm CFLC purlins, including all fixings as per Engineering specifications	m	659	
43	75 x 50 x 6mm purlin cleats, including all fixings, as per Engineering specifications	m	659	
44	50 x 50 x 5mm horizontal bracing, including all gusset plates, necessary fixings, etc complete, as per Engineering specifications	m	531	
45	200 x 80 x 8mm Base Plate with 2 holes to cater for, and including M16 chemical anchors	No	220	
46	20mm Thick non-shrink grout below base plates, including chamfered edges etc	No	220	
	<u>Prepare and apply one coat primer, one universal undercoat and two coats enamel paint (as per Architectural specifications)</u>			
47	On steel posts, beams etc not exceeding 300mm girth	m	2 618	
	<u>MOBILE CLASSROOMS - PAVING WALKWAYS, STORM WATER CHANNELS, ETC.</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>Site clearance</u>			
48	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	381	
Carried Forward			R	
Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Open face excavation over sloping site</u>				
49	Open face excavation to form platform under walkways, etc. and depositing excavated material over site including haulage not exceeding 1km from perimeter of excavations	m3	76		
	<u>Extra over bulk excavation in earth for excavation in</u>				
50	Soft rock	m3	8		
51	Hard rock	m3	4		
	<u>Extra over all excavations for carting away</u>				
52	Surplus material from stock piles on site to a dumping site to be located by the contractor	m3	19		
	<u>Keeping excavations free of water</u>				
53	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 compacted to 98% Mod AASHTO density</u>				
54	Over site to form platforms	m3	57		
	<u>Earth filling supplied by the contractor under pavings etc</u>				
55	Over site of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density	m3	57		
	<u>Compaction of surfaces</u>				
56	Compaction of ground surface under pavings, 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	381		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Prescribed density tests on filling</u>				
57	Modified AASHTO Density test	No	8		
	<u>Soil Poisoning</u>				
58	Under paving, etc.	m2	381		
	<u>Ground preparation</u>				
59	Cultivation and preparation of areas to be planted	m2	324		
	<u>Garden soil filling obtained from the excavations and/or prescribed stock piles on site:</u>				
60	Over site	m3	81		
	<u>Topsoil, compost, lime and fertilizer</u>				
61	Topsoil obtained from prescribed stock piles on site in plant beds, grassed areas and holes for trees, shrubs, etc.	m3	32		
	<u>Grassing, ground covers, etc</u>				
62	"Kikuyu" roots in rows	m2	324		
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>				
	<u>Unreinforced Concrete</u>				
	<u>20MPa/19mm concrete</u>				
63	Strip footings	m3	13		
	<u>Test Blocks</u>				
64	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
	<u>Rough Formwork (Degree of Accuracy III)</u>				
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Rough formwork to sides</u>				
65	Strip footings (Provisional) m2	51			
	<u>PAVING</u>				
	<u>Paving of 60mm paving bricks with open joints on 20mm thick river sand bed with sand and cement mixture swept into joints, hosed down and pointed with slightly keyed joints including preparation of ground or filling</u>				
66	Paving in stretcher bond to falls m2	381			
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
67	Kerb (SABS 927, Fig 6) 75 x 230mm high with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc. m	486			
	<u>ROADWORKS ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
68	Rip and recompact 150mm thick layer to 93% Mod AASHTO Density (or as stipulated by the Engineer) m3	435			
69	Reduced levels for layerworks and deposit in spoil heaps m3	985			
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>				
70	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face m2	249			
	<u>Extra over trench and hole excavations in earth for excavations in</u>				
71	Soft rock m3	142			
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
72	Hard rock	m3	71		
	<u>Extra over back excavation in earth for working space for excavation in soft rock</u>				
73	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	25		
	<u>Extra over back excavation in earth for working space for excavation in hard rock</u>				
74	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	12		
	<u>Extra over all excavations for carting away</u>				
75	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	985		
	<u>Risk of collapse of excavations</u>				
76	Sides of trench and hole excavations not exceeding 1,5m deep	m2	249		
	<u>Keeping excavations free of water</u>				
77	Keeping excavations free of all water by hand, or mechanical means		Item		
	<u>Earth filling of G2 material supplied by the contractor compacted to 98% Mod. AASHTO density (or as stipulated by the Engineer)</u>				
78	Under paving, roadways etc	m3	435		
	<u>Earth filling of G5 material supplied by the contractor compacted to 95% Mod. AASHTO density (or as stipulated by the Engineer)</u>				
79	Under paving, roadways etc	m3	435		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Compaction of surfaces</u>				
80	Compaction of ground surface under paving etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASTHO density (or as stipulated by the Engineer)	m2	2 897		
	<u>Approved herbicide mixed in the proportion of 5ml herbicide to 1 litre water and applied at a rate of 1 litre per m2</u>				
81	Soil insecticide under paving, roadworks etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	2 897		
	<u>Bituminous premix road surfacing</u>				
82	40mm Asphalt continuously graded to roadways etc to falls, compacted to 93% Mod AASTHO density including MSP Primer @ 0.7 litres / m2 (or as specified by the Engineer)	m2	1 885		
	<u>60mm "Corobrik" pavers all laid with butt joints on 20mm thick river sand swept into joints including preparation of ground or filling, or similar as per Architectural specifications</u>				
83	Paving 60mm thick (or as approved by architect) to parking areas, etc laid to falls	m2	1 012		
	<u>Sundries</u>				
84	Finished edges against kerbs, etc	m	508		
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
85	Mountable kerb (SABS 927 fig 6) 125 x 230mm high in 1m lengths, bedded, jointed and pointed in 1:3 cement mortar, including excavation, bedding concrete, backfilling etc	m	508		
86	Ditto but circular on plan	m	135		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Etching primer and two coats of TP24 road marking paint on tar</u>				
87	Lines 100mm wide	m	360		
88	Directional / information signage	No	21		
	<u>WATER STORAGE TANKS</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
89	Trenches, ground beams etc	m3	92		
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 98% Mod AASHTO density</u>				
90	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	264		
	<u>Extra over trench and hole excavations in earth for excavations in</u>				
91	Soft rock	m3	9		
92	Hard rock	m3	5		
	<u>Extra over back excavation in earth for working space for excavation in soft rock</u>				
93	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	26		
	<u>Extra over back excavation in earth for working space for excavation in hard rock</u>				
94	Not exceeding 1.5m deep for placing and removing formwork to walls etc against excavated face	m2	13		
	<u>Extra over all excavations for carting away</u>				
95	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	63		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Risk of collapse of excavations</u>				
96	Sides of trench and hole excavations not exceeding 1,5m deep	m2	264		
	<u>Keeping excavations free of water</u>				
97	Keeping excavations free of all water by hand, or mechanical means for all buildings		Item		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density</u>				
98	Backfilling to trenches, holes, etc	m3	30		
	<u>Earth filling of G5 material supplied by the contractor compacted to 95% Mod. AASHTO density (or as stipulated by the Engineer)</u>				
99	To trenches, holes, etc	m3	14		
100	Under floors, etc	m3	39		
	<u>Compaction of surfaces</u>				
101	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASTHO density (or as stipulated by the Engineer)	m2	84		
102	Compaction of bottom of trenches, bases etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASTHO density (or as stipulated by the Engineer)	m2	92		
	<u>Soil poisoning</u>				
103	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	56		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
104	Soil insecticide to bottoms of trenches, holes, etc	m2	357		
	<u>15MPa/19mm concrete</u>				
105	Surface blinding under footings and bases	m3	5		
	<u>30MPa/19mm concrete</u>				
106	Surface beds, thickenings etc in waterproofing	m3	7		
	<u>Finishing top surfaces of concrete smooth with a wood float including non-slip brush finish</u>				
107	Surface beds, slabs, etc	m2	56		
	<u>Rough formwork to sides</u>				
108	Footings, bases etc	m2	66		
109	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	108		
	<u>Expansion joints with softboard between vertical concrete and brick surfaces</u>				
110	10mm Joints not exceeding 300mm high along edges of surface beds	m	108		
	<u>Steel reinforcement to structural concrete work</u>				
111	Various diameter bars	t	2,20		
	<u>Fabric reinforcement</u>				
112	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	149		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar (or as stipulated by the Engineer)</u>				
113	One brick walls	m2	73		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

	Brought Forward			R	
	<u>Brickwork of NFP bricks in class II mortar</u>				
114	One brick walls, on strip footings	m2	91		
	<u>Brickwork reinforcement</u>				
115	150mm Wide reinforcement built in horizontally	m	855		
	<u>Face bricks (as per Architectural specifications) pointed with recessed horizontal and vertical joints</u>				
116	Extra over brickwork for face brickwork	m2	91		
117	Extra over brickwork for brick-on-edge header courses, lintels etc	m	132		
	<u>One layer 250 micron "Gunplas USB Green" polyethylene waterproofing sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>				
118	On compacted earth under concrete surface beds, lapped 150 mm and sealed at all joints	m2	56		
	<u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>				
119	10 x 35mm In expansion joints in floors including raking out expansion joint filler as necessary	m	120		
	<u>Water storage tanks</u>				
120	5500 litre water tanks, as per Architectural specifications, including all fixings, piping, fittings etc	No	13		
	<u>Concrete Stormwater Channels</u>				
121	1000mm wide V drain, as per Engineering specifications with segmental channel formed therein and finished smooth on exposed surfaces including necessary excavation, formwork, concrete, reinforcement etc and all angles, intersections, mitres etc	m	184		
	Carried Forward			R	
	Section No. 1 Bill No. 18 External Works Tender Bills of Quantities				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 19</u></p> <p><u>PROVISIONAL SUMS(PROVISIONAL)</u></p> <p>NOTE. For Trade Preambles and amplifications of descriptions, the Contractor is referred to the "Model Preambles for Trades" (Latest Edition). Supplementary Preambles are to be read in conjunction with the "Model Preambles for Trades" and where these are at variance with the Model Preambles, they are to take preference over the Model Preambles are to apply to this contract</p> <p>The following Provisional Amounts are for equipment, etc. supplied and installed or executed complete by firms or specialists to be nominated by the Client or his representative.It should be noted that these amounts are NET, (i.e. does NOT include 5% Builders Discount) and is EXCLUSIVE of any Tax (IVA).Attendance shall in all instances be deemed to include scaffolding and other facilities to be specially provided, prescribed protective measures, etc.</p> <p>In the event of the Contractor being awarded any one or more of the items allowed for in this Bill, then the related Profit and Attendance items would be omitted, and the item or items incorporated into these Bills of Quantities at the Tendered or Adjusted Rates or Value.</p> <p><u>PROVISIONAL SUMS FOR DIRECT WORKS</u></p> <p><u>WET SERVICES ENGINEER</u></p> <p>1 Provide the sum of R440,000.00 (Four hundred and forty thousand rands) for the appointment of a Wet Services Engineer for the project</p> <p>2 Allow for profit on last item</p> <p>3 Allow for attendance on last item</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 19 Provisional Sums Tender Bills of Quantities</p>			
		Item		
		Item		
		Item		
			R	

	Brought Forward		R	
	<u>ELECTRICAL ENGINEER</u>			
4	Provide the sum of R 589 780.50 (Five Hundred and Eighty Nine Thousand, Seven Hundred and Eighty Rands, Fifty Cents) for the professional electrical engineering services for the duration of the project	Item		
5	Allow for profit on last item	Item		
6	Allow for attendance on last item	Item		
	<u>PROVISIONAL SUMS FOR NOMINATED / SELECTED SUBCONTRACT WORKS</u>			
	<u>TEMPORARY ACCOMMODATION</u>			
7	Provide the sum of R 795,000.00 (Seven hundred and Ninety Five Thousand Rands) for the supply, transportation and erection of temporary accommodation (to remain on site for the duration of construction and thereafter), as per Architectural / Engineering specifications, to be performed by a specialist if required complete with all necessary fittings and platform	Item		
8	Allow for profit on last item	Item		
9	Allow for attendance on last item	Item		
	<u>EXISTING TEMPORARY ACCOMMODATION</u>			
10	Provide the sum of R 200 000.00 (Two Hundred Thousand Rands) for the repairs of existing temporary accommodation, sewer connection to ablution facilities, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
11	Allow for profit on last item	Item		
12	Allow for attendance on last item	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 19 Provisional Sums Tender Bills of Quantities			

	Brought Forward		R	
	<u>FIRE DETECTION AND PROTECTION</u>			
13	Provide the sum of R250,000.00 (two hundred and fifty thousand rands) for the supply and installation of all fire detection and protection equipment complete, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
14	Allow for profit on last item	Item		
15	Allow for attendance on last item	Item		
	<u>MECHANICAL INSTALLATION</u>			
16	Provide the sum of R100,000.00 (one hundred thousand rands) for the mechanical installation and extraction complete, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
17	Allow for profit on last item	Item		
18	Allow for attendance on last item	Item		
	<u>GAS INSTALLATION</u>			
19	Provide the sum of R75,000.00 (seventy five thousand rands) for the gas installation complete, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
20	Allow for profit on last item	Item		
21	Allow for attendance on last item	Item		
	<u>PUMP SYSTEM</u>			
22	Provide the sum of R350,000.00 (Three hundred and fifty thousand rands) for the supply, installation and guarantee of a pump system complete, including all accessories, fittings etc, to be performed by a specialist if required	Item		
23	Allow for profit on last item	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 19 Provisional Sums Tender Bills of Quantities			

	Brought Forward		R	
24	Allow for attendance on last item	Item		
	<u>PLUMBING AND DRAINAGE</u>			
25	Provide the sum of R2,860,000.00 (Two million eight hundred and sixty thousand rands) for the supply, installation and guarantee of all plumbing and drainage related items, to be performed by a specialist if required	Item		
26	Allow for profit on last item	Item		
27	Allow for attendance on last item	Item		
	<u>FURNITURE AND FITOUT</u>			
28	Provide the sum of R1,000,000.00 (One million rands) for the supply and installation of all Furniture and fitout items, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
29	Allow for profit on last item	Item		
30	Allow for attendance on last item	Item		
	<u>SCHOOL SIGNAGE</u>			
31	Provide the sum of R 50,000.00 (Fifty thousand rands) for the supply and installation of all signage to the school, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
32	Allow for profit on last item	Item		
33	Allow for attendance on last item	Item		
	<u>TALKING WALLS</u>			
34	Provide the sum of R 150,000.00 (One hundred and fifty thousand rands) for the supply and installation of talking walls, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
35	Allow for profit on last item	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 19 Provisional Sums Tender Bills of Quantities			

Brought Forward			R	
36	Allow for attendance on last item	Item		
<u>JUNGLE GYMS</u>				
37	Provide the sum of R75,000.00 (Seventy five thousand rands) for the supply and installation of all jungle gym, structures, sand pit play areas to the Grade R location, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
38	Allow for profit on last item	Item		
39	Allow for attendance on last item	Item		
<u>DRINKING FOUNTAINS</u>				
40	Provide the sum of R100,000.00 (One hundred thousand rands) for the supply and installation of drinking fountains, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
41	Allow for profit on last item	Item		
42	Allow for attendance on last item	Item		
<u>LANDSCAPING, FEATURE WORKS, SEATING, BENCHES, PAINTINGS ETC</u>				
43	Provide the sum of R750,000.00 (seven hundred and fifty thousand rands) for the supply and installation of all landscaping, grassing, hardened play areas, feature walls, seating stands, benches, floor patterns / paintings, planter boxes, astroturf floor surfaces, timber floor slats, gardening (including vegetable gardening) requirements, as per Architectural / Engineering specifications, to be performed by a specialist if required	Item		
44	Allow for profit on last item	Item		
45	Allow for attendance on last item	Item		
Carried Forward to Summary of Section No. 1			R	
Section No. 1				
Bill No. 19				
Provisional Sums				
Tender Bills of Quantities				

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Section No	<u>FINAL SUMMARY</u>	Page No		Amount	
	<p style="text-align: right;">Brought Forward</p> <p>Allow an amount of R 3 750 000.00 (Three Million Seven Hundred and Fifty Thousand Rands) for contingencies to be used at the discretion of the Principal Agent / Client and may be deducted in whole or in part</p>	Item	R		
	<p>Sub Total</p> <p>VAT @15%</p>		R R		
	<p style="text-align: right;">Carried to Form of Tender</p> <p>Tender Bills of Quantities</p>		R		