

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
The JBCC Series 2000 Principal Building Agreement (JBCC Edition 4.1 March 2005 PBA and May 2005) prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described in the Notes. The Preliminaries for use with the JBCC Series 2000 Principal Building Agreement (May 2005 edition) prepared by the Joint Building Contracts Committee, 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" Notwithstanding anything to the contrary contained in any of the contract documents including the Principal Building Agreement and the Preliminaries, the provision of the "Preliminaries" as hereinafter set forth shall prevail and shall take precedence			
Carried Forward			R
Section No. 1 Bill No. 1 PRELIMINARIES			

	Brought Forward		R

Carried Forward

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Section No. 1
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Brought Forward		R	
3	Documents (clause 3)F:..... V:..... T:.....	Item	
4	Design responsibility (clause 4)F:..... V:..... T:.....	Item	
5	Employer's agents (clause 5)F:..... V:..... T:.....	Item	
The principal agent shall: - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process			
6	Site representative (clause 6)F:..... V:..... T:.....	Item	
7	Compliance with regulations (clause 7)F:..... V:..... T:.....	Item	
Carried Forward		R	
Section No. 1 Bill No. 1 PRELIMINARIES			

Brought Forward			R
8	Works risk (clause 8) F:..... V:..... T:.....	Item	
9	Indemnities (clause 9)F:..... V:..... T:.....	Item	
10	Works insurances (clause 10) F:..... V:..... T:.....	Item	
11	Liability insurances (clause 11)F:..... V:..... T:.....	Item	
12	Effecting insurance (clause 12)F:..... V:..... T:.....	Item	
13	NO CLAUSE	N/A	
14	Security (clause 14)F:..... V:..... T:.....	Item	
<u>Execution (A15-A23)</u>			
15	Preparation for and execution of the works (clause 15) F:..... V:..... T:.....	Item	
16	Access to the works (clause 16)F:..... V:..... T:.....	Item	
17	Contract instructions (clause 17)F:..... V:..... T:.....	Item	
18	Setting out of the works (clause 18)F:..... V:..... T:..... 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	Item	
Carried Forward			R
Section No. 1 Bill No. 1 PRELIMINARIES			

Brought Forward			R
19	Assignment (clause 19)F:..... V:..... T:..... The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	Item	
20	Nominated subcontractors (clause 20)F:..... V:..... T:.....	Item	
21	Selected subcontractors (clause 21)F:..... V:..... T:..... Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted All amounts allowed under Provisional Amounts are intended to be awarded to Selected and Nominated Subcontractors	Item	
22	Employer's Direct Contractors (clause 22) F:..... V:..... T:.....	Item	
23	Contractor's Domestic Sub-Contractors (Clause 23) F:..... V:..... T:..... <u>Completion (A24-A30)</u>	Item	
24	Practical completion (clause 24)F:..... V:..... T:.....	Item	
25	Works completion (clause 25)F:..... V:..... T:.....	Item	
26	Final completion (clause 26)F:..... V:..... T:.....	Item	
Carried Forward			R
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Brought Forward			R
27	Latent defects liability period (clause 27)F:..... V:..... T:.....	Item	
28	Sectional completion (clause 28)F:..... V:..... T:.....	Item	
29	Revision of date of practical completion (clause 29)F:..... V:..... T:.....	Item	
The removal and replacement of materials and/or workmanship that 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 sum (clause 29.3)			
30	Penalty for non-completion (clause 30)F:..... V:..... T:.....	Item	
<u>Payment (A31 - A35)</u>			
31	Interim payment to the contractor (clause 31)F:..... V:..... T:.....	Item	
32	Adjustment to the contract value (clause 32)F:..... V:..... T:.....	Item	
Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing			
33	Recovery of expense and loss (clause 33)F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Bill No. 1 PRELIMINARIES			

Brought Forward			R
34	Final account and final payment (clause 34)F:..... V:..... T:..... The employer shall not pay any interest on amounts payable to the contractor for one hundred and forty two (142) days after the date of issue of the certificate of practical completion The employer shall, however, pay interest to the contractor at the rate stipulated in clause 34.11 on any amounts payable to the contractor more than one hundred and forty two (142) days after the date of issue of the certificate of practical completion but only for such period as the settlement of the final account is delayed by the non-performance of the principal agent or the employer or his agents. In evaluating non-performance for purposes of this clause a reasonable time shall be allowed to the employer or his agents to respond to any matter brought to his/their attention and which may affect the settlement of the final account	Item	
35	Payment to other parties (clause 35) F:..... V:..... T:..... <u>Cancellation (A36-A39)</u>	Item	
36	Cancellation by employer - contractor's default (clause 36)F:..... V:..... T:.....	Item	
37	Cancellation by employer - loss and damage (clause 37)F:..... V:..... T:.....	Item	
38	Cancellation by contractor - employer's default (clause 38)F:..... V:..... T:.....	Item	
39	Cancellation - cessation of the works (clause 39)F:..... V:..... T:.....	Item	
Carried Forward			R
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Brought Forward

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42.1 CONTRACTING AND OTHER PARTIES

42.1.1

Employer:

Independent Development Trust

Postal address: PO Box 55386
 Polokwane
 0700

Tel : (015) 295 0000

Fax: (015) 295 6559

Physical Address:

22 Hans van Rensburg Street
 2nd Floor
 Polokwane
 0700

42.1.2

Principal Agent:

ZETHU CONSULTING SERVICES

Postal Address:
 Private Bag X9703
 Postnet Suite 90, Polokwane, 0700

Physical Address:
 Stand 56 Broederstroomdrift,
 Deerpark, Tzaneen

Tel 086 110 6521

Fax 086 605 7523

Email admin@zethucs.co.za

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PRELIMINARIES

Brought Forward 42.1.3 Architect: Phenomenal Architects Postal Address: PO Box 68438 Highveld 0169 Physical Address: 199 Doreen Street Colbyn 0083 Tel: 086 111 2431 Fax: 012 430 5291 Email: admin@pheno.co.za 42.1.4 Quantity Surveyor: ZETHU CONSULTING SERVICES Postal address: Physical Address: Tel Fax	R
Carried Forward Section No. 1 Bill No. 1 PRELIMINARIES	R

Brought Forward	R
42.1.5 Agents service: Civil and Structural Engineer Consultant: Auerecon Postal Address: PO Box 3518 Polokwane 0699 Physical Address 8 Watermelon Street Platinum Park, Bendor Polokwane 0699 Tel: 015 287 3802 Fax: 086 604 2744 Email: polokwane@auerecongroup.com 42.1.5 Agents service: 42.1.6 Electrical Engineer: Estrisec (Pty) Ltd Postal Address: Physical Address 5B Aanveil Street Tzaneen 0850 Tel: 015 307 3250 Fax: 086 537 9519 Email: estrisec@gmail.com 42.1.6 Agents service: Mechanical Engineer N/A	
Carried Forward	R
Section No. 1 Bill No. 1 PRELIMINARIES	

Brought Forward	R
<u>42.2 CONTRACT DETAILS</u> 42.2.1 Works Description: Additions and Renovations at Manthe Primary School 42.2.2 Site Description: Ga-Makanye Village, Turfloop, Limpopo 23°91'32.23"S 29°70'99.85"E 42.2.3 Work or installations by direct contractors: N/A 42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only Yes 42.2.5 Date on which possession of the site is intended to be given: To be confirmed 42.2.6 Period for the commencement of the works after the contractor takes possession of the site 10 days 42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day 9 months after contractual commencement date <i>Date</i> <i>Penalty Amount</i> <i>0,01c per R100 of Contract Amount per day</i>	
Carried Forward	R
Section No. 1 Bill No. 1 PRELIMINARIES	

Brought Forward 42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day Section 1 N/A <i>Date</i> N/A <i>Penalty Amount</i> 42.2.9 The law applicable to this agreement shall be that of <i>South Africa (country)</i> <u>42.3 INSURANCES</u> 42.3.1 Contract works insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R Contract Sum + 20%</i> <i>With a deductible of - to be determined by the contractor</i> 42.3.2 Supplementary insurance is required <i>No</i> 42.3.3 Public liability insurance to be effected by: <i>Contractor:</i> <i>For the Sum of R10,000,000.00</i> <i>With a deductible of - to be determined by the contractor</i> <u>42.4 DOCUMENTS</u> 42.4.1 Waivers of contractors lien or right of continuing possession is required <i>No</i> 42.4.2 Number of construction document copies to be supplied to the contractor free of charge: <i>3 Number of</i> Carried Forward Section No. 1 Bill No. 1 PRELIMINARIES	R R
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	Brought Forward		R	
42.4.3	Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: “Standard System of Measuring Builders’ Work”			
42.4.4	On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days			
	<i>The priced bills of quantities must be handed in with the tender</i>			
42.4.5	JBCC Engineering General Conditions are to be included in the contract documents : No			
42.4.6	The contract value is to be adjusted using escalation adjustment indices No			
	Where JBCC CPAP is to be used Base Month			
42.4.7	Details of changes made to the provision of JBCC standard documentation: Refer to standard notes attached to this document in Section C1.2			
	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>			
43	Definition and interpretation (B1.1 - B1.4.6) F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
44	Checking of documents (B2.1)F:..... V:..... T:.....	Item		
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	Section No. 1 Bill No. 1 PRELIMINARIES			

Brought Forward		R	
45	Provisional bills of quantities (B2.2)F:..... V:..... T:.....	N/A	
46	Availability of construction documentation (B2.3) F:..... V:..... T:.....	Item	
47	Interests of agents (B2.4)F:..... V:..... T:.....	Item	
48	Priced documents (B2.5)F:..... V:..... T:.....	Item	
49	Tender submission (B2.6)F:..... V:..... T:.....	Item	
<u>The site (B3)</u>			
50	Defined works area (B3.1)F:..... V:..... T:.....	Item	
51	Geotechnical investigation (B3.2)F:..... V:..... T:.....	Item	
52	Inspection of the site (B3.3)F:..... V:..... T:.....	Item	
	Existing premises occupied (B3.4)F:..... V:..... T:.....		
	Previous work - dimensional accuracy (B3.5)F:..... V:..... T:.....		
	Previous work - defects (B3.6)F:..... V:..... T:.....		
53	Services - known (B3.7)F:..... V:..... T:.....	Item	
54	Services - unknown (B3.8)F:..... V:..... T:.....	Item	
55	Protection of trees etc (B3.9)F:..... V:..... T:.....	Item	
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Section No. 1 Bill No. 1 PRELIMINARIES			

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56	Articles of value (B3.10)F:..... V:..... T:.....	Item	
57	Inspection of adjoining properties etc (B3.11)F:..... V:..... T:.....	Item	
<u>Management of contract (B4)</u>			
58	Management of the works (B4.1) F:..... V:..... T:	Item	
59	Programme for the works (B4.2) F:..... V:..... T:.....	Item	
60	Progress meetings (B4.3)F:..... V:..... T:.....	Item	
61	Technical meetings (B4.4)F:..... V:..... T:.....	Item	
62	Labour and Plant records (B4.5) F:..... V:..... T:.....	Item	
<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
63	Samples of materials (B5.1)F:..... V:..... T:.....	Item	
64	Workmanship samples (B5.2)F:..... V:..... T:.....	Item	
65	Shop drawings (B5.3) F:..... V:..... T:.....	Item	
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Section No. 1 Bill No. 1 PRELIMINARIES			

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66	Compliance with Manufacturer's Instructions (B5.4)				
	F:..... V:.....				
	T:.....	Item			
	<u>Temporary works and plant (B6)</u>				
67	Deposits and fees (B6.1)F:.....				
	V:..... T:.....	Item			
68	Enclosure of the works (B6.2)F:.....				
	V:..... T:.....	Item			
69	Advertising (B6.3)F:.....				
	V:..... T:.....	Item			
70	Plant, equipment, sheds and offices (B6.4)				
	F: V:..... T:	Item			
71	Main notice board (B6.5)F:.....				
	V:..... T:.....	Item			
72	Subcontractors' notice board (B6.6)				
	F:..... V:.....				
	T:.....	Item			
	<u>Temporary services (B7)</u>				
73	Location (B7.1)F:..... V:.....				
	T:.....	Item			
74	Water (B7.2)				
	Option [A] shall apply				
	F:..... V:.....				
	T:.....	Item			
75	Electricity (B7.3)				
	Option [A] shall apply				
	F:..... V:.....				
	T:.....	Item			
Carried Forward					R
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76	Telecommunication facilities (B7.4) F:..... V:..... T:.....	Item		
77	Ablution facilities (B7.5) Option [A] shall apply F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
78	Responsibility for prime cost amounts (B8.1)F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
79	General attendance (B9.1)F:..... V:..... T:.....	Item		
80	Special attendance (B9.2)F:..... V:..... T:.....	Item		
81	Commissioning - Fuel, water and power (B9.3)F:..... V:..... T:.....	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1)F:..... V:..... T:.....	Item		
82	Payment of preliminaries (B10.2) Option [B] shall apply F:..... V:..... T:.....	Item		
83	Adjustment of preliminaries (B10.3) Option [A] shall apply F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 1 PRELIMINARIES			

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Brought Forward	R
12.1.6 Existing premises occupied (B3.4)	
The Tenderer is notified that the school will remain functional during the works. All construction activities are to be programmed around the functioning of the school, and in a manner that does not pose risks to learners, teachers and school staff.	
12.1.7 Previous work - dimensional accuracy (B3.4)	
12.1.8 Previous work - defects (B3.5)	
12.1.9 Services - known (B3.7)	
12.1.10 Protection of trees (B3.9)	
All trees should be protected and only on instruction of the Principal Agent may any trees be removed	
12.1.11 Inspection of adjoining properties (B3.11)	
12.1.12 Enclosure of the works (B6.2)	
12.1.13 Offices (B6.4.3)	
An office for the clerck of works should be provided	
12.1.14 Main notice board (B6.5)	
No	
Carried Forward	R
Section No. 1 Bill No. 1 PRELIMINARIES	

Brought Forward		R	
12.1.15 Subcontractors notice board (B6.6) A notice board is required	No		
12.1.16 Water (B7.2) Alternative Selected: A			
12.1.17 Electricity (B7.3) Alternative selected: A			
12.1.18 Telecommunications (B7.4)			
12.1.19 Ablution facilities (B7.5) Alternative selected: A			
12.1.20 Protection of existing/sectionally occupied works (B11.2)			
12.1.21 Special attendance (B9.2) Subcontractor (1) details: N/A			
12.1.22 Protection of the works (B11.1) N/A			
12.1.23 Disturbance (B11.5) N/A			
12.1.24 Environmental Disturbance (B11.6) N/A			
<u>Post tender information (B12.2)</u>			
12.2.1 Payment of preliminaries Alternative selected: B			
12.2.2 Adjustment of preliminaries Alternative selected: A			
12.2.3 Additional agreed preliminaries items N/A			
Carried Forward		R	
Section No. 1 Bill No. 1 PRELIMINARIES			

Brought Forward			R
<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included			
98	Black economic empowerment and training F:..... V:..... T:.....	Item	
99	Proprietary branded products F:..... V:..... T:.....	Item	
The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative			
100	Contract instructions F:..... V:..... T:.....	Item	
Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor			
101	Labour record F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Bill No. 1 PRELIMINARIES			

	Brought Forward		R
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week		
102	Plant record F:..... V:..... T:.....	Item	
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week		
103	Guarantees F:..... V:..... T:.....	Item	
	Where guarantees are called for, the contractor shall obtain a written guarantee, 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 guarantee shall state that workmanship, materials and installation are guaranteed 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 from the principal agent to do so. This guarantee 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. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement		
104	Overtime F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 PRELIMINARIES		

	Brought Forward		R	
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer			
105	Co-operation of contractor for cost management			
	F:..... V:..... T:.....	Item		
	It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants 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 quantity surveyor 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 will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors			
106	Occupational Health and Safety Specification			
	F:..... V:..... T:	Item		
	Any Principal Contractor entering into a contract with The Developer must achieve an acceptable level of Occupational Health and Safety performance. Refer to "Project Specification" and "Safety, Health and Environmental Evaluation Questionnaire" The contractor to comply with all provisions of the above and to be enforced on all selected and or other sub-contractors, as no claim afterwards will be entertained			
	Carried Forward to Summary of Section No. 1		R	
	Section No. 1			
	Bill No. 1			
	PRELIMINARIES			

Item No			Quantity	Rate	Amount
	<u>SECTION 1</u>				
	<u>BILL NO. 2</u>				
	<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
1	UI19 Registrations	Person	30		
2	Permit Applications with Dept. of Labor e.g. blasting (if applicable)		Item		
3	Economics/ Health/ Hygiene Assessment (Per Employee)	No	30		
4	Training & awareness (non accredited) per employee	No	30		
5	PPE	Person	30		
6	Safety Office (Per Month)	MNTH	15		
7	SHE Rep (Per Month)	MNTH	15		
8	Certification /Compliance (e.g. OHAS 18001)				
		No	1		
9	Insurance Premium & Public indemnity	MNTH	15		
10	Fines and Penalties (if applicable)		Item		
11	Insurance Excess (if applicable)		Item		
12	Legal fees (e.g. contracts)	Person	30		
13	Risk Assessment (internal)		Item		
14	Medical fitness surveillance	Person	30		
15	UIF 2% of salary per employee per month		Item		
16	Welfare facilities in terms of Facilities Regulations	MNTH	15		
	Carried Forward			R	
	Section No. 1				
	Bill No. 2				
	OCCUPATIONAL HEALTH AND SAFETY				

Brought Forward			R
17	Signage	Item	
18	Safety barricades	Item	
19	Site Hoarding & Fencing	Item	
20	First Aid Box	No	1
21	Fire fighter	MNTH	15
22	First Aider	MNTH	15
23	Supervisor in terms of Electrical Installation	MNTH	15
Carried Forward to Summary of Section No. 1			R
Section No. 1			
Bill No. 2			
OCCUPATIONAL HEALTH AND SAFETY			

Carried to Final Summary

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 1</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".			
	<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
	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.			
	<u>PRICES</u>			
	Prices for all filling and carting away of surplus material must make allowance for bulking.			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and the Supplementary Preambles hereunder.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground:</u>			
	The nature of the ground is assumed to be gravel, therefore earth, but possibly interspersed with soft rock.			
	Carried Forward		R	
	Section No. 2 Bill No. 1 EARTHWORKS			

Brought Forward			R
<u>Carting away of excavated material:</u>			
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.			
<u>BULK EXCAVATION, FILLING, ETC.</u>			
<u>Open face excavation in earth over flat site:</u>			
1	Open face excavation.	m3	417
<u>Extra over bulk excavation in earth for excavation in:</u>			
2	Soft rock.	m3	42
3	Hard rock.	m3	21
<u>FILLING</u>			
<u>Filling with approved material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>			
4	Under surface beds	m3	55
<u>EXCAVATION OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
5	Trenches for strip footings	m3	58
6	Holes	m3	45
<u>CARTING AWAY</u>			
<u>Extra over all excavations for carting away:</u>			
7	Surplus material from excavation and/or stockpile on site to a dumping site to be allocated by the contractor.	m3	9
<u>Risk of collapse of excavations:</u>			
8	Sides of trenches not exceeding 1,5m deep.	m2	132
Carried Forward			R
Section No. 2 Bill No. 1 EARTHWORKS			

	Brought Forward			R
9	Sides of bulk excavations not exceeding 1,5m deep.	m2	133	
	<u>Keeping excavations free of water:</u>			
10	Keeping excavations free of all water other than subterranean water.		Item	
	<u>Soil insecticide:</u>			
11	Under floors, etc. Including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming.	m2	361	
12	To bottoms and sides of trenches etc.	m2	130	
	<u>CONCRETE</u>			
	<u>(CPAP FORMULA WORK GROUP NO. 110)</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
13	Strip footings	m3	15	
	<u>High tensile steel reinforcement to structural concrete work:</u>			
14	10mm Diameter bars.	t	1.01	
15	8mm Diameter bars.	t	1.01	
	<u>BRICKWORK IN FOUNDATIONS</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and the Supplementary Preambles hereunder.			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
16	Piers	m3	6	
17	One brick walls	m2	57	
	Carried Forward			R
	Section No. 2			
	Bill No. 1			
	EARTHWORKS			

Brought Forward			R
<u>Brickwork reinforcement</u>			
18	150mm Wide reinforcement built in horizontally	m	521
<u>External face bricks (Prime Cost Amount R 4000.00/1000) pointed with flush horizontal and vertical joints</u>			
19	Extra over brickwork for face brickwork	m2	9
20	Fair cutting at squint quoin or birdsmouth angle	m	480
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 1			
EARTHWORKS			

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill			
<u>Cost of tests</u>			
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 to the approval of the architect. (Test cubes are measured separately).			
<u>Formwork</u>			
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.			
Carried Forward		R	
Section No. 2			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			

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>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25 MPa/19mm Concrete:</u>				
1	Surface beds on waterproofing	m3	21	
2	Slabs including beams and inverted beams	m3	3	
3	Aprons cast in panels to falls	m3	8	
<u>Finishing top surfaces of concrete smooth with a wood float</u>				
4	Aprons to falls	m2	85	
5	Forming 250mm wide segmental channel to falls in concrete including finishing smooth	m2	199	
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
6	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	6.0	
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
7	Surface beds, slabs, etc.	m2	276	
Carried Forward			R	
Section No. 2				
Bill No. 2				
CONCRETE, FORMWORK AND REINFORCEMENT				

Brought Forward			R
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP Work Group No 111)</u>			
<u>Rough Formwork to Sides:</u>			
8	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	132
9	Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m2	3
<u>MOVEMENT JOINTS, ETC.</u>			
<u>Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed.:</u>			
10	Not exceeding 300mm wide.	m	111
<u>REINFORCEMENT (CPAP Work Group No 114) (MEASURED PROVISIONALLY)</u>			
<u>Fabric reinforcement:</u>			
11	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	240
<u>High tensile steel reinforcement to structural concrete work:</u>			
12	10mm Diameter bars.	t	3.51
13	8mm Diameter bars.	t	3.96
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>PREAMBLES</u>			
For preambles see " <u>Model Preambles for Trades</u> " (2008 Edition) and <u>Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Hollow walls etc</u>			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
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 "Brixal" bitumen emulsion waterproofing coating.			
<u>User note:</u>			
The above preamble generally applies for works in hot and humid coastal areas			
<u>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Carried Forward			R
Section No. 2 Bill No. 3 MASONRY			

Brought Forward <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc <u>BLOCKWORK</u> <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa <u>Wall ties for blockwork</u> Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other Blockwork shall comply with SABS 0145 "Concrete Masonry Construction" <u>Blockwork</u> Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole <u>Standard complementary blocks</u> Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary	R
Carried Forward Section No. 2 Bill No. 3 MASONRY	R

Brought Forward			R
<u>DECORATIVE BLOCKS</u>			
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour			
<u>SAMPLES</u>			
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			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
1	Half brick walls.	m2	49
2	Ditto, but in beamfilling.	m2	6
3	Ditto, but in firewall.	m2	49
4	One brick walls.	m2	164
5	Ditto, but in firewall.	m2	15
6	One brick walls of two half brick skins.	m2	70
7	340mm Hollow walls of two half brick skins (no wire ties).	m2	63
8	Piers.	m3	8
<u>BRICKWORK SUNDRIES</u>			
9	Closing 120mm cavities of hollow walls horizontally with one course of brickwork.	m	770
<u>Brickwork reinforcement:</u>			
10	75mm Wide reinforcement built in horizontally.	m	983
11	150mm Wide reinforcement built in horizontally.	m	771
Carried Forward			R
Section No. 2 Bill No. 3 MASONRY			

Brought Forward			R
<u>Prestressed fabricated precast lintels including necessary temporary supports:</u>			
12	110 x 70mm Lintels in lengths not exceeding 3m.	m	11
13	110 x 70mm Lintels in lengths exceeding 3m and not exceeding 4.5m.	m	6
14	Pair of 110 x 70mm Lintels in lengths not exceeding 3m.	m	96
<u>Turning pieces to lintels, etc:</u>			
15	150mm Wide turning piece to lintels etc.	m	8
16	220mm Wide turning piece to lintels etc.	m	18
<u>Galvanised wire ties etc:</u>			
17	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.	No	128
<u>Air bricks etc:</u>			
18	229 x 152mm Terracota airbricks	No	4
<u>FACE BRICKWORK</u>			
<u>Face bricks (Allow a P.C. Amount of R6 500.00 per 1 000 supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u>			
19	Extra over brickwork for face brickwork.	m2	66
20	Extra over brickwork for facing 220 x 220mm piers.	m2	4
21	Extra over brickwork for facing 330 x 330mm piers.	m2	18
22	Extra over brickwork for facing beamfilling.	m2	3
23	230mm Wide sill set sloping and slightly projecting.	m	31
24	Face brick-on-edge header course lintel.	m	30
25	Extra over brickwork for face brick-on-edge header course plinth.	m	45
Carried Forward			R
Section No. 2 Bill No. 3 MASONRY			

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Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm IBR concealed fix Colomet finished steel sheeting and accessories fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees.	m2	467	
	<u>0,6mm Kliplok roof sheeting in cromadek finish</u>			
2	Roof covering with pitch not exceeding 25 degrees.	m2	380	
	<u>0,6mm Colomet flashings:</u>			
3	Ridge capping to suit roof profile.	m	27	
4	Hip capping to suit roof profile.	m	64	
	<u>RAINWATER DISPOSAL</u>			
	<u>Seamless aluminium gutters.</u>			
5	100x 75mm Eaves gutters.	m	53	
6	Extra over gutter for stopped end.	No	3	
7	Extra over gutter for angle.	No	3	
	Carried Forward			
	Section No. 2			
	Bill No. 5			
	ROOF COVERINGS			

R

Brought Forward			R
8	Extra over 100 x 75mm eaves gutter for outlet for 75mm diameter pipe.	No	3
9	75mm Diameter rainwater pipes.	m	3
10	Extra over rainwater pipe for bend.	No	3
11	Extra over rainwater pipe for eaves offset 500mm projection.	No	3
<u>ROOF INSULATION</u>			
<u>'Sisalation 420' or similar approved heavy industrial grade aluminium foil based insulation.:</u>			
12	Insulation laid taut over battens (at approximately 380mm centres) and fixed concurrent with roof covering including galvanised steel straining wires, laps, etc.	m2	847
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 5			
ROOF COVERINGS			

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Brought Forward			R
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>			
<u>Sawn softwood:</u>			
1	114 x 38mm Wall plates.	m	17
<u>Prefabricated timber roof construction complete including purlins, runners, bracing hips, valleys, cleats, purlins, etc., supplied and fixed complete:</u>			
2	Trusses for rectangular shaped building, size overall 26.62 x 8.48m on plan (2 Grade R).	No	2
<u>EAVES, VERGES, ETC.</u>			
<u>Medium density plain fibre-cement fascial and barge boards:</u>			
3	12 x 225mm Fascia and barge boards, including galvanised steel H-profile joiners, etc.	m	74
<u>SKIRTINGS</u>			
<u>Wrought meranti:</u>			
4	19 x 76mm Skirtings including 19mm quadrant bead, nailed.	m	129
5	19 x 50mm Cornice laid flat.	m	65
6	16 x 150mm dado rail.	m	32
<u>FRAMED DOORS, ETC.</u>			
<u>Wrought meranti doors hung to steel frames:</u>			
7	40mm Framed batten door 813 x 2032mm high of top rail and stiles, middle ledge and braces and bottom rail filled in with V-jointed one side boarding.	No	4
Carried Forward			R
Section No. 2 Bill No. 6 CARPENTRY AND JOINERY			

Brought Forward			R
<u>SOLID LAMINATED FLUSH DOORS</u>			
<u>40mm solid laminated flush doors with hardwood veneer and two concealed edges hung to steel frames:</u>			
8	40mm Door 813 x 2032mm high.	No	8
Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 6 CARPENTRY AND JOINERY			R

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
Carried Forward		R	
Section No. 2 Bill No. 7 CEILING PARTITIONS ACCESS FLOORING			

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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 8</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Finishes to ironmongery</u>			
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>"Union"</u>			
Carried Forward			R
Section No. 2 Bill No. 8 IRONMONGERY			

Brought Forward			R
<u>IRONMONGERY FIXED TO DOORS, ETC.</u>			
<u>Bolts and latches:</u>			
1	WC mortice indicator bolt with emergency release.	No	6
<u>LOCKS:</u>			
2	75mm Four lever security lockset with satin chrome furniture.	No	5
<u>DOOR CLOSERS</u>			
<u>Dorma:</u>			
3	TS 68 door closer with parallel arm, bracket fixed to metal.	No	4
<u>NUMERAL AND NAMEPLATES, ETC.</u>			
<u>Clear perspex name plate reverse engraved and enamelled in white lettering 25mm high to suit, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed selftapping screws:</u>			
4	Ditto, but with letters "CLASSROOMS".	No	4
5	Ditto, but with letters "STORE ROOM".	No	4
<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws:</u>			
6	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork.	No	4
7	75 x 150mm High aluminium toilet sign with MALE,DISABLED and/or FEMALE figure screwed to door.	No	8
<u>SUNDRIES</u>			
8	Rubber tipped coathook.	No	6
9	38mm Rubber stop plugged and screwed to wall or floor.	No	12
Carried Forward			R
Section No. 2 Bill No. 8 IRONMONGERY			

Brought Forward			R
10	Nickel plated steel leaf spring door holder with rubber door stop plugged and screwed to floor.	No	4
11	19mm Stainless steel chromium plated towel rail, 600mm long, with end brackets plugged to plastered or tiled wall.	No	3
12	3 x 25mm Brass dividing strip between different floor finishes.	m	35
<u>Chairman Industries or similar approved brushed stainless steel grab rails:</u>			
13	32mm Diameter code DL2 side grab rail, plugged.	No	1
14	32mm Diameter code SL2 rear grab rail, plugged.	No	1
<u>BATHROOM FITTINGS</u>			
<u>Toilet roll holders</u>			
15	Lockable Stainless steel toilet roll holder plugged to wall.	No	6
<u>Soap dispensers:</u>			
16	Wall mounted soap dispenser plugged.	No	4
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>			
<u>Carpet pinning boards in aluminium frame with round plastic corners, pen tray and fixing component all fixed according to manufacturer's instruction.</u>			
17	Pinning board size 2400 x 1200mm high plugged.	No	4
<u>Swing type green chalkboard to comply with CKS-36-1980 or equivalent code of practice, complete with chalk rail as one unit fixed to wall strictly according to manufacturers instruction:</u>			
18	Chalk board size overall 1140mm high x 3600mm wide consisting of 1 x chalkboard 1800mm wide, 2 x chalkboard 900mm wide, 2 x swing type chalkboard 900mm wide.	No	4
Carried Forward			R
Section No. 2 Bill No. 8 IRONMONGERY			

Brought Forward				R
	<u>White board marker board surface wall mounted complete with integrated pen tray according to manufacturers instruction:</u>			
19	White board size 2 x 2400 x 1140mm high.	No	4	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 8				
IRONMONGERY				

Item No		Quantity	Rate	Amount
	<u>SECTION NO.2</u>			
	<u>BILL NO.9</u>			
	<u>STRUCTURAL STEELWORK</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Mild steel welded columns in single lengths with flat section base, top, bearer and connection plates bolted to roof on floors and roof trusses</u>			
1	76 x 76mm x 3.0mm, 2.27m high column	No	32	
	<u>Welded beams in single lengths with flat section bearer and connection plates bolted to 76mm columns</u>			
2	150 x 150mm x 75mm beam	m	16	
	<u>Bolts</u>			
3	High tensile bolts	t	8.00	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	Bill No. 9			
	STRUCTURAL STEELWORK			

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 10</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
Carried Forward			R
Section No. 2 Bill No. 10 METALWORK			

Brought Forward			R
<u>STEEL WINDOWS, DOORS, ETC.</u>			
<u>Standard residential windows:</u>			
1	Window type 14BH, 889 x 457mm high with one opening light.	No	7
2	Window type 14BH, 889 x 1248mm high with one opening light	No	9
3	Window type C2F, 1022 x 949mm high with two opening and one fixed light.	No	26
<u>Standard residential windows with steel burglar bars to fixed lights and opening sashes:</u>			
4	Window type 14BH, 889 x 457mm high with one opening light.	No	7
5	Window type 14BH, 889 x 1248mm high with one opening light.	No	4
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,2mm Rebated frames suitable for half brick walls:</u>			
6	Frame for door 813 x 2032mm high.	No	9
<u>1,2mm Double rebated frames suitable for one brick walls:</u>			
7	Frame for door 813 x 2032mm high.	No	4
8	Frame for door 936 x 2032mm high.	No	1
<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC.</u>			
<u>Steel Louvres</u>			
9	Steel louvre unit according to NTY	No	4
<u>SECURITY GATES</u>			
Carried Forward			R
Section No. 2 Bill No. 10 METALWORK			

Brought Forward		R	
10	<u>Steel security gates:</u>	No	4
	Size 925mm x 1800mm high, as per door schedule. (G12)		
Carried Forward to Summary of Section No. 2		R	
Section No. 2			
Bill No. 10			
METALWORK			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u> <u>BILL NO. 11</u> <u>PLASTERING</u> <u>PREAMBLES</u> <u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u> <u>SUPPLEMENTARY PREAMBLES</u> Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
	<u>SCREEDS</u> 1 22,5mm thick sand cement screed, finished with a steel float and prepared to receive vinyl tiles (elsewhere measured).	m2	240	
	<u>GRANOLITHIC</u>			
	Carried Forward		R	
	Section No. 2 Bill No. 11 PLASTERING			

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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 12</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>WALL TILING</u>			
Carried Forward			R
Section No. 2 Bill No. 12 TILING			

Brought Forward			R
<u>200 x 200 x 6mm "Cercisa Tinte Unite" White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere)</u>			
1	On walls	m2	240
2	On narrow widths	m2	15
3	Fair exposed cutting and fitting around pipe not exceeding 110mm internal diameter	No	10
<u>FLOOR TILING</u>			
<u>350 x 350mm x 8mm Ceramic tiles (PC Amount R150.00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
4	On floors and landings	m2	240
5	Skirting 75mm high	m	123
<u>WALL TILING</u>			
<u>152 x 152 x 5mm Thick white glazed tiles fixed to plaster (elsewhere measured) with and approved tile adhesive to and pointed with white cement to:</u>			
6	Walls in splashbacks.	m2	4
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 12			
TILING			

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 13</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>uPVC pipes and fittings:</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
Carried Forward			R
Section No. 2 Bill No. 13 PLUMBING AND DRAINAGE			

Brought Forward	R
<u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary <u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings	
Carried Forward	R
Section No. 2 Bill No. 13 PLUMBING AND DRAINAGE	

Brought Forward			R
<u>SANITARY PLUMBING</u>			
<u>Unplasticised polyvinyl chloride (uPVC) pipes:</u>			
1	50mm Pipes fixed to walls, etc.	m	27
2	110mm Pipes fixed to walls, etc.	m	5
<u>Extra over uPVC pipes for:</u>			
3	50mm BSP Adaptor.	No	9
4	110mm Straight pan connector.	No	6
5	50mm Bend.	No	2
6	110mm Bend.	No	1
7	110mm Junction.	No	2
8	50mm Access bend.	No	3
9	110mm Access bend.	No	4
10	50mm Access junction.	No	1
11	110mm Access junction.	No	2
12	110mm Access reducing junction.	No	1
<u>Testing:</u>			
13	Allow for testing sanitary plumbing system.	Item	
<u>WATER SUPPLIES</u>			
<u>Internal water supplies:</u>			
Prices for all piping laid in ground, inspection chambers, etc. shall include for excavations, keeping free of water, distributing surplus material on site (carting away has been separately measured) and backfilling in selected material (imported fill where required will be separately measured).			
Carried Forward			R
Section No. 2 Bill No. 13 PLUMBING AND DRAINAGE			

Brought Forward				R
	Holes, chases, etc., are deemed to be included in the descriptions of the pipework.			
	<u>Class O copper pipes:</u>			
14	15mm Pipes fixed to walls, etc.	m	9	
15	Ditto, but 22mm pipes.	m	2	
16	Ditto, but 28mm pipes.	m	3	
	<u>Extra over class O copper pipes for copper to copper capillary fittings:</u>			
17	15mm Pipe fittings.	No	11	
18	22mm Pipe fittings.	No	5	
19	28mm Pipe fittings.	No	3	
	<u>Extra over class O copper pipes for brass capillary fittings:</u>			
20	15mm Brass pipe fittings.	No	5	
21	22mm Brass pipe fittings.	No	3	
22	28mm Brass pipe fittings.	No	3	
	<u>Testing:</u>			
23	Allow for testing water supply system.		Item	
	<u>SANITARY FITTINGS AND GEYSERS</u>			
	<u>Supply and fix the following sanitary fittings, geysers and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required for fixing and building in position, cutting, brackets, clamps, etc., and connecting up pipework and handing over in perfect working order at completion:</u>			
	Carried Forward			R
	Section No. 2 Bill No. 13 PLUMBING AND DRAINAGE			

Brought Forward			R
<u>'Vaal':</u>			
24	"Hibiscus" Ref 7023 white vitreous china wall hung basin, size 510 x 405mm, with stopper to one taphole and fixed to wall.	No	4
25	"Junior" Code 751358 WC suite comprising a white vitreous china pan with trap, matching 6 litre white cistern, Code 712035 complete with lid, fitments and a junior seat fixed to wall.	No	5
26	"Afsan" Code 750100 WC suite comprising a white vitreous china pan with trap, matching Aquasave low level white cistern, Code 712035 complete with lid, fitments and white matching seat fixed to wall.	No	1
27	"Protea Paraplegig" Code 750246 WC suite comprising a white vitreous china pan with trap, matching 9 litre white cistern, Code 710361 complete with lid, fitments and white matching seat fixed to wall.	No	1
<u>'Franke' - grade 304 (18/10) polished stainless steel:</u>			
28	"Curveline Model CVN611" drop-on single end bowl sink, size 800 x 435mm, fixed to cupboard (cupboard by others) with securing clips and sealed with silicone adhesive along edges.	No	3
29	'Model WB 001' wash hand basin, size 520 x 432mm, fixed to wall on one pair mild steel eagle brackets.	No	5
30	415 x 315 x 275mm "Flatback" wall hung bowl urinal with spreader (flushing valve should be included)	No	2
<u>ELECTRIC WATER HEATERS</u>			
<u>'Kwikot':</u>			
31	5 Litre 'Hydroboil' 2kw underbasin electrical water heater.	No	4
32	Drip tray	No	4
<u>TAPS, VALVES, ETC.</u>			
<u>TANKS</u>			
Carried Forward			R
Section No. 2 Bill No. 13 PLUMBING AND DRAINAGE			

Brought Forward			R
<u>JOJO tanks</u>			
33	5000 Litre jojo tank complete with lid including concrete plinth as per engineers details	No	4
<u>'Cobra-Watertech':</u>			
34	15mm "Cobra 108" brass hose bibtap with hose union.	No	4
35	15mm 'Star 106-CP' bibtap.	No	3
36	15mm 'Star 111-CP' raised nose pillartap.	No	5
37	15mm Type '505-21 CP' elbow action pillartap.	No	1
38	15mm 'Capstan CSS-115/044-CP' pillar tap.	No	2
39	15mm Type '1090 Ball-o-flo' ballcock.	No	2
40	Ditto, but 20mm ballcock.	No	5
41	Ditto, but 25mm ballcock.	No	1
42	15mm Type 'P-832 CP' angle regulating valve.	No	5
43	15mm Type '350F CP' flexible connection.	No	5
44	40mm Float valve.	No	5
<u>WASTE UNIONS, TRAPS, ETC.</u>			
<u>'Marley':</u>			
45	32 x 40mm 'Flexitrap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	5
46	40 x 40mm 'Flexitrap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	4
47	Ditto, but combination trap.	No	1
Carried Forward			R
Section No. 2 Bill No. 13 PLUMBING AND DRAINAGE			

Brought Forward			R
<u>'Cobra Watertech':</u>			
48	40mm Chromium plated '316CP' sink waste union complete with plug and chain.	No	2
49	40mm 360 CP bottle trap	No	5
50	32mm Chromium plated '303-CP' slotted basin waste union complete with plug only.	No	2
<u>Floor drains, etc:</u>			
51	'Herbish HB 200 V (H) NW 100' stainless steel grade 304 floor drain with vertical bottom outlet size 240 x 240 x 210mm deep fitted and connected complete.	No	4
<u>FIRE APPLIANCES, ETC.</u>			
<u>Fire hose reels, etc.:</u>			
52	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2
53	4,5kg Dry chemical powder fire extinguisher fixed to wall with meranti backboard, size 520 x 100 x 22mm thick, plugged and screwed to wall complete with hook.	No	4
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 13			
PLUMBING AND DRAINAGE			

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass:</u>			
1	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	63	
	<u>4mm Opaque float glass:</u>			
2	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	4	
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>			
	Carried Forward		R	
	Section No. 2			
	Bill No. 14			
	GLAZING			

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Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 15</u>			
<u>PAINTWORK</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
The contractor's prices for all items throughout this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
Carried Forward			R
Section No. 2 Bill No. 15 PAINTWORK			

Brought Forward			R
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
Supplementary preambles are incorporated in this schedule of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles			
<u>ON FLOATED PLASTER SURFACES</u>			
<u>Prepare surfaces and remove all loose material, apply one coat alkaline resistant pure acrylic filler coat and two coats acrylic PVA paint on:</u>			
1	Interior walls.	m2	194
<u>ON METAL</u>			
<u>Prepare, spot primer defects in pre-primed surfaces with red oxide primer and apply one coat synthetic metal primer, one universal undercoat and one finishing coat of high gloss enamel paint on:</u>			
2	Windows (both sides measured).	m2	23
3	Door frames.	m2	4
4	Burglar gates.	m2	7
5	Burglar bars to windows.	m2	55
6	Structural steel beams and columns.	m2	20
<u>ON WOOD</u>			
<u>Prepare and apply two coats carbolineum on:</u>			
7	Roof timbers at eaves and verges.	m2	10
8	Wall plate.	m2	9
Carried Forward			R
Section No. 2 Bill No. 15 PAINTWORK			

Brought Forward			R
<u>Stop, sand down, prepare and apply two coats polyurethane varnish on:</u>			
9	Exterior doors.	m2	13
10	Skirtings and quadrant bead, rails, etc., not exceeding 300 mm girth.	m	163
<u>Prepare and apply one coat pink wood primer, stop and apply two finishing coats of non-drip semi-gloss polyurethane enamel on:</u>			
11	Interior doors.	m2	37
<u>ON FIBRE-CEMENT</u>			
<u>Prepare and apply one coat zinc chromate to nail heads and H-spline strips, one universal undercoat, stop and apply two finishing coats of eggshell enamel on:</u>			
12	Fascias, bargeboards, etc.	m2	90
<u>PLASTERBOARD</u>			
<u>Prepare, prime nail heads and strips with zinc chromate primer, one universal undercoat and two finishing coats of semi-gloss PVA on:</u>			
13	General surfaces of ceilings.	m2	847
Carried Forward to Summary of Section No. 2			R
Section No. 2 Bill No. 15 PAINTWORK			

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Section No. 2				

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO 1</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".			
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
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.			
<u>PRICES</u>			
Prices for all filling and carting away of surplus material must make allowance for bulking.			
<u>EARTHWORKS (PROVISIONAL)</u>			
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and the Supplementary Preambles hereunder.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground:</u>			
The nature of the ground is assumed to be gravel, therefore earth, but possibly interspersed with soft rock.			
Carried Forward		R	
Section No. 3 Bill No. 1 EARTHWORKS			

Brought Forward			R
<u>Carting away of excavated material:</u>			
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.			
<u>BULK EXCAVATION, FILLING, ETC.</u>			
<u>Open face excavation in earth over flat site:</u>			
1	Open face excavation.	m3	169
<u>Extra over bulk excavation in earth for excavation in:</u>			
2	Soft rock.	m3	123
3	Hard rock.	m3	62
<u>FILLING</u>			
<u>Filling with approved material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>			
4	Under surface beds	m3	140
<u>EXCAVATION OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
5	Trenches for strip footings	m3	239
6	Holes	m3	10
<u>CARTING AWAY</u>			
<u>Extra over all excavations for carting away:</u>			
7	Surplus material from excavation and/or stockpile on site to a dumping site to be allocated by the contractor.	m3	503
<u>Risk of collapse of excavations:</u>			
8	Sides of trenches not exceeding 1,5m deep.	m2	1 370
Carried Forward			R
Section No. 3 Bill No. 1 EARTHWORKS			

Brought Forward			R
9	Sides of bulk excavations not exceeding 1,5m deep.	m2	415
	<u>Keeping excavations free of water:</u>		
10	Keeping excavations free of all water other than subterranean water.		Item
	<u>Soil insecticide:</u>		
11	Under floors, etc. Including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming.	m2	1 437
12	To bottoms and sides of trenches etc.	m2	1 932
	<u>CONCRETE</u>		
	<u>(CPAP FORMULA WORK GROUP NO. 110)</u>		
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>		
	<u>25MPa/19mm concrete</u>		
13	Strip footings	m3	111
	<u>High tensile steel reinforcement to structural concrete work:</u>		
14	10mm Diameter bars.	t	11.70
15	8mm Diameter bars.	t	17.90
	<u>BRICKWORK IN FOUNDATIONS</u>		
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and the Supplementary Preambles hereunder.		
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>		
16	Piers	m3	10
17	One brick walls	m2	346
Carried Forward			R
Section No. 3 Bill No. 1 EARTHWORKS			

Brought Forward			R
<u>Brickwork reinforcement</u>			
18	150mm Wide reinforcement built in horizontally	m	1 730
<u>External face bricks (Prime Cost Amount R 4000.00/1000) pointed with flush horizontal and vertical joints</u>			
19	Extra over brickwork for face brickwork	m2	72
20	Fair cutting at squint quoin or birdsmouth angle	m	20
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 1			
EARTHWORKS			

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill			
<u>Cost of tests</u>			
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 to the approval of the architect. (Test cubes are measured separately).			
<u>Formwork</u>			
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.			
Carried Forward		R	
Section No. 3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT			

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>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>25 MPa/19mm Concrete:</u>				
1	Surface beds on waterproofing	m3	215	
2	Slabs including beams and inverted beams	m3	5	
3	Aprons cast in panels to falls	m3	38	
<u>Finishing top surfaces of concrete smooth with a wood float</u>				
4	Aprons to falls	m2	424	
5	Forming 250mm wide segmental channel to falls in concrete including finishing smooth	m2	424	
<u>TEST BLOCKS</u>				
<u>Test blocks:</u>				
6	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	35.0	
<u>FINISHING TOP SURFACE OF CONCRETE</u>				
<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>				
7	Surface beds, slabs, etc.	m2	1 435	
Carried Forward			R	
Section No. 3 Bill No. 2 CONCRETE, FORMWORK AND REINFORCEMENT				

Brought Forward			R
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP Work Group No 111)</u>			
<u>Rough Formwork to Sides:</u>			
8	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	593
9	Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m2	53
<u>MOVEMENT JOINTS, ETC.</u>			
<u>Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed.:</u>			
10	Not exceeding 300mm wide.	m	789
<u>REINFORCEMENT (CPAP Work Group No 114) (MEASURED PROVISIONALLY)</u>			
<u>Fabric reinforcement:</u>			
11	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	1 435
<u>High tensile steel reinforcement to structural concrete work:</u>			
12	10mm Diameter bars.	t	9.70
13	8mm Diameter bars.	t	8.90
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 2			
CONCRETE, FORMWORK AND REINFORCEMENT			

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Hollow walls etc</u>			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
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 "Brixal" bitumen emulsion waterproofing coating.			
<u>User note:</u>			
The above preamble generally applies for works in hot and humid coastal areas			
<u>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Carried Forward			R
Section No. 3 Bill No. 3 MASONRY			

Brought Forward <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc <u>BLOCKWORK</u> <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa <u>Wall ties for blockwork</u> Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other Blockwork shall comply with SABS 0145 "Concrete Masonry Construction" <u>Blockwork</u> Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole <u>Standard complementary blocks</u> Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary	R
Carried Forward Section No. 3 Bill No. 3 MASONRY	R

Brought Forward			R
<u>DECORATIVE BLOCKS</u>			
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour			
<u>SAMPLES</u>			
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			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
1	Half brick walls.	m2	220
2	Ditto, but in beamfilling.	m2	90
3	Ditto, but in firewall.	m2	145
4	One brick walls.	m2	295
5	Ditto, but in firewall.	m2	175
6	340mm Hollow walls of two half brick skins (no wire ties).	m2	224
7	Piers.	m3	15
<u>BRICKWORK SUNDRIES</u>			
8	Closing 120mm cavities of hollow walls horizontally with one course of brickwork.	m	224
<u>Brickwork reinforcement:</u>			
9	75mm Wide reinforcement built in horizontally.	m	425
10	150mm Wide reinforcement built in horizontally.	m	3 785
<u>Prestressed fabricated precast lintels including necessary temporary supports:</u>			
11	110 x 70mm Lintels in lengths not exceeding 3m.	m	260
Carried Forward			R
Section No. 3 Bill No. 3 MASONRY			

Brought Forward			R
12	110 x 70mm Lintels in lengths exceeding 3m and not exceeding 4.5m.	m	18
13	Pair of 110 x 70mm Lintels in lengths not exceeding 3m.	m	18
<u>Turning pieces to lintels, etc:</u>			
14	150mm Wide turning piece to lintels etc.	m	195
15	220mm Wide turning piece to lintels etc.	m	170
<u>Galvanised wire ties etc:</u>			
16	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.	No	560
<u>Air bricks etc:</u>			
17	229 x 152mm Terracota airbricks	No	20
<u>FACE BRICKWORK</u>			
<u>Face bricks (Allow a P.C. Amount of R6 500.00 per 1 000 supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u>			
18	Extra over brickwork for face brickwork.	m2	756
19	Extra over brickwork for facing 220 x 220mm piers.	m2	6
20	Extra over brickwork for facing 330 x 330mm piers.	m2	110
21	Extra over brickwork for facing beamfilling.	m2	90
22	230mm Wide sill set sloping and slightly projecting.	m	180
23	Face brick-on-edge header course lintel.	m	170
24	Extra over brickwork for face brick-on-edge header course plinth.	m	605
25	Cut face brick-on-edge header course lintel 110mm wide.	m	195
26	Fair raking cutting.	m	110
Carried Forward			R
Section No. 3 Bill No. 3 MASONRY			

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Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls, under cills, etc.	m2	234	
	<u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
2	Under surface beds.	m2	1 435	
	<u>JOINT SEALANTS, ETC.</u>			
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer,etc.</u>			
3	3 x 50mm In saw cut joints in floors.	m	431	
4	15 x 10mm In isolation joints including raking out isolation joint filler.	m	875	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Bill No. 4			
	WATERPROOFING			

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm IBR concealed fix Colomet finished steel sheeting and accessories fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees.	m2	1 794	
	<u>0,6mm Kliplok roof sheeting in cromadek finish</u>			
2	Roof covering with pitch not exceeding 25 degrees.	m2	380	
	<u>0,6mm Colomet flashings:</u>			
3	Ridge capping to suit roof profile.	m	168	
4	Hip capping to suit roof profile.	m	50	
	<u>RAINWATER DISPOSAL</u>			
	<u>Seamless aluminium gutters.</u>			
5	100x 75mm Eaves gutters.	m	598	
6	Extra over gutter for stopped end.	No	40	
7	Extra over gutter for angle.	No	40	
	Carried Forward			
	Section No. 3			
	Bill No. 5			
	ROOF COVERING			

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Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims <u>Joinery:</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
Carried Forward			R
Section No. 3 Bill No. 6 CARPENTRY AND JOINERY			

Brought Forward			R
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>			
<u>Sawn softwood:</u>			
1	114 x 38mm Wall plates.	m	458
<u>Prefabricated timber roof construction complete including purlins, runners, bracing hips, valleys, cleats, purlins, etc., supplied and fixed complete:</u>			
2	Trusses for rectangular shaped building, size overall 40 x 15m on plan (4 Classroom).	No	5
<u>EAVES, VERGES, ETC.</u>			
<u>Medium density plain fibre-cement fascial and barge boards:</u>			
3	12 x 225mm Fascia and barge boards, including galvanised steel H-profile joiners, etc.	m	336
<u>SKIRTINGS</u>			
<u>Wrought meranti:</u>			
4	19 x 76mm Skirtings including 19mm quadrant bead, nailed.	m	790
5	19 x 50mm Cornice laid flat.	m	958
6	16 x 150mm dado rail.	m	530
<u>FRAMED DOORS, ETC.</u>			
<u>Wrought meranti doors hung to steel frames:</u>			
7	40mm Framed batten door 813 x 2032mm high of top rail and stiles, middle ledge and braces and bottom rail filled in with V-jointed one side boarding.	No	20
Carried Forward			R
Section No. 3 Bill No. 6 CARPENTRY AND JOINERY			

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Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
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<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
Carried Forward		R	
Section No. 3 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING			

Brought Forward					R
Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)					
<u>NAILED UP AND SCREW UP CEILINGS</u>					
<u>6,4mm Gypsum plasterboards with H-profile galvanised steel jointing strips:</u>					
1	Ceilings including 38 x 38mm sawn softwood brandering at 450mm centres with cross brandering at 450mm centres and at joints, ends of sheets and at light fittings, etc.	m2	1 435		
2	Extra over ceiling for 600 x 600mm hinged trap door of wrought softwood rebated framing with one sawn softwood cross brander covered with ceiling board and fitted flush in opening, including necessary trimmers all around.	No	20		
<u>INSULATION</u>					
<u>Non-combustible lightweight fibreglass insulation blanket:</u>					
3	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m2	1 435		
Carried Forward to Summary of Section No. 3					R
Section No. 3					
Bill No. 7					
CEILINGS, PARTITIONS AND ACCESS FLOORING					

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 8</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
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<u>Finishes to ironmongery</u>			
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>"Union"</u>			
Carried Forward			R
Section No. 3 Bill No. 8 IRONMONGERY			

Brought Forward			R
<u>IRONMONGERY FIXED TO DOORS, ETC.</u>			
<u>LOCKS:</u>			
1	75mm Four lever security lockset with satin chrome furniture.	No	20
<u>DOOR CLOSERS</u>			
<u>Dorma:</u>			
2	TS 68 door closer with parallel arm, bracket fixed to metal.	No	20
<u>NUMERAL AND NAMEPLATES, ETC.</u>			
<u>Clear perspex name plate reverse engraved and enamelled in white lettering 25mm high to suit, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed selftapping screws:</u>			
3	Ditto, but with letters "CLASSROOM".	No	20
4	Ditto, but with letters "STORE ROOM".	No	20
<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws:</u>			
5	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork.	No	20
<u>SUNDRIES</u>			
6	38mm Rubber stop plugged and srewed to wall or floor.	No	20
7	Nickel plated steel leaf spring door holder with rubber door stop plugged and screwed to floor.	No	20
8	3 x 25mm Brass dividing strip between different floor finishes.	m	18
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>			
Carried Forward			R
Section No. 3 Bill No. 8 IRONMONGERY			

Brought Forward			R
<u>Carpet pinning boards in aluminium frame with round plastic corners, pen tray and fixing component all fixed according to manufacturer's instruction.</u>			
9	Pinning board size 2400 x 1200mm high plugged.	No	40
10	Ditto, but size 4200 x 1200mm high plugged.	No	20
<u>Swing type green chalkboard to comply with CKS-36-1980 or equivalent code of practice, complete with chalk rail as one unit fixed to wall strictly according to manufacturers instruction:</u>			
11	Chalk board size overall 1140mm high x 3600mm wide consisting of 1 x chalkboard 1800mm wide, 2 x chalkboard 900mm wide, 2 x swing type chalkboard 900mm wide.	No	20
<u>White board marker board surface wall mounted complete with integrated pen tray according to manufacturers instruction:</u>			
12	White board size 2 x 2400 x 1140mm high.	No	20
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 8			
IRONMONGERY			

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO.9</u>			
	<u>STRUCTURAL STEELWORK</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers			
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete			
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
	<u>STEEL COLUMNS AND BEAMS</u>			
	<u>Mild steel welded columns in single lengths with flat section base, top, bearer and connection plates bolted to roof on floors and roof trusses</u>			
1	76 x 76mm x 3.0mm, 2.27m high column	No	40	
	<u>Welded beams in single lengths with flat section bearer and connection plates bolted to 76mm columns</u>			
2	150 x 150mm x 75mm beam	m	206	
	<u>Bolts</u>			
3	High tensile bolts	t	6.00	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Bill No. 9			
	STRUCTURAL STEELWORK			

Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 10</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
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<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
Carried Forward		R	
Section No. 3 Bill No. 10 METALWORK			

Brought Forward			R
<u>STEEL WINDOWS, DOORS, ETC.</u>			
<u>Standard residential windows with steel burglar bars to fixed lights and opening sashes:</u>			
1	Window type 14BH, 889 x 1248mm high with one opening light	No	200
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,2mm Double rebated frames suitable for one brick walls:</u>			
2	Frame for door 813 x 2032mm high.	No	20
<u>STEEL ROLLER SHUTTERS, ETC.</u>			
<u>Galvanised steel roller shutters, guides, canopy cover(s), etc., fixed to brick jambs and concrete lintel over:</u>			
<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC.</u>			
<u>Steel Louvres</u>			
3	Steel louvre unit according to NTY	No	10
<u>SECURITY GATES</u>			
<u>Steel security gates:</u>			
4	Size 925mm x 1800mm high, as per door schedule. (G12)	No	20
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 10			
METALWORK			

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Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 12</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
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<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>FLOOR TILING</u>			
Carried Forward			R
Section No. 3 Bill No. 12 TILING			

Brought Forward			R
<u>350 x 350mm x 8mm Ceramic tiles (PC Amount R150.00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
1	On floors and landings	m2	1 888
2	Skirting 75mm high	m	430
Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 12 TILING			R

Item No		Quantity	Rate	Amount
	<u>SECTION 3</u>			
	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades"</u> <u>(2008 Edition) and Supplementary preambles as</u> <u>specified in the Trades</u>			
	<u>TANKS</u>			
	<u>JOJO tanks</u>			
1	5000 Litre jojo tank complete with lid including concrete plinth as per engineers details	No	8	
	<u>FIRE APPLIANCES, ETC.</u>			
	<u>Fire hose reels, etc.:</u>			
2	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	8	
3	4,5kg Dry chemical powder fire extinguisher fixed to wall with meranti backboard, size 520 x 100 x 22mm thick, plugged and screwed to wall complete with hook.	No	20	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Bill No. 13			
	PLUMBING			

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Item No	Quantity	Rate	Amount
<u>SECTION 3</u>			
<u>BILL NO. 15</u>			
<u>PAINTWORK</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
The contractor's prices for all items throughout this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
Carried Forward		R	
Section No. 3 Bill No. 15 PAINTWORK			

Brought Forward			R
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
Supplementary preambles are incorporated in this schedule of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles			
<u>ON FLOATED PLASTER SURFACES</u>			
<u>Prepare surfaces and remove all loose material, apply one coat alkaline resistant primer, one universal undercoat two coats eggshell enamel paint on:</u>			
1	Interior walls.	m2	720
<u>ON METAL</u>			
<u>Prepare, spot primer defects in pre-primed surfaces with red oxide primer and apply one coat synthetic metal primer, one universal undercoat and one finishing coat of high gloss enamel paint on:</u>			
2	Windows (both sides measured).	m2	445
3	Door frames.	m2	61
4	Burglar gates.	m2	73
5	Burglar bars to windows.	m2	230
6	Structural steel beams and columns.	m2	84
<u>ON WOOD</u>			
<u>Prepare and apply two coats carbolineum on:</u>			
7	Roof timbers at eaves and verges.	m2	135
8	Wall plate.	m2	100
Carried Forward			R
Section No. 3 Bill No. 15 PAINTWORK			

Brought Forward			R
<u>Stop, sand down, prepare and apply two coats polyurethane varnish on:</u>			
9	Exterior doors.	m2	40
10	Skirtings and quadrant bead, rails, etc., not exceeding 300 mm girth.	m	605
<u>ON FIBRE-CEMENT</u>			
<u>Prepare and apply one coat zinc chromate to nail heads and H-spline strips, one universal undercoat, stop and apply two finishing coats of eggshell enamel on:</u>			
11	Fascias, bargeboards, etc.	m2	225
<u>PLASTERBOARD</u>			
<u>Prepare, prime nail heads and strips with zinc chromate primer, one universal undercoat and two finishing coats of semi-gloss PVA on:</u>			
12	General surfaces of ceilings.	m2	1 435
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 15			
PAINTWORK			

SECTION SUMMARY - 5 NO x 4 CLASSROOM BLOCK		Page No	Amount	
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Carried to Final Summary			R	
Section No. 3				

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO 1</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".			
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
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.			
<u>PRICES</u>			
Prices for all filling and carting away of surplus material must make allowance for bulking.			
<u>EARTHWORKS (PROVISIONAL)</u>			
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and the Supplementary Preambles hereunder.			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground:</u>			
The nature of the ground is assumed to be gravel, therefore earth, but possibly interspersed with soft rock.			
Carried Forward		R	
Section No. 4 Bill No. 1 EARTHWORKS			

Brought Forward			R
<u>Carting away of excavated material:</u>			
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.			
<u>BULK EXCAVATION, FILLING, ETC.</u>			
<u>Open face excavation in earth over flat site:</u>			
1	Open face excavation.	m3	250
<u>Extra over bulk excavation in earth for excavation in:</u>			
2	Soft rock.	m3	27
3	Hard rock.	m3	14
<u>FILLING</u>			
<u>Filling with approved material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density:</u>			
4	Under surface beds	m3	220
<u>EXCAVATION OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
5	Trenches for strip footings	m3	48
6	Holes	m3	3
<u>CARTING AWAY</u>			
<u>Extra over all excavations for carting away:</u>			
7	Surplus material from excavation and/or stockpile on site to a dumping site to be allocated by the contractor.	m3	110
<u>Risk of collapse of excavations:</u>			
8	Sides of trenches not exceeding 1,5m deep.	m2	304
Carried Forward			R
Section No. 4 Bill No. 1 EARTHWORKS			

Brought Forward			R	
9	Sides of bulk excavations not exceeding 1,5m deep.	m2	96	
	<u>Keeping excavations free of water:</u>			
10	Keeping excavations free of all water other than subterranean water.		Item	
	<u>Soil insecticide:</u>			
11	Under floors, etc. Including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming.	m2	315	
12	To bottoms and sides of trenches etc.	m2	433	
	<u>CONCRETE</u>			
	<u>(CPAP FORMULA WORK GROUP NO. 110)</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
13	Strip footings	m3	26	
	<u>High tensile steel reinforcement to structural concrete work:</u>			
14	10mm Diameter bars.	t	1.31	
15	8mm Diameter bars.	t	2.03	
	<u>BRICKWORK IN FOUNDATIONS</u>			
	The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and the Supplementary Preambles hereunder.			
	<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
16	Piers	m3	14	
17	One brick walls	m2	69	
	Carried Forward			R
	Section No. 4			
	Bill No. 1			
	EARTHWORKS			

Brought Forward			R
<u>Brickwork reinforcement</u>			
18	150mm Wide reinforcement built in horizontally	m	385
<u>External face bricks (Prime Cost Amount R 4000.00/1000) pointed with flush horizontal and vertical joints</u>			
19	Extra over brickwork for face brickwork	m2	14
20	Fair cutting at squint quoin or birdsmouth angle	m	238
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 1			
EARTHWORKS			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill			
<u>Cost of tests</u>			
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 to the approval of the architect. (Test cubes are measured separately).			
<u>Formwork</u>			
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.			
Carried Forward		R	
Section No. 4 Bill No. 2 CONCRETE FORMWORK AND REINFORCEMENT			

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>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25 MPa/19mm Concrete:</u>			
1	Surface beds on waterproofing	m3	32
2	Slabs including beams and inverted beams	m3	1
3	Aprons cast in panels to falls	m3	8
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
4	Aprons to falls	m2	85
5	Forming 250mm wide segmental channel to falls in concrete including finishing smooth	m2	85
<u>TEST BLOCKS</u>			
<u>Test blocks:</u>			
6	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes.	Sets	8.0
<u>FINISHING TOP SURFACE OF CONCRETE</u>			
<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>			
7	Surface beds, slabs, etc.	m2	315
Carried Forward			R
Section No. 4 Bill No. 2 CONCRETE FORMWORK AND REINFORCEMENT			

Brought Forward			R
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III) (CPAP Work Group No 111)</u>			
<u>Rough Formwork to Sides:</u>			
8	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	137
9	Slabs propped up exceeding 1,5m and not exceeding 3,5m high	m2	6
<u>MOVEMENT JOINTS, ETC.</u>			
<u>Two layers of 375 micron dampproof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed.:</u>			
10	Not exceeding 300mm wide.	m	359
<u>REINFORCEMENT (CPAP Work Group No 114) (MEASURED PROVISIONALLY)</u>			
<u>Fabric reinforcement:</u>			
11	Type 395 fabric reinforcement in concrete surface beds, etc.	m2	315
<u>High tensile steel reinforcement to structural concrete work:</u>			
12	10mm Diameter bars.	t	1.31
13	8mm Diameter bars.	t	2.03
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 2			
CONCRETE FORMWORK AND REINFORCEMENT			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 3</u>			
<u>MASONRY</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>BRICKWORK</u>			
<u>Sizes in descriptions</u>			
Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
<u>Hollow walls etc</u>			
Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.			
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 "Brixal" bitumen emulsion waterproofing coating.			
<u>User note:</u>			
The above preamble generally applies for works in hot and humid coastal areas			
<u>Face bricks</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Carried Forward			R
Section No. 4 Bill No. 3 MASONRY			

Brought Forward <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc <u>BLOCKWORK</u> <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa <u>Wall ties for blockwork</u> Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other Blockwork shall comply with SABS 0145 "Concrete Masonry Construction" <u>Blockwork</u> Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole <u>Standard complementary blocks</u> Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary	R
Carried Forward Section No. 4 Bill No. 3 MASONRY	R

Brought Forward			R
<u>DECORATIVE BLOCKS</u>			
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour			
<u>SAMPLES</u>			
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			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar:</u>			
1	Half brick walls.	m2	268
2	Ditto, but in beamfilling.	m2	18
3	One brick walls.	m2	56
4	One brick walls of two half brick skins.	m2	116
5	340mm Hollow walls of two half brick skins (no wire ties).	m2	10
6	Piers.	m3	3
<u>BRICKWORK SUNDRIES</u>			
7	Closing 120mm cavities of hollow walls horizontally with one course of brickwork.	m	4
<u>Brickwork reinforcement:</u>			
8	75mm Wide reinforcement built in horizontally.	m	677
9	150mm Wide reinforcement built in horizontally.	m	691
<u>Prestressed fabricated precast lintels including necessary temporary supports:</u>			
10	110 x 70mm Lintels in lengths not exceeding 3m.	m	41
Carried Forward			R
Section No. 4 Bill No. 3 MASONRY			

Brought Forward			R
<u>Turning pieces to lintels, etc:</u>			
11	150mm Wide turning piece to lintels etc.	m	85
12	220mm Wide turning piece to lintels etc.	m	115
<u>Galvanised wire ties etc:</u>			
13	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.	No	92
<u>Air bricks etc:</u>			
14	229 x 152mm Terracota airbricks	No	6
<u>FACE BRICKWORK</u>			
<u>Face bricks (Allow a P.C. Amount of R6 500.00 per 1 000 supplied and delivered to site) pointed with 6mm square recessed horizontal and vertical joints:</u>			
15	Extra over brickwork for face brickwork.	m2	215
16	Extra over brickwork for facing 220 x 220mm piers.	m2	4
17	Extra over brickwork for facing 330 x 330mm piers.	m2	33
18	Extra over brickwork for facing beamfilling.	m2	16
19	230mm Wide sill set sloping and slightly projecting.	m	24
20	Face brick-on-edge header course lintel.	m	40
21	Extra over brickwork for face brick-on-edge header course plinth.	m	115
22	Cut face brick-on-edge header course lintel 110mm wide.	m	85
23	Fair raking cutting.	m	37
<u>FIBRE CEMENT WINDOW CILLS</u>			
Carried Forward			R
Section No. 4 Bill No. 3 MASONRY			

Brought Forward		R
24	<u>15mm Thick natural grey cills in single length bedded in 4:1 sand cement mortar including metal lugs, etc:</u> 140mm Wide cills set flat and slightly projecting.	27
Carried Forward to Summary of Section No. 4 Section No. 4 Bill No. 3 MASONRY		R

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B)</u>			
1	In walls, under cills, etc.	m2	31	
	<u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
2	Under surface beds.	m2	124	
	<u>JOINT SEALANTS, ETC.</u>			
	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>			
3	3 x 50mm In saw cut joints in floors.	m	37	
4	15 x 10mm In isolation joints including raking out isolation joint filler.	m	62	
	Carried Forward to Summary of Section No. 4			
	Section No. 4			
	Bill No. 4			
	WATERPROOFING			

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO 5</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm IBR concealed fix Colomet finished steel sheeting and accessories fixed to timber purlins (elsewhere):</u>			
1	Roof covering with pitch not exceeding 25 degrees.	m2	394	
	<u>0,6mm Colomet flashings:</u>			
2	Ridge capping to suit roof profile.	m	16	
3	Hip capping to suit roof profile.	m	28	
	<u>RAINWATER DISPOSAL</u>			
	<u>Seamless aluminium gutters.</u>			
4	100x 75mm Eaves gutters.	m	137	
5	Extra over gutter for stopped end.	No	8	
6	Extra over gutter for angle.	No	8	
7	Extra over 100 x 75mm eaves gutter for outlet for 75mm diameter pipe.	No	8	
8	75mm Diameter rainwater pipes.	m	22	
	Carried Forward			
	Section No. 4			
	Bill No. 5			
	ROOF COVERING			

R

Brought Forward			R
9	Extra over rainwater pipe for bend.	No	8
10	Extra over rainwater pipe for eaves offset 500mm projection.	No	8
<u>ROOF INSULATION</u>			
<u>'Sisalation 420' or similar approved heavy industrial grade aluminium foil based insulation.:</u>			
11	Insulation laid taut over battens (at approximately 380mm centres) and fixed concurrent with roof covering including galvanised steel straining wires, laps, etc.	m2	805
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 5			
ROOF COVERING			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 6</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Joinery:</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
Carried Forward			R
Section No. 4 Bill No. 6 CARPENTRY AND JOINERY			

Brought Forward			R
<u>Fixing</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<u>PREFABRICATED ROOF TRUSSES, ETC.</u>			
<u>Sawn softwood:</u>			
1	114 x 38mm Wall plates.	m	63
<u>Prefabricated timber roof construction complete including purlins, runners, bracing hips, valleys, cleats, purlins, etc., supplied and fixed complete:</u>			
2	Trusses for rectangular shaped building, size overall 31.27 x 12.10m on plan (Administration Block).	No	1
<u>EAVES, VERGES, ETC.</u>			
<u>Medium density plain fibre-cement fascial and barge boards:</u>			
3	12 x 225mm Fascia and barge boards, including galvanised steel H-profile joiners, etc.	m	63
<u>SKIRTINGS</u>			
<u>Wrought meranti:</u>			
4	19 x 76mm Skirtings including 19mm quadrant bead, nailed.	m	364
5	19 x 50mm Cornice laid flat.	m	396
6	16 x 150mm dado rail.	m	121
<u>FRAMED DOORS, ETC.</u>			
<u>Wrought meranti doors hung to steel frames:</u>			
7	40mm Framed batten door 813 x 2032mm high of top rail and stiles, middle ledge and braces and bottom rail filled in with V-jointed one side boarding.	No	11
Carried Forward			R
Section No. 4 Bill No. 6 CARPENTRY AND JOINERY			

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Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
Carried Forward		R	
Section No. 4 Bill No. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING			

Brought Forward			R
Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)			
<u>NAILED UP AND SCREW UP CEILINGS</u>			
<u>6,4mm Gypsum plasterboards with H-profile galvanised steel jointing strips:</u>			
1	Ceilings including 38 x 38mm sawn softwood brandering at 450mm centres with cross brandering at 450mm centres and at joints, ends of sheets and at light fittings, etc.	m2	247
2	Extra over ceiling for 600 x 600mm hinged trap door of wrought softwood rebated framing with one sawn softwood cross brander covered with ceiling board and fitted flush in opening, including necessary trimmers all around.	No	3
<u>6mm Fibre-cement plain ceiling boards with H-profile galvanised steel jointing strips:</u>			
3	Ceilings including 38 x 38mm sawn softwood brandering at 450mm centres with cross brandering at 450mm centres and at joints, ends of sheets and at light fittings, etc.	m2	68
4	Extra over ceiling for 600 x 600mm hinged trap door of wrought softwood rebated framing with one sawn softwood cross brander covered with ceiling board and fitted flush in opening, including necessary trimmers all around.	No	1
<u>INSULATION</u>			
<u>Non-combustible lightweight fibreglass insulation blanket:</u>			
5	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m2	315
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 7			
CEILINGS, PARTITIONS AND ACCESS FLOORING			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 8</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Finishes to ironmongery</u>			
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>"Union"</u>			
Carried Forward			R
Section No. 4 Bill No. 8 IRONMONGERY			

Brought Forward			R
<u>IRONMONGERY FIXED TO DOORS, ETC.</u>			
<u>Bolts and latches:</u>			
1	WC mortice indicator bolt with emergency release.	No	4
<u>LOCKS:</u>			
2	75mm Four lever security lockset with satin chrome furniture.	No	8
<u>DOOR CLOSERS</u>			
<u>Dorma:</u>			
3	TS 68 door closer with parallel arm, bracket fixed to metal.	No	5
<u>NUMERAL AND NAMEPLATES, ETC.</u>			
<u>Clear perspex name plate reverse engraved and enamelled in white lettering 25mm high to suit, twice countersunk holed for and tapscrewed to steel door frames or gate framing with chromium plated dome-headed selftapping screws:</u>			
4	3mm Thick x 32mm high plate with letters "KITCHEN".	No	1
5	Ditto, but with letters "PRINCIPAL".	No	1
6	Ditto, but with letters "CLASSROOMS".	No	1
7	Ditto, but with letters "VICE-PRINCIPAL".	No	1
8	Ditto, but with letters "HEAD OF DEPARTMENT".	No	1
9	Ditto, but with letters "PRINTROOM".	No	1
10	Ditto, but with letters "STAFFROOM".	No	1
11	Ditto, but with letters "SICKROOM".	No	1
12	Ditto, but with letters "GENERAL OFFICE".	No	1
13	Ditto, but with letters "STATIONARY STORE".	No	1
Carried Forward			R
Section No. 4 Bill No. 8 IRONMONGERY			

Brought Forward			R
14	Ditto, but with letters "EQUIPMENT STORE".	No	1
15	Ditto, but with letters "STORE ROOM".	No	1
16	Ditto, but with letters "TEACHER'S WORK ROOM".	No	1
17	Ditto, but with letters "PASTORAL CARE".	No	1
<u>Indicator plates countersunk holed for and screwed to door or brickwork with chromium plated dome-headed screws:</u>			
18	190 x 190 x 3mm Thick white perspex international FB2 sign plate with red fire extinguisher symbol plugged to brickwork.	No	1
19	75 x 150mm High aluminium toilet sign with MALE,DISABLED and/or FEMALE figure screwed to door.	No	2
<u>SUNDRIES</u>			
20	Rubber tipped coathook.	No	4
21	38mm Rubber stop plugged and srewed to wall or floor.	No	5
22	Nickel plated steel leaf spring door holder with rubber door stop plugged and screwed to floor.	No	5
23	19mm Stainless steel chromium plated towel rail, 600mm long, with end brackets plugged to plastered or tiled wall.	No	4
24	3 x 25mm Brass dividing strip between different floor finishes.	m	6
<u>BATHROOM FITTINGS</u>			
<u>Toilet roll holders</u>			
25	Lockable Stainless steel toilet roll holder plugged to wall.	No	4
<u>Soap dispensers:</u>			
26	Wall mounted soap dispenser plugged.	No	4
Carried Forward			R
Section No. 4 Bill No. 8 IRONMONGERY			

Brought Forward		R	
<u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC.</u>			
<u>Carpet pinning boards in aluminium frame with round plastic corners, pen tray and fixing component all fixed according to manufacturer's instruction.</u>			
27	Pinning board size 2400 x 1200mm high plugged.	No	2
Carried Forward to Summary of Section No. 4		R	
Section No. 4 Bill No. 8 IRONMONGERY			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 9</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
Carried Forward			R
Section No. 4 Bill No. 9 METALWORK			

Brought Forward			R
<u>STEEL WINDOWS, DOORS, ETC.</u>			
<u>Standard residential windows:</u>			
1	Window type C2F, 1022 x 949mm high with two opening and one fixed light.	No	4
<u>Standard residential windows with steel burglar bars to fixed lights and opening sashes:</u>			
2	Window type E2, 1022 x 645mm high with one opening and one fixed light.	No	4
3	Window type C2F, 1022 x 949mm high with two opening and one fixed light.	No	5
4	Window type D2F, 1022 x 1245mm high with two opening and one fixed light.	No	17
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,2mm Rebated frames suitable for half brick walls:</u>			
5	Frame for door 813 x 2032mm high.	No	10
6	Frame for door 936 x 2032mm high.	No	2
<u>1,2mm Double rebated frames suitable for one brick walls:</u>			
7	Frame for door 813 x 2032mm high.	No	1
8	Frame for door 936 x 2032mm high.	No	1
<u>ALUMINIUM WINDOWS, DOORS, ETC</u>			
The following preambles shall apply to aluminium windows, doors, etc in all respects in so far as they are applicable. Aluminium windows and doors shall be manufactured from extruded L28 aluminium members of 6063-T6, 6261-T6 or 6082-T6 alloy and temper. All corners are to be mechanically cleated. Windows, doors, etc shall be manufactured by "Hulamin Building Systems" or by an approved firm experienced in this type of work and registered with the Association			
Carried Forward			R
Section No. 4 Bill No. 9 METALWORK			

Brought Forward of Architectural Aluminium Manufacturers of South Africa (AAAMSA), and shall meet with the minimum recommended performance requirements as set out by the Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA) in the latest edition of the Selection Guide. Note: All windows, doors etc are to be designed to withstand a wind loading of 1000Pa (1.0kPa) The fittings for all opening sashes shall be substantial and, unless otherwise described, shall be of high quality aluminium alloy finished to match the windows, doors, etc on which they occur. Samples of all fittings shall be supplied to the Principal Agent for approval. Top hung opening sashes shall be hung on two concealed heavy duty stainless steel friction stays and fitted with epoxy powder coated window fasteners. All opening sashes ate to be fitted with approved woolpile weatherseals. Glazing beads Where so described, openings and sashes of windows and doors shall be fitted with approved channel section aluminium glazing beads sufficient in size and profile to suit the method of glazing employed, finished to match the windows, doors, etc and neatly mitred. Screws where necessary shall be of aluminium or 300 Series stainless steel and have pan or raised heads finished to match the beads. Burglar bars Where so described burglar bars shall be 10 x 10mm powder coated aluminium square tubing at 150mm centres in one direction. Finishes Windows, doors, etc described as "anodized" shall be treated with Grade 25 coating thickness. Windows, doors, etc described as "factory painted" shall have an electrostatically applied oven baked polyester paint coating not less than 25 micrometres thick. General Aluminium windows, doors, etc shall include glass as described, fixing in position, sealing around edges externally with approved silicone sealant and protection against damage, deterioration or discolouration by	R
Carried Forward Section No. 4 Bill No. 9 METALWORK	R

Brought Forward			R
	taping with removable tape or covering with temporary casings or motor oil and removing same on completion.		
	The contractor is to measure on site prior to manufacture and to allow for deflection, shrinkage and expansion of the surrounding elements.		
	The contractor shall submit drawings showing details of all sections, etc he proposes to use and these drawings are to be approved by the Principal Agent before manufacture is commenced.		
	<u>Purpose made gloss white powder coated "Interpon D1000" aluminium windows form of standard aluminium sections factory glazed with 4mm clear toughened safety glass (SANS1263-1) and plugged to brickwork or concrete and sealed all round externally at junction with face brickwork, etc with approved silicone sealant, ironmongery to manufacturer's recommendation</u>		
9	Cottage section rolled steel section frame for double door 1524 x 2032mm high including 6mm clear float safety glass.	No	2
10	Window 1525 x 1300mm high with frame and one sash top hung to open out (W5)	No	4
	<u>STEEL ROLLER SHUTTERS, ETC.</u>		
	<u>Galvanised steel roller shutters, guides, canopy cover(s), etc., fixed to brick jambs and concrete lintel over:</u>		
11	Between walls push-up roller shutter for 1510 x 990mm high opening with 75 x 0,8mm thick slats, 75mm wide side guides, ratchet for spring winder, neoprene weather strip to bottom edge and two barrel bolts and with pressed metal canopy cover.	No	1
	<u>STEEL STRONGROOM DOORS, VENTILATORS, ETC.</u>		
	<u>Steel Louvres</u>		
12	Steel louvre unit according to NTY	No	2
Carried Forward			R
Section No. 4 Bill No. 9 METALWORK			

Brought Forward		R	
<u>Strongroom doors etc. suitable for 230mm walls fixed to brickwork :</u>			
13	Strongroom door and frame 900 x 1935 x 90mm thick with a gross mass of 240kg, complete with grip lugs for one brick wall and bolt mechanism secured by a seven lever security key lock and ventilators rail as per specialist.	No	1
<u>SECURITY GATES</u>			
<u>Steel security gates:</u>			
14	Size 3640mm x 2082mm high, as per door schedule. (G08)	No	1
15	Size 2230mm x 2082mm high, as per door schedule. (G07)	No	1
Carried Forward to Summary of Section No. 4		R	
Section No. 4			
Bill No. 9			
METALWORK			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 10</u>			
<u>PLASTERING</u>			
<u>SECTION 6</u>			
<u>BILL NO. 11</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
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Carried Forward			R
Section No. 4 Bill No. 10 PLASTERING			

Brought Forward			R
<u>SCREEDS</u>			
1	22,5mm thick sand cement screed, finished with a steel float and prepared to receive vinyl tiles (elsewhere measured).	m2	236
2	Ditto, but 32,5mm Thick.	m2	79
<u>GRANOLITHIC</u>			
<u>Untinted granolithic on concrete</u>			
3	35mm Thick on floors and walkways	m2	79
<u>INTERNAL PLASTER</u>			
<u>One coat cement plaster steel trowelled on brickwork.</u>			
4	On walls.	m2	1 363
5	On narrow widths.	m2	15
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 10			
PLASTERING			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 11</u>			
<u>TILING</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
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<u>Descriptions</u>			
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
<u>WALL TILING</u>			
Carried Forward			R
Section No. 4 Bill No. 11 TILING			

Brought Forward			R
<u>200 x 200 x 6mm "Cercisa Tinte Unite" White glazed ceramic tiles fixed with adhesive to plaster (plaster elsewhere)</u>			
1	On walls	m2	240
2	On narrow widths	m2	15
3	Fair exposed cutting and fitting around pipe not exceeding 110mm internal diameter	No	10
<u>FLOOR TILING</u>			
<u>350 x 350mm x 8mm Ceramic tiles (PC Amount R150.00/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
4	On floors and landings	m2	298
5	Skirting 75mm high	m	430
<u>WALL TILING</u>			
<u>152 x 152 x 5mm Thick white glazed tiles fixed to plaster (elsewhere measured) with and approved tile adhesive to and pointed with white cement to:</u>			
6	Walls in splashbacks.	m2	5
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 11			
TILING			

Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 12</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>(PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
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<u>uPVC pipes and fittings:</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
Carried Forward		R	
Section No. 4 Bill No. 12 PLUMBING AND DRAINAGE			

Brought Forward	R
<u>Copper pipes:</u> Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary <u>Stainless steel basins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings	
Carried Forward	R
Section No. 4 Bill No. 12 PLUMBING AND DRAINAGE	

Brought Forward			R
<u>SANITARY PLUMBING</u>			
<u>Unplasticised polyvinyl chloride (uPVC) pipes:</u>			
1	50mm Pipes fixed to walls, etc.	m	24
2	110mm Pipes fixed to walls, etc.	m	24
<u>Extra over uPVC pipes for:</u>			
3	50mm BSP Adaptor.	No	3
4	110mm Straight pan connector.	No	2
5	50mm Bend.	No	4
6	110mm Bend.	No	2
7	110mm Junction.	No	3
8	50mm Access bend.	No	4
9	110mm Access bend.	No	3
10	50mm Access junction.	No	3
11	110mm Access junction.	No	3
12	110mm Access reducing junction.	No	2
<u>Testing:</u>			
13	Allow for testing sanitary plumbing system.	Item	
<u>WATER SUPPLIES</u>			
<u>Internal water supplies:</u>			
Prices for all piping laid in ground, inspection chambers, etc. shall include for excavations, keeping free of water, distributing surplus material on site (carting away has been separately measured) and backfilling in selected material (imported fill where required will be separately measured).			
Carried Forward			R
Section No. 4 Bill No. 12 PLUMBING AND DRAINAGE			

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Brought Forward			R
<u>'Vaal':</u>			
24	"Hibiscus" Ref 7023 white vitreous china wall hung basin, size 510 x 405mm, with stopper to one taphole and fixed to wall.	No	2
25	"Afsan" Code 750100 WC suite comprising a white vitreous china pan with trap, matching Aquasave low level white cistern, Code 712035 complete with lid, fitments and white matching seat fixed to wall.	No	2
26	"Protea Paraplegig" Code 750246 WC suite comprising a white vitreous china pan with trap, matching 9 litre white cistern, Code 710361 complete with lid, fitments and white matching seat fixed to wall.	No	1
<u>'Franke' - grade 304 (18/10) polished stainless steel:</u>			
27	"Curveline Model CVN611" drop-on single end bowl sink, size 800 x 435mm, fixed to cupboard (cupboard by others) with securing clips and sealed with silicone adhesive along edges.	No	2
28	'Model ET 102' double washtrough, size 1030 x 440mm.	No	2
29	'Model WB 001' wash hand basin, size 520 x 432mm, fixed to wall on one pair mild steel eagle brackets.	No	2
30	415 x 315 x 275mm "Flatback" wall hung bowl urinal with spreader (flushing valve should be included)	No	1
<u>Precast concrete:</u>			
31	'Vanstone Product No 1411' precast concrete basin, size 1050 x 650 x 340mm high, complete on and including two pedestals.	No	2
<u>ELECTRIC WATER HEATERS</u>			
<u>'Kwikot':</u>			
32	5 Litre 'Hydroboil' 2kw underbasin electrical water heater.	No	1
33	Drip tray	No	1
<u>TAPS, VALVES, ETC.</u>			
Carried Forward			R
Section No. 4 Bill No. 12 PLUMBING AND DRAINAGE			

Brought Forward			R
<u>TANKS</u>			
<u>JOJO tanks</u>			
34	5000 Litre jojo tank complete with lid including concrete plinth as per engineers details	No	2
<u>'Cobra-Watertech':</u>			
35	15mm "Cobra 108" brass hose bibtap with hose union.	No	3
36	15mm 'Star 106-CP' bibtap.	No	4
37	15mm 'Star 111-CP' raised nose pillartap.	No	4
38	15mm Type '505-21 CP' elbow action pillartap.	No	4
39	15mm 'Capstan CSS-115/044-CP' pillar tap.	No	4
40	15mm Type '1090 Ball-o-flo' ballcock.	No	2
41	Ditto, but 20mm ballcock.	No	7
42	Ditto, but 25mm ballcock.	No	1
43	15mm Type 'P-832 CP' angle regulating valve.	No	3
44	15mm Type '350F CP' flexible connection.	No	40
45	40mm Float valve.	No	14
<u>WASTE UNIONS, TRAPS, ETC.</u>			
<u>'Marley':</u>			
46	32 x 40mm 'Flexitrap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	3
47	40 x 40mm 'Flexitrap' butyl rubber deep seal 'P' or 'S' trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	4
48	Ditto, but combination trap.	No	2
Carried Forward			R
Section No. 4 Bill No. 12 PLUMBING AND DRAINAGE			

Brought Forward			R
<u>'Cobra Watertech':</u>			
49	40mm Chromium plated '316CP' sink waste union complete with plug and chain.	No	5
50	40mm 360 CP bottle trap	No	2
51	32mm Chromium plated '303-CP' slotted basin waste union complete with plug only.	No	36
<u>Floor drains, etc:</u>			
52	'Herbish HB 200 V (H) NW 100' stainless steel grade 304 floor drain with vertical bottom outlet size 240 x 240 x 210mm deep fitted and connected complete.	No	3
<u>FIRE APPLIANCES, ETC.</u>			
<u>Fire hose reels, etc.:</u>			
53	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1
54	4,5kg Dry chemical powder fire extinguisher fixed to wall with meranti backboard, size 520 x 100 x 22mm thick, plugged and screwed to wall complete with hook.	No	2
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 12			
PLUMBING AND DRAINAGE			

Item No		Quantity	Rate	Amount
	<u>SECTION 4</u>			
	<u>BILL NO. 13</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preambles are incorporated in this schedule 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 this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
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	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>4mm Clear float glass:</u>			
1	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	25	
	<u>4mm Opaque float glass:</u>			
2	Panes exceeding 0,1m ² and not exceeding 0,5m ² .	m2	7	
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC.</u>			
	Carried Forward		R	
	Section No. 4 Bill No. 13 GLAZING			

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Item No	Quantity	Rate	Amount
<u>SECTION 4</u>			
<u>BILL NO. 14</u>			
<u>PAINTWORK</u>			
<u>PREAMBLES</u>			
<u>For preambles see "Model Preambles for Trades" (2008 Edition) and Supplementary preambles as specified in the Trades</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
The contractor's prices for all items throughout this schedule of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
This bill is measured provisionally and will be subject to re-measure when the work or a portion thereof is complete. It is expected of the contractor to be able to demonstrate how he derived at the quantities and in cases where it is not possible to measure the work on completion due to cover up; the contractor must provide signed off site records proving such claims			
<u>Previously painted plastered surfaces</u>			
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
<u>Previously painted wood surfaces</u>			
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			
Carried Forward		R	
Section No. 4 Bill No. 14 PAINTWORK			

Brought Forward			R
<u>Previously painted metal surfaces</u>			
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
Supplementary preambles are incorporated in this schedule of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles			
<u>ON FLOATED PLASTER SURFACES</u>			
<u>Prepare surfaces and remove all loose material, apply one coat alkaline resistant pure acrylic filler coat and two coats acrylic PVA paint on:</u>			
1	Interior walls.	m2	529
<u>ON METAL</u>			
<u>Prepare, spot primer defects in pre-primed surfaces with red oxide primer and apply one coat synthetic metal primer, one universal undercoat and one finishing coat of high gloss enamel paint on:</u>			
2	Windows (both sides measured).	m2	47
3	Door frames.	m2	9
4	Burglar gates.	m2	23
5	Burglar bars to windows.	m2	31
6	Structural steel beams and columns.	m2	13
<u>ON WOOD</u>			
<u>Prepare and apply two coats carbolineum on:</u>			
7	Roof timbers at eaves and verges.	m2	12
8	Wall plate.	m2	14
Carried Forward			R
Section No. 4 Bill No. 14 PAINTWORK			

Brought Forward			R
<u>Stop, sand down, prepare and apply two coats polyurethane varnish on:</u>			
9	Exterior doors.	m2	16
10	Skirtings and quadrant bead, rails, etc., not exceeding 300 mm girth.	m	130
<u>Prepare and apply one coat pink wood primer, stop and apply two finishing coats of non-drip semi-gloss polyurethane enamel on:</u>			
11	Interior doors.	m2	11
<u>ON FIBRE-CEMENT</u>			
<u>Prepare and apply one coat zinc chromate to nail heads and H-spline strips, one universal undercoat, stop and apply two finishing coats of eggshell enamel on:</u>			
12	General surfaces of ceilings.	m2	24
13	Fascias, bargeboards, etc.	m2	42
<u>PLASTERBOARD</u>			
<u>Prepare, prime nail heads and strips with zinc chromate primer, one universal undercoat and two finishing coats of semi-gloss PVA on:</u>			
14	General surfaces of ceilings.	m2	218
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 14			
PAINTWORK			

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Item No		Quantity	Rate	Amount
	<u>SECTION 6</u>			
	<u>BILL NO. 1</u>			
	<u>ENVIRO-LOO TOILETS</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Where applicable the Contractor is referred to the relevant sections of SABS1200 for the full specification, meaning and implications of the work to be executed			
	<u>INSTALLATION ONLY OF ENVIRO LOO AT MMANTHE PRIMARY SCHOOL</u>			
	For preambles refer to "General Specification of Labour and Material and Methods to be used PW371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Where applicable the Contractor is referred to the relevant sections of SABS1200 for the full specification, meaning and implications of the work to be executed			
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	400	
2	Pit	m3	190	
	<u>Extra over excavations other than bulk in earth for excavation in:</u>			
3	Soft rock	m3	59	
4	Hard rock	m3	30	
	<u>CARTING AWAY</u>			
	Carried Forward		R	
	Section No. 5			
	Bill No. 1			
	ENVIRO LOO TOILETS			

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	184
<u>Risk of collapse of excavations other than bulk</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	897
<u>KEEPING EXCAVATION FREE OF WATER</u>			
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item	
<u>EARTH FILLING, ETC</u>			
<u>Filling with material from excavations compacted to a density of at least 95% Mod AASHTO maximum density</u>			
8	Backfilling to trenches, holes, etc	m3	270
9	Under floors, steps, paving, etc	m3	284
<u>COMPACTION</u>			
<u>Compaction of surfaces</u>			
10	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%	m2	315
<u>SOIL POISONING</u>			
<u>Approved brand of anti-termite soil poisoning applied by Registered Pest Control company and guaranteed against termite infestation for ten years:</u>			
11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	315
12	To bottoms and sides of trenches etc	m2	162
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15MPa/20mm concrete</u>			
13	Surface blinding under footings and bases	m3	78
<u>REINFORCED CONCRETE</u>			
<u>15MPa/20mm concrete</u>			
14	Surface beds in holes	m3	17
15	Surface beds cast in panels on waterproofing	m3	30
16	Aprons cast in panels	m3	24
17	Ramps	m3	18
18	Extra over concrete in surface beds for thickening 85mm deep and approximately 400mm wide at top and tapering to 300mm wide at the bottom, including excavation and preparing ground or earth filling	m	372
19	Thickening down edge of aprons etc 150mm deep (net) x 250mm wide extreme, including preparing ground or earth filling	m	54
<u>REINFORCED CONCRETE</u>			
<u>25MPa/19mm concrete</u>			
20	Slabs including beams and inverted beams	m3	58
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/20mm concrete</u>			
21	Strip footings	m3	51
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
<u>CONCRETE TEST CUBES</u>			
22	Prepare set of three 150 x 150 x 150mm concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)	No	15
<u>FINISHING TOP SURFACE OF CONCRETE</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
23	Surface beds, slabs, etc	m2	315
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Rough formwork to sides:</u>			
24	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	341
<u>Permanent formwork to soffits:</u>			
25	Slabs propped up not exceeding 1.5m high	m2	45
<u>MOVEMENT JOINTS</u>			
<u>Two layers tempered masonite slip joints between horizontal concrete and brick surfaces including graphite grease inbetween</u>			
26	Not exceeding 300mm wide	m	142
<u>Saw cut joints</u>			
27	6 x 25 mm Saw cut joint in top of concrete	m	50
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High tensile steel reinforcement to structural concrete work</u>			
28	12mm Diameter bars	t	3.31
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
	<u>Fabric reinforcement</u>		
29	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	341
30	Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	113
	<u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u>		
	<u>Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>		
31	One brick walls in holes	m2	333
32	One brick walls	m2	51
	<u>SUPERSTRUCTURE</u>		
	<u>Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>		
33	One brick walls	m2	215
	<u>Brickwork of NFP bricks in class II mortar</u>		
34	Half brick walls	m2	330
35	Half brick walls in beamfilling	m2	48
36	One brick walls	m2	118
	<u>BRICKWORK SUNDRIES</u>		
	<u>Brickwork reinforcement</u>		
37	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	557
38	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	680
	Carried Forward		R
	Section No. 5		
	Bill No. 1		
	ENVIRO LOO TOILETS		

Brought Forward				R
	<u>Prestressed concrete lintels including temporary supports</u>			
39	110 x 75mm Lintels in lengths not exceeding 3m	m	25	
	<u>Turning pieces</u>			
40	110mm Wide turning piece to lintels etc	m	35	
<u>FACE BRICKWORK</u>				
	<u>"Nebraska" face bricks pointed with recessed horizontal and vertical joints</u>			
41	Extra over brickwork for face brickwork	m2	442	
42	Extra over brickwork in beamfillings for face brickwork	m2	48	
43	Half brick walls pointed on both sides	m2	69	
44	Extra over brickwork for face brick on edge header course lintel in cement mortar and pointing both sides and 220mm wide on soffit	m	55	
45	Fair cutting and fitting around pipe not exceeding 100mm diameter (Provisional)	No	48	
	<u>"Terracotta Satin" face bricks pointed with recessed horizontal and vertical joints</u>			
46	Extra over brickwork for face brickwork in foundations (provisional)	m2	74	
	<u>"Nebraska" face brick-on-edge header course copings, cills etc. pointed with recessed joints on all exposed faces</u>			
47	Coping on top of one brick wall	m	13	
48	115mm Wide single cant or bullnose edge cill set sloping and slightly projecting in cement mortar	m	13	
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
Carried Forward				R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS				

Brought Forward			R
	<u>One layer of 375 micron "Gunplas Brickgrip" or equal approved damp proof course</u>		
49	In walls	m2	60
<u>DAMPPROOFING UNDER SURFACE BEDS</u>			
	<u>One layer of 250 micron "Gunplas U.S.B. Green" or equal approved plastic sheeting</u>		
50	Under surface beds	m2	341
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Klip-Lok Light Industrial" or equal approved galvanised troughed sheet steel with "Chromadek" or equal approved finish one side, fixed to roof members as described complete under a five year guarantee by an approved firm of Specialists, all in accordance with the materials supplied and methods employed by the Manufacturer</u>		
51	Roof covering with a pitch not exceeding 25 degrees	m2	389
52	Ridge covering 220mm girth	m	39
53	Hip capping 320mm girth	m	35
<u>ROOFS, ETC</u>			
<u>Prefabricated roof trusses</u>			
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward <u>Plate nailed prefabricated roof truss construction, including hoisting up and fixing approximately 3m above floor level (roof ties elsewhere) and maintaining trusses in position, including beams, purlins, wall plates, bracing, connectors, wire ties, metal shoes, etc</u> The following is applicable in respect of roof trusses: (a) All the roof trusses to be at average 1200mm centres and constructed for a 17,0 or 20,0 degree pitch unless otherwise stated Roof covering consist of "IBR" profile or "Kliplok" profile metal roof sheets on 50 x 76mm SA Pine purlins at 800mm c/c. Ceilings consist of 6,0mm fibre-cement ceiling boards nailed up ceilings (b) All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take concrete roof tiles, purlins and suspended ceilings. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.	R
Carried Forward Section No. 5 Bill No. 1 ENVIRO LOO TOILETS	R

Brought Forward			R
	(c) Unless otherwise described all rafter feet are to extend 600mm beyond the length of the tie beam, with ends twice splay cut (d) The design, manufacture and transportation of the roof trusses, bracing etc. shall be under the control of a registered Engineer (in accordance with the draft SABS Code of Practice for the Design of Timber Structure) and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction Trusses must further be in accordance with SABS 0163 as well as the additional requirements of PW371 and must be approved by the Representative/Agent. The manufacturer of the trusses shall supply a written guarantee that the trusses are designed, manufactured and erected to support the roof covering specified. The guarantee shall be valid for a period of 10 (ten) years. (e) The tenderer's attention is drawn to the fact that the detail drawings included at the back of these Bills of Quantities only represents the overall size and bearing points of the trusses and not the required design		
54	Roof construction supplied and erected complete for Five toilet enviro-loo block	No	9
	<u>SUNDRIES</u>		
55	10mm Diameter galvanised wire tie 10mm girth wrapped around rafter and purlin with ends tied together	No	28
	<u>EAVES, VERGES, ETC</u>		
	<u>"Everite Nutec" or equal approved pressed fibre cement</u>		
56	19 x 200mm Fascia or barge boards with high density plain finish, butt jointed with fascia jointing plates fixed to mild steel trusses with corrosion proof gutter bolts at maximum 1000mm centres	m	220
	<u>DOORS</u>		
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
	<u>Wrot meranti hung to steel frames</u>		
57	44mm Framed ledged and braced batten door 914 x 2032mm high of 44 x 100mm top rail and stiles, 20 x 100mm bottom rail and 20 x 100mm middle ledge and braces, filled in with 20 x 76mm tongued and grooved V-jointed one side boarding and covered on other side with 4mm plywood with hardwood veneer to match door let into and including rebates all round and splayed 50 x 76mm weather bar (D1,D01)	No	18
	<u>"TDM Alpha Solid" or equal approved solid laminated flush doors with masonite veneer on both sides and with wrought hardwood concealed vertical edge strips hung to steel frames</u>		
58	40mm Door 936 x 2032mm high (D2)	No	38
	<u>LOUVRE PANELS</u>		
	<u>"Everite FC77" or equal approved pressed fibre-cement louvre panels with insect gauze with 76 x 50 x 38mm sawn softwood framing and 12mm fibre cement louvre blades welded to frame</u>		
59	Triangular gable vent panel 2500 wide x 550mm high extreme with one vertical support	No	9
	<u>NAILED UP CEILINGS</u>		
	<u>6mm "Cladit" or equal approved pressed fibre-cement boards with H-type pressed steel jointing strips</u>		
60	Ceilings including 38 x 38mm sawn softwood bandering at 400mm centres.	m2	341
	<u>Gypsum plasterboard cornices</u>		
61	75mm Coved cornices	m	470
	<u>POLISH, SEALERS, ETC</u>		
62	Scrub and rinse with neutral floor detergent "SABS 825" on vinyl flooring	m2	341
	<u>LOCKS</u>		
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
	<u>"Union" or equal approved</u>		
63	"UN 337000000000" 70mm brass padlock	No	56
	<u>"Dorma" or equal approved</u>		
64	Code D037D Stainless steel euro-profile cylinder deadlock	No	38
<u>PULL HANDLES</u>			
	<u>"Solid" or equal approved</u>		
65	Code 472/740/C91 "Waterbok" lever handle on back plate	No	38
<u>PUSH PLATES AND KICKING PLATES</u>			
	<u>"Stainless Steel"</u>		
66	0,9mm Thick x 200mm wide satin finish stainless steel kick plates in varying lengths to single doors	m	25
<u>DOOR CLOSERS</u>			
	<u>"Dorma" or equal approved</u>		
67	Code 737 3-5 Door closer	No	56
<u>LETTERS, NAMEPLATES, ETC</u>			
	<u>"Solid" or equal approved</u>		
68	AL5022-E11AS 150 x 150mm natural anodised aluminium indicator plate with engraved female symbol	No	18
<u>BATHROOM ACCESSORIES</u>			
	<u>"Franke Steel" or equal approved</u>		
69	Code STR x 600 type 359700 Paper towel dispenser fixed in position	No	18
70	Code BS618 Stainless steel liquid soap dispenser fixed in position	No	18
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
	<u>"Stainless Steel Design" or equal approved</u>		
71	Code KB26, 300 x 300 x 300 x 80mm Stainless steel dog leg side grab rail fixed in position	No	9
72	Code KB18, 800 long x 150mm Projecting stainless steel straight grab rail fixed in position	No	9
<u>TOILET PAPER HOLDERS ETC.</u>			
	<u>"Franke Steel" or equal approved</u>		
73	Code 359808 type CHRX 672 Stainless steel toilet roll holder with spindle system fixed in position	No	18
<u>SUNDRIES</u>			
	<u>"Dorma" or equal approved</u>		
74	Code DDS-NP-018 Nickel plated door stop plugged and screwed to wall or floor	No	18
<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1.2mm Rebated pressed steel door frames suitable for half brick walls</u>		
75	Frame for door 813 x 2032mm high	No	38
	<u>1.2mm Rebated pressed steel door frames suitable for one brick walls</u>		
76	"NTY 914 Combi" Frame for door 914 x 2032mm high with single gate 914 x 2032mm high of 25 x 25 x 2mm hollow square section frame and two 25 x 25 x 2mm hollow square section horizontal middle rails with 12 x 12mm square section vertical rails at 100mm centres and with locking bolt and eye suitable for padlock and three hinges welded to steel doorframe (D1)	No	18
<u>STEEL WINDOWS</u>			
	<u>Approved residential windows</u>		
77	Window type NC1, size 533 x 949mm high (W1)	No	38
<u>SCREEDS</u>			
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
	<u>Cement plaster screeds steel trowelled on concrete</u>		
78	30mm Thick on floors and landings	m2	341
	<u>RAINWATER DISPOSAL</u>		
	<u>0,4mm Galvanised sheet iron</u>		
79	100 x 100mm Eaves gutters	m	193
80	Extra over 100x 150mm eaves gutter for stopped end	No	16
81	Extra over 100 x 150mm eaves gutter for outlet for 75mm pipe	No	16
82	75 x 100mm Diameter rainwater pipes	m	62
83	Extra over 75 x 100 rainwater pipe for shoe	No	16
	<u>SOIL DRAINAGE</u>		
	<u>uPVC pipes for underground installations</u>		
84	110mm Pipes vertically or ramped to cleaning eyes (no excavation)	m	17
85	110mm Pipes in and including trenches not exceeding 1m deep	m	17
	<u>Extra over uPVC pipes for fittings</u>		
86	110mm Bend	No	18
87	110mm Rodding eye	No	18
	<u>uPVC Gulleys</u>		
88	110mm Dished gulley trap assembly with head, grid and concrete surround not exceeding 750mm deep	No	9
	<u>Sundries</u>		
89	Testing drainage pipe system	Item	
	<u>SANITARY FITTINGS</u>		
	Carried Forward		R
	Section No. 5		
	Bill No. 1		
	ENVIRO LOO TOILETS		

Brought Forward			R
	<u>"Enviro Options" or equal approved</u>		
90	"VIP200" Ceramic pan complete with lid, seat, footpiece and fitments	No	38
	<u>"Vaal" or equal approved</u>		
91	510 x 405mm "Hibiscus" code 7023 wall hung type ceramic wash hand basin with two tapholes, integrated overflow and 32mm code 309-32 anti-theft plug fixed on and including two code 8448ZO cast iron brackets with 10mm diameter bolts	No	18
<u>WASTE UNIONS ETC</u>			
	<u>"Cobra Watertech" or equal approved</u>		
92	32mm Cobra no 301 waste union	No	18
	<u>"Cobra Watertech" or equal approved</u>		
93	32mm Chromium plated bottle trap	No	18
<u>TAPS, VALVES ETC</u>			
	<u>"Cobra Watertech" or equal approved</u>		
94	15mm "404 Carina" no.114 CP basin pillar tap	No	36
95	15mm 3328ST CP underwall stoptap	No	18
<u>SANITARY PLUMBING</u>			
	<u>uPVC pipes for above ground installations</u>		
96	50mm Pipes	m	90
97	110mm Pipes	m	90
	<u>Extra over 50mm diameter uPVC piping for above ground fittings</u>		
98	Bend	No	72
99	Access junction	No	38
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
<u>Extra over 110mm diameter uPVC piping for above ground fittings</u>			
100	Bend	No	38
101	Access bend	No	38
102	Junction	No	38
103	Access junction	No	38
104	Straight pan connector	No	38
105	Two way PVC vent valve	No	38
<u>Gratings, covers, etc</u>			
<u>"Enviro Options" or equal approved</u>			
106	Cast iron drying plates built into brick walls of 935 x 1830mm chambers (chambers elsewhere measured)	No	38
<u>Sundries</u>			
107	Testing waste pipe system	Item	
<u>WATER SUPPLIES</u>			
<u>Class I thin wall hard drawn copper pipes and fittings with capillary soldered type connections</u>			
108	15mm Pipes chased into brick walls	m	23
<u>Extra over class I copper pipes for soldered capillary fittings</u>			
109	15mm Fittings	No	25
<u>Sundries</u>			
110	Testing water pipe system	Item	
<u>FLUE PIPES ETC</u>			
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

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Brought Forward			R
<u>Prepare, touch up primer and apply one coat "Dulux" steel primer one coat "Dulux" universal undercoat and three coats "Dulux Dura 100" high gloss enamel paint</u>			
119	On pressed steel door frames	m2	63
120	On steel windows (both sides measured)	m2	62
121	On eaves gutters and down pipes not exceeding 300 mm girth	m	200
<u>PAINT ON WOOD</u>			
<u>Two coats carbolineum wood preservative</u>			
122	On roof timbers at eaves and verges	m2	40
<u>Prepare and apply one coat "Dulux" wood primer two coats "Dulux" universal undercoat and three coats "Dulux" eggshell enamel paint</u>			
123	On doors	m2	201
<u>RAINWATER HARVESTING TANK AND PLINTH</u>			
<u>Earthworks</u>			
124	Excavate in earth not exceeding 2m deep for footings	m3	90
125	Surplus material from excavations to a dumping site to be located by the contractor	m3	45
126	Risk of collapse to sides of excavations	m2	171
127	Backfilling to trenches, holes, etc	m3	207
<u>25MPa/20mm reinforced concrete</u>			
128	Bases	m3	45
129	Tank bases	m3	27
<u>Fabric reinforcement</u>			
130	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	341
Carried Forward			R
Section No. 5 Bill No. 1 ENVIRO LOO TOILETS			

Brought Forward			R
	<u>Loadbearing brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>		
131	One brick walls	m2	46
	<u>"Atlas Plastics" or other approved tanks</u>		
132	"Atlas Plastics" or equal approved rotomoulded polyethylene water tank (code: 2103AP), size 1700mm x 1500mm diameter, 2 500 litre capacity, connected to 2 x 38mm threaded inlet, outlet and overflow tank connectors including 450mm diameter manhole lid with three self tapping screws.	No	9
Carried to Final Summary			R
Section No. 5			
Bill No. 1			
ENVIRO LOO TOILETS			

Item No		Quantity	Rate	Amount
	<u>SECTION 8</u>			
	<u>BILL NO. 1</u>			
	<u>WATER RETICULATION (PROVISIONAL)</u>			
	<u>STANDARD PREAMBLES</u>			
	The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill			
	<u>WATER SUPPLIES</u>			
	<u>HDPE Type PE100 PN12.5 pipes to comply with SABS ISO 4427 (in minimum 12m lengths) with butt-welded joints</u>			
1	40mm Pipes laid in and including trenches not exceeding 1m deep	m	151	
2	50mm Pipes laid in and including trenches not exceeding 1m deep	m	82	
	<u>Extra over HDPE pipes for butt-welded fittings</u>			
3	40 x 20mm Reducer	No	1	
4	50 x 40mm Reducer	No	1	
5	40mm Elbow	No	8	
6	50mm Elbow	No	8	
7	40mm 90 degree bend	No	13	
8	50mm 90 degree bend	No	10	
9	40mm Tee	No	3	
10	50mm Tee	No	3	
11	40mm Adaptor coupling	No	3	
	Carried Forward		R	
	Section No. 6			
	Bill No. 1			
	WATER RETICULATION			

Brought Forward			R
12	50mm Adaptor coupling	No	3
<u>HDPE Type PE100 PN10 sleeve pipes to comply with SABS ISO 4427 with butt welded joints</u>			
13	110mm Pipes (no excavation)	m	10
<u>Extra over HDPE pipes for butt welded fittings</u>			
14	40mm Elbow	No	3
15	50mm Elbow	No	3
<u>Taps, valves, etc</u>			
16	20mm Brass garden tap with hose connection	No	1
17	25mm 1001/125RB full way gate valve	No	2
18	40mm 1001/125RB full way gate valve	No	2
<u>Class 9 uPVC pressure pipes</u>			
19	25mm Pipes laid in and including trenches not exceeding 1m deep, bedding, backfilling, compaction and disposal of excavated material	m	5
20	25mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep, bedding, backfilling compaction and disposal of excavated material	m	125
21	50mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep, bedding, backfilling compaction and disposal of excavated material	m	30
<u>Extra over uPVC pressure pipes for uPVC solvent welded pressure fittings</u>			
22	25mm x 90 degrees bend	No	2
23	25mm Tee	No	2
24	25mm Steel to HDPE adaptor	No	2
25	25mm Copper to HDPE adaptor	No	2
Carried Forward			R
Section No. 6 Bill No. 1 WATER RETICULATION			

Brought Forward			R
<u>Galvanized steel pipes</u>			
26	20mm Stand pipes	m	5
<u>Sundries</u>			
27	Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in "soft rock"	m3	5
28	Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in "hard rock"	m3	3
29	Class C (15 MPa/20) concrete in thrust blocks at bends, tees, etc. including necessary extra excavation, formwork, etc	m3	2
30	150 x 150mm Cast iron stopcock box, including brick chamber below exceeding 500mm and not exceeding 750mm deep internally	No	2
31	530 x 530mm Valve chamber exceeding 750mm and not exceeding 1000mm deep internally including cover and frame	No	2
<u>Testing</u>			
32	Testing water and fire service pipe system	Item	
<u>FIRE APPLIANCES, PEDESTALS, ETC.</u>			
<u>DRINKING FOUNTAIN</u>			
33	Brick wall drinking fountain, including earthworks and foundations, pipework for water supply, push button plates and V drain channelling spillage to the V-drain	No	4
<u>Fire appliances etc</u>			
34	80 x 65mm Brass right angle hydrant valve with cap and chain	No	2
Carried Forward			R
Section No. 6			
Bill No. 1			
WATER RETICULATION			

Brought Forward		R	
<u>Fire hydrant pedestals</u>			
35	25MPa/19mm Reinforced concrete hydrant pedestal 1960mm high cast around vertical pipe with bottom 1260mm below ground, 440 x 440mm square at base and tapering to octagonal shaped top 240 x 240mm overall, including necessary excavation, formwork, reinforcement and two coats of paint to exposed surfaces	No	3
<u>MUNICIPAL CONNECTIONS</u>			
<u>Connections</u>			
36	Allow the amount of R25 000 (Twenty Five Thousand Rand) for municipal connections	Item	25 000.00
37	Allow for Profit on above if required	Item	
38	Allow for Attendance on above if required	Item	
Carried Forward to Summary of Section No. 6		R	
Section No. 6			
Bill No. 1			
WATER RETICULATION			

Item No		Quantity	Rate	Amount
	<u>SECTION 8</u>			
	<u>BILL NO. 2</u>			
	<u>SEWERS</u>			
	<u>STANDARD PREAMBLES</u>			
	The contractor is referred to the Model Preambles for Trades (2008 edition) as issued the Association of South African Quantity Surveyors before pricing this bill			
	<u>SOIL DRAINAGE</u>			
	<u>Heavy duty uPVC pipes</u>			
1	110mm Pipes laid in and including trenches not exceeding 1m deep, bedding, backfilling, compaction and disposal of excavated material	m	108	
2	160mm Pipes laid in sleeve pipes (sleeve pipes elsewhere) (no excavation)	m	2	
3	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep, bedding, backfilling, compaction and disposal of surplus excavated material	m	2	
4	160mm Pipes laid in and including trenches not exceeding 1m deep, bedding, backfilling, compaction and disposal of excavated material	m	2	
5	uPVC cleaning eye fitted to end of 110mm earthenware pipe with 300 x 300mm cast iron cover and frame placed over cleaning eye including concrete surround finished smooth	No	8	
6	100mm uPVC pipe, raking or vertical to cleaning eye	m	8	
	<u>Extra over heavy duty uPVC pipes for fittings</u>			
7	110mm Bend	No	9	
8	110mm tee Junction	No	3	
9	110mm "Y" Junction	No	5	
	Carried Forward			
	Section No. 6			
	Bill No. 2			
	SEWER			

R

	Brought Forward			R	
10	160mm Bend	No	1		
11	160 x 110mm Reducer	No	1		
12	Extra over 100mm uPVC pipe for 100mm junction with I.E	No	8		
13	Extra over 110mm pipe for Permanent stoppers	No	2		
14	110mm Gulley "P" trap	No	4		
15	190 x 110mm Gulley head and grating	No	4		
16	110mm Rodding eye	No	6		
	<u>INSPECTION CHAMBERS</u>				
	<u>Brick inspection chamber including precast concrete cover slabs (covers elsewhere) and channels in benching</u>				
17	1830 x 1830mm Inspection chamber not exceeding 1000mm deep internally	No	3		
18	1830 x 1830mm Inspection chamber exceeding 1000mm and not exceeding 2000mm deep internally	No	2		
19	1830 x 1830mm Inspection chamber exceeding 2000mm and not exceeding 3000mm deep internally	No	1		
	<u>Cast iron covers, etc</u>				
20	Double seal manhole cover and frame type 2A as per SANS 1882	No	2		
21	Lifting-key for manhole cover	No	1		
	<u>Precast concrete gulleys</u>				
22	Precast concrete gulley with 100mm outlet	No	6		
	<u>Sundries</u>				
23	300x300x50mm Precast concrete inspection eye marker slab set in ground	No	8		
	Carried Forward			R	
	Section No. 6				
	Bill No. 2				
	SEWER				

Brought Forward			R
24	Inspection chamber size 450 x 600 average 1200mm internally fitted with type 8a cast iron piece double a seal manhole cover and frame	No 6	
25	550mm Diameter 183kg type 2b cast iron manhole cover and frame	No 6	
26	Testing water pipe system	Item	
<u>French Drain</u>			
<u>(All Trades)</u>			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
27	Holes	m3 14	
<u>Etra over excavation other than bulk in earth for excavation in:</u>			
28	Soft rock	m3 2	
29	Hard rock	m3 1	
<u>Extra over all excavations for carting away</u>			
30	Surplus material from excavations and / or stockpiles on site to a dumping site to be located by the contractor	m3 14	
<u>Risk of collapse of excavations other than bulk</u>			
31	Sides of trench and hole excavations not exceeding 1,5m deep	m2 41	
<u>KEEPING EXCAVATION FREE OF WATER</u>			
32	Keeping excavations free of all water other than subterranean water	Item	
<u>EARTH FILLING, ETC</u>			
Carried Forward			R
Section No. 6 Bill No. 2 SEWER			

Brought Forward			R
<u>Filling with material from excavations compacted to a density of at least 95% Mod AASHTO maximum density</u>			
33	Backfilling to trenches, holes, etc	m3	2
<u>Coarse river sand filling compacted to 95% mod AASHTO maximum density:</u>			
34	In french drain	m3	4
<u>Gravel filling</u>			
35	In french drain	m3	3
<u>Stone filling of 150mm crushed stone (not compacted)</u>			
36	In french drain	m3	7
<u>0.6 Corrugated iron as permanent cover over:</u>			
37	french drain	m2	4
<u>SOIL DRAINAGE (CPAP Work Group No 146) uPVC:</u>			
38	100mm pipes vertically or ramped to cleaning eyes (no excavation)	m	7
<u>Sundries</u>			
39	110mm cast iron `ABC` cleaning eyes	m	2
<u>SOIL DRAINAGE (CPAP Work Group No 148) upvc</u>			
40	110mm Perforated pipes laid in french drain.	m	8
41	110mm Pipes laid in and including trenches not exceeding 1m deep.	m	16
<u>Etra over uPVC pipes for fittings:</u>			
42	110mm bend	No	4
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 2			
SEWER			

Item No	Quantity	Rate	Amount
<u>SECTION 8</u>			
<u>BILL NO. 3</u>			
<u>STORMWATER DRAINAGE (PROVISIONAL)</u>			
<u>STANDARD PREAMBLES</u>			
The contractor is referred to the Model Preambles for Trades (2008 edition) as issued by the Association of South African Quantity Surveyors before pricing this bill Descriptions of excavations shall be deemed to include for setting aside surplus excavated material in spoil heaps for use as filling or for depositing within 150m of the perimeter of the excavations and spreading and roughly levelling as directed, as well as for increase in bulk and multiple handling of excavated material caused by the Contractor's method of operation Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site and for bulking			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>uPVC pipes and fittings:</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
<u>Fixing of pipes</u>			
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level			
Carried Forward		R	
Section No. 6 Bill No. 3 STORMWATER			

Brought Forward <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Exposed concrete surfaces</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions Where no manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding	R
Carried Forward Section No. 6 Bill No. 3 STORMWATER	R

Brought Forward			R
<u>SUB-SOIL DRAINAGE</u>			
<u>"Netlon" Slotted drainage pipes</u>			
1	110mm Slotted uPVC pipes laid in and including trenches not exceeding 1m deep, including 19mm crushed stone encasing size 300 x 300mm and Bidum Type U24 filter fabric blanket wrapped around encasing with 150mm side and 300mm end laps including stitching, complete with excavations and carting away of excavated material and backfilling of trenches with clean river sand	m	200
2	Extra over 110mm slotted uPVC pipe for end cap	No	2
<u>STORMWATER DRAINAGE</u>			
<u>25MPa/19mm unreinforced concrete with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, laid to falls in panels not exceeding 2m long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and sealing with "Sikaflex-1a" joint sealant including all necessary formwork, excavations, compaction, etc</u>			
3	Surface channel size 1500mm wide x average 120mm thick with 50mm deep V-shaped waterway (concrete = 0,18 m3/m)	m	240
4	Extra over 1200mm wide channel for closed ends, angle intersection, tee intersections, etc	No	2
<u>Class 34 uPVC Stormwater Pipes</u>			
5	250mm Diameter uPVC stormwater pipe Class 34 laid in trenches to falls on suitable bedding material as per manufacturers instructions including all excavations, filling and compaction	m	120
Carried Forward			R
Section No. 6 Bill No. 3 STORMWATER			

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Brought Forward			R
12	Stormwater sump exceeding 2000mm and not exceeding 2250mm deep internally	No	2
	<u>Excavate in earth for and build stormwater kerb inlet catch pit (type "S2") internal size 1265 x 805mm with one brick sides in extra hard stock bricks in (1:3) cement mortar on 250mm thick concrete class 25/19mm base slab projecting 258mm all round, 100mm thick concrete class 25/19mm intermediate triangular side base slabs with 75mm thick sloping drains to form overall 1220mm wide kerb inlet rendered internally in (1:3) cement plaster and including 1200mm thick precast concrete cover slabs, supported on one precast concrete support beams in one triangular side panels and centre rectangular panel with 600mm diameter rebated opening for heavy duty precast concrete cover (elsewhere measured), the bottom benched up in fine mass concrete benching in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic all complete as detailed on drawing 22104-TP-02</u>		
13	Stormwater kerb inlet catch pit exceeding 1250mm and not exceeding 1500mm deep internally	No	4
14	Stormwater kerb inlet catch pit exceeding 1500mm and not exceeding 1750mm deep internally	No	2
Carried Forward			R
Section No. 6 Bill No. 3 STORMWATER			

		Brought Forward			R
		<u>Excavate in earth for and build stormwater kerb inlet catch pit (type "D3") internal size 1265 x 805mm with one brick sides in extra hard stock bricks in (1:3) cement mortar on 250mm thick concrete class 25/19mm base slab projecting 258mm all round, 100mm thick concrete class 25/19mm intermediate triangular side base slabs with 75mm thick sloping drains to form overall 3660mm wide kerb inlet rendered internally in (1:3) cement plaster and including 1200mm thick precast concrete cover slabs, supported on two precast concrete support beams in two triangular side panels and centre rectangular panel with 600mm diameter rebated opening for heavy duty precast concrete cover (elsewhere measured), the bottom benched up in fine mass concrete benching in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic all complete as detailed on drawing 22104-CW-10</u>			
15	Stormwater kerb inlet catch pit exceeding 1250mm and not exceeding 1500mm deep internally	No		2	
	<u>Excavate in earth for and build stormwater inspection chamber 920 x 920mm internal size with one brick sides in extra hard stock bricks in (1:3) cement mortar on 150mm thick concrete class 25/19 base slab projecting 75mm all round, rendered internally in (1:3) cement plaster and including 100mm thick precast concrete class 30/19 cover slab bedded on brick walls with 600mm diameter rebated opening for precast concrete cover (elsewhere measured) sealed in tallow, the bottom benched up in fine mass concrete benching in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary step irons, etc, all complete as detailed on drawing 22104-CW-10</u>				
16	Inspection chamber exceeding 1250mm and not exceeding 1500mm deep internally	No		2	
17	Inspection chamber exceeding 2000mm and not exceeding 2250mm deep internally	No		2	
		Carried Forward			R
	Section No. 6 Bill No. 3 STORMWATER				

Brought Forward			R
<u>Covers etc</u>			
18	450 x 450mm x 50mm Thick heavy duty hot dipped galvanised banded Mentis Regtagrid RS40 grating with 50 x 4.5mm bearers bars (54.6kg/m ²) fitted in and secure to angle section frame of rebated coverslab.	No	10
19	600 x 600mm x 50mm Thick heavy duty hot dipped galvanised banded Mentis Regtagrid RS40 grating with 50 x 4.5mm bearers bars (54.6kg/m ²) fitted in and secure to angle section frame of rebated coverslab.	No	18
<u>SUNDRIES</u>			
<u>Subsoil drainage outlet header walls</u>			
20	Subsoil drainage headwall constructed of Class 15/19 concrete wall 500 x 500 x 100mm thick with 100mm diameter outlet pipe connection flush and watertight, with 500 x 500mm stone pitching of approximately 150mm diameter river stones tightly packed in 150mm thick layer and bedded and jointed in 1:4 cement mortar and pointed with hollow recessed joints, including preparation of ground surface under, all excavations, carting away and formwork	No	2
<u>Header walls</u>			
21	Stormwater headwall constructed of Class 20/19 concrete base slab 150mm thick and 1800mm long overall, the slab widening from 760mm at head to 2640mm at base end and with 150 x 600mm deep toe at discharge end and five 250 x 375mm splitters blocks projecting 250mm above slab, the slab and toe reinforced with R10 mild steel reinforcing at 300mm centres in both ways, the splitter blocks reinforced with R10 mild steel reinforcing 1200mm girth four times bent to shape, the headwall 600mm long x 510mm high with 300mm diameter outlet pipe connection flush and watertight, with two sidewalls 2850mm long sloping from 510mm to 250mm high, all of one brick walls in "NFX" extra hard stock bricks in (1:3) cement mortar, all including excavations, compaction, backfilling, formwork and smooth trowelled finish to all exposed surfaces	No	4
Carried Forward			R
Section No. 6 Bill No. 3 STORMWATER			

Brought Forward			R
22	Stormwater headwall constructed of Class 20/19 concrete base slab 150mm thick and 1800mm long overall, the slab widening from 840mm at head to 2640mm at base end and with 150 x 600mm deep toe at discharge end and five 250 x 375mm splitters blocks projecting 250mm above slab, the slab and toe reinforced with R10 mild steel reinforcing at 300mm centres in both ways, the splitter blocks reinforced with R10 mild steel reinforcing 1200mm girth four times bent to shape, the headwall 600mm long x 510mm high with 375mm diameter outlet pipe connection flush and watertight, with two sidewalls 2800mm long sloping from 510mm to 250mm high, all of one brick walls in "NFX" extra hard stock bricks in (1:3) cement mortar, all including excavations, compaction, backfilling, formwork and smooth trowelled finish to all exposed surfaces	No	2
<u>Reno mattresses</u>			
23	"Reno" mattress size 3 x 2 x 0,3m of 80 x 100mm galvanised mesh with 2.75mm minimum thickness heavy duty PVC coating laid on "Bidim Grade A4" geofabric including necessary excavations, etc	No	2
<u>Extra over excavations in soft material for pipe trenches, chambers, etc. for</u>			
24	Intermediate excavations	m3	25
25	Hard rock	m3	12
26	Hard rock	m3	12
<u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days</u>			
27	V-shaped channel 500mm wide x 100mm thick with rounded salient edges and finished on exposed surfaces with (2:1) cement mortar, laid to falls in panels not exceeding 1800mm long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavation and formwork	m	320
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 3			
STORMWATER			

Item No		Quantity	Rate	Amount
	<u>SECTION 8</u>			
	<u>BILL NO. 4</u>			
	<u>PARKING, WALKWAYS, ETC (PROVISIONAL)</u>			
	Refer to 'The Preambles to Trades' as issued by the Office of the Chief Director, Department of Public Works, Roads and Transport			
	NOTE:			
	EPWP: All the work in this trade shall be executed in accordance with the principles of Expanded Public Works Programme , that is, labour intensive methods shall be used (www.epwp.gov.za)			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	Reduced levels under roads and paving	m3	1 832	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor	m3	1 832	
	<u>Keeping excavations free of water</u>			
3	Keeping excavations free of water other than subterranean water		Item	
	<u>SOIL POISONING</u>			
	<u>Soil Treatment</u>			
4	Weed-killing treatment of surface under paving	m2	4 071	
5	Ant poison treatment ditto	m2	4 071	
	Carried Forward			
	Section No. 6			
	Bill No. 4			
	APRONS, COVERED WALKWAYS, PAVING AND BULK			
			R	

Brought Forward			R
<u>FILLING</u>			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site including haulage approximately 150m from perimeter of excavations or stock piles</u>			
6	Rip and scarify 150mm in situ layer, wet and apply heavy rollers or rammers to achieve 93% MOD AASHTO at OMC (Optimum Moisture Content). Perform testing (DCP) to such prepared ground and further wet and compact until minimum CBR (California Bearing Ratio) of 7 is reached throughout 800mm deep soil profile. (Soil tests elsewhere measured)	m2	204
<u>Coarse river sand filling supplied by the contractor</u>			
7	Under floors etc	m3	204
<u>Imported G7 material, supplied by the contractor and brought onto site, compacted in layers not exceeding 150mm thick to 95% Mod AASHTO density (Density CBR minimum of 15% at 95% Mod AASHTO density)</u>			
8	Sub-base course under paving, roads, etc.	m3	611
<u>Imported G5 material, supplied by the contractor and brought onto site, compacted in layers not exceeding 150mm, to 95% Mod AASHTO density (Maximum PI < 12, minimum CBR > 30 at 95% Mod AASHTO density)</u>			
9	150mm Sub-base course under paving, roads, etc.	m3	611
<u>Earth filling of C4 material supplied by the contractor, compacted to 97% Mod AASHTO density</u>			
10	Under paving ,roads etc	m3	298
<u>Compaction of surfaces</u>			
11	Compaction of ground surface under pavings, etc including scarifying for a depth of 250mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod ASSHTO density	m2	291
Carried Forward			R
Section No. 6 Bill No. 4 APRONS, COVERED WALKWAYS, PAVING AND BULK			

Brought Forward			R
<u>Prescribed density tests on filling</u>			
12	Modified AASHTO density test	No	60
<u>Precast concrete, finished smooth on exposed surfaces including bedding, jointing and pointing</u>			
13	Barrier kerb (SABS 927 fig 7) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	716
14	Barrier kerb (SABS 927 fig 7) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint circular on plan not exceeding 4m radius formed with short lengths of straight kerb including excavation, backfilling, etc	m	264
<u>60mm "Corobrick Pavers" Clay paving blocks on 25mm thick river sand bed with sand and cement mixture swept into joints and hosed down</u>			
15	Paving in herringbone bond to assembly areas roads ,walkways, etc	m2	2 084
16	200mm Edging on and including 200 x 150mm thick unreinforced concrete bedding including excavation, formwork, etc	m	135
<u>20 MPa/20 mm concrete</u>			
17	Surface beds cast in panels	m3	19
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
18	Surface beds	m2	15
<u>Fabric reinforcement</u>			
19	Type 193 fabric reinforcement in concrete aprons	m2	192
<u>Smooth formwork to sides</u>			
20	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	96
Carried Forward			R
Section No. 6 Bill No. 4 APRONS, COVERED WALKWAYS, PAVING AND BULK			

Brought Forward			R
<u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces</u>			
21	12 mm Joints not exceeding 300 mm high	m	96
<u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>			
22	12 mm Joints not exceeding 300 mm high	m	96
<u>RAMPS</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
23	Trenches and holes for thickening under surface beds, etc	m3	4
<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 90% Mod AASHTO density	m2	169
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
25	Under floors, steps, pavings, etc	m3	4
<u>Earth filling supplied by the contractor compacted to 93% Mod AASHTO density</u>			
26	Under floors, steps, pavings, etc.	m3	68
<u>25MPa/19mm concrete</u>			
27	Ramps including thickenings	m3	22
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
28	Ramps	m2	169
Carried Forward			R
Section No. 6 Bill No. 4 APRONS, COVERED WALKWAYS, PAVING AND BULK			

Brought Forward			R
<u>Rough form work to sides</u>			
29	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	179
<u>Fabric reinforcement</u>			
30	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	169
<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" or other equal and approved waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
31	Under surface beds, ramps, etc	m2	193
<u>WALKWAY SLABS</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
32	Reduced levels under floors	m3	144
33	Trenches	m3	207
<u>Extra over trench and hole excavations in earth for excavation in</u>			
34	Soft rock	m3	21
35	Hard rock	m3	105
<u>Extra over all excavations for carting away</u>			
36	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	89
<u>Risk of collapse of excavations</u>			
37	Sides of trench and hole excavations not exceeding 1,5m deep	m2	831
<u>Keeping excavations free of water</u>			
38	Keeping excavations free of all water other than subterranean water	Item	
Carried Forward			R
Section No. 6 Bill No. 4 APRONS, COVERED WALKWAYS, PAVING AND BULK			

Brought Forward			R
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
39	Backfilling to trenches, holes, etc	m3	119
<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density</u>			
40	Under floors, steps, pavings, etc	m3	114
<u>Soil insecticide</u>			
41	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	481
42	To bottoms and sides of trenches	m2	1 067
<u>20MPa/19mm concrete</u>			
43	Surface beds	m3	39
44	Strip footings	m3	59
<u>Fabric reinforcement</u>			
45	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	481
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
46	One brick walls	m2	283
<u>Brickwork reinforcement</u>			
47	150mm Wide reinforcement built in horizontally	m	1 667
<u>External face bricks (Prime Cost Amount R 4 500.00/1000) pointed with flush horizontal and vertical joints both sides</u>			
48	Extra over brickwork for face brickwork	m2	142
Carried Forward			R
Section No. 6 Bill No. 4 APRONS, COVERED WALKWAYS, PAVING AND BULK			

Brought Forward			R
<u>Brick-on-edge header course copings, sills, etc of external face bricks (Prime Cost Amount R 3 500.00/1000) pointed with flush joints on all exposed faces</u>			
49	220mm Wide sill set sloping and slightly projecting	m	472
<u>UNCOVERED WALKWAYS</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
50	Reduced levels under floors	m3	73
51	Trenches	m3	176
<u>Extra over trench and hole excavations in earth for excavation in</u>			
52	Soft rock	m3	5
53	Hard rock	m3	3
<u>Extra over all excavations for carting away</u>			
54	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	66
<u>Risk of collapse of excavations</u>			
55	Sides of trench and hole excavations not exceeding 1,5m deep	m2	211
<u>Keeping excavations free of water</u>			
56	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 93% Mod AASHTO density</u>			
57	Backfilling to trenches, holes, etc	m3	40
<u>Earth filling supplied by the contractor compacted to 95% Mod AASHTO density</u>			
58	Under floors, steps, pavings, etc	m3	73
Carried Forward			R
Section No. 6 Bill No. 4 APRONS, COVERED WALKWAYS, PAVING AND BULK			

Brought Forward			R
<u>Soil insecticide</u>			
59	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	245
60	To bottoms and sides of trenches	m2	271
<u>20MPa/19mm concrete</u>			
61	Surface beds	m3	20
62	Strip footings	m3	30
<u>Fabric reinforcement</u>			
63	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	245
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
64	One brick walls	m2	144
<u>Brickwork reinforcement</u>			
65	150mm Wide reinforcement built in horizontally	m	564
<u>External face bricks (Prime Cost Amount R 4 500.00/1000) pointed with flush horizontal and vertical joints both sides</u>			
66	Extra over brickwork for face brickwork	m2	72
<u>Brick-on-edge header course copings, sills, etc of external face bricks (Prime Cost Amount R 3 500.00/1000) pointed with flush joints on all exposed faces</u>			
67	220mm Wide sill set sloping and slightly projecting	m	240
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 4			
APRONS, COVERED WALKWAYS, PAVING AND BULK			

Item No		Quantity	Rate	Amount
	<u>SECTION 8</u>			
	<u>BILL NO. 5</u>			
	<u>FENCING (PROVISIONAL)</u>			
	Refer to 'The Preambles to Trades' as issued by the Office of the Chief Director, Department of Public Works, Roads and Transport			
	NOTE:			
	EPWP: All the work in this trade shall be executed in accordance with the principles of Expanded Public Works Programme , that is, labour intensive methods shall be used (www.epwp.gov.za)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Work on site</u>			
	The boundary line shall be cleared of all vegetation, trees, rocks, rubble and rubbish for a width of 500mm on each side and the same removed from site.			
	The one meter wide boundary line shall be graded to an even line so that the fencing mesh later described, shall have a 50mm gap at the bottom and a height of 1800mm above ground level.			
	Allowance shall therefore be made as required to excavate areas that are too high and to fill depressions with approved clean filling, carted on where necessary and well compacted prior to erection of posts.			
	Carried Forward		R	
	Section No. 6 Bill No. 5 FENCING (PROVISIONAL)			

Brought Forward					R
<u>Gates</u>					
Supply each gate with a suitable length of heavy duty chain and a 50mm heavy duty brass padlock with two keys					
Gates shall have all joints and accessories securely welded on with all welds neatly trimmed and waterproofed, with either square and mitred corners or accurately jig-formed rounded corners with a radius not exceeding 100mm					
Gates shall be hot dipped galvanised after fabrication, to conform with the requirements of SABS specification 763 - Class A					
<u>Site clearance</u>					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	4 527		
<u>EXCAVATION, FILLING, ETC</u>					
<u>Excavation in earth not exceeding 2m deep</u>					
2	Holes	m3	436		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
3	Soft rock	m3	44		
4	Hard rock	m3	22		
<u>Extra over all excavations for carting away</u>					
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	291		
<u>Risk of collapse of excavations</u>					
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	1 454		
Carried Forward					R
Section No. 6 Bill No. 5 FENCING (PROVISIONAL)					

Brought Forward			R
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water	Item	
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15MPa/19mm concrete</u>			
8	In bases	m3	29
<u>TEST BLOCKS</u>			
9	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	15
<u>SECURITY FENCING</u>			
<u>Steel palisade fencing</u>			
10	Palisade fencing 3000mm wide x 1800mm high comprising 40 x 40 x 3mm hot rolled angle iron three prong pales at 200 centres welded to and including 38 x 76 x 2mm steel tube top and bottom rails secured to 76 x 76 x 2mm hollow section intermediate, corner and gate posts 1800mm long at 3000mm including M8 x 30 cup square with anti-vandal nuts, the posts complete with ABS vacuum formed top caps and 3mm thick bottom plates anchored to concrete (elsewhere) installed complete	m	1 212
<u>Gates, screens, etc.</u>			
<u>Extra over palisade fencing for gates</u>			
11	Gate 1,2 x 1,8m high including sliding lock and padlock	No	2
12	Double gate 6 x 1,8m high including heavy duty hasp and staple, padlock and two barrel bolts with two keeps in and including concrete anchor blocks	No	1
<u>PAINTWORK</u>			
Carried Forward			R
Section No. 6 Bill No. 5 FENCING (PROVISIONAL)			

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Item No		Quantity	Rate	Amount
	<u>SECTION 8</u>			
	<u>BILL NO. 6</u>			
	<u>CARPORTS (PROVISIONAL)</u>			
	PREAMBLESFor Preambles refer to "Standard Preambles To All Trades Rev 2 - January 2009" and "Supplementary Preambles"			
	SUPPLEMENTARY PREAMBLESProprietary items or materialsProprietary items or materials where specified are to be of the brand specified - or other approved - by the Head: Works			
	<u>NEW 20-BAYS COVERED AND 10 UNCOVERED BAYS</u>			
	(WORK GROUP 104)			
	<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
	<u>Excavation in earth not exceeding 2 m deep</u>			
1	Holes	m3	6	
	<u>Extra over trench and hole excavations in soft material for</u>			
2	Soft rock	m3	1	
3	Hard rock excavation	m3	1	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	6	
	<u>Keeping excavations free of water</u>			
5	Keeping excavations free of water	Item		
	Carried Forward		R	
	Section No. 6 Bill No. 6 CARPORT			

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Brought Forward			R
<u>Class U2 ordinary finish to top surfaces of concrete</u>			
9	Surface beds, slabs, etc	m2	6
<u>15 MPa non-shrink grout</u>			
10	Bedding approximately 25mm thick under 200 x 200mm base plate including chamfered edges all round	No	37
(WORK GROUP 124)			
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
<u>NOTE:</u> The contractor is to submit a certificate signed by the merchant, stating that the roof covering supplied complies with the required thickness specified.			
<u>0,55mm Chroma deck C1S IBR 686 White Lion Roof Sheets fixed to steel purlins.</u>			
11	Roof covering	m2	263
(WORK GROUP 134)			
<u>STEEL COLUMNS AND BEAMS</u>			
<u>Vertical hollow sections columns fixed to flat base plate welded on and bolted to concrete</u>			
12	100 x 100 x 3mm Hollow section columns	t	1
<u>Welded beams, rafter, etc in single lengths with flat section bearer and connection plates bolted to steel columns including hoisting and fixing in position 2,7m above natural ground level</u>			
13	100 x 100 x 3mm Hollow section beams welded to columns	t	1
<u>Bolts to columns, etc</u>			
14	M12 x 75mm Expansion bolt	No	129
<u>PURLINS, GIRTS, BRACING, ETC</u>			
Carried Forward			R
Section No. 6 Bill No. 6 CARPORT			

Brought Forward			R
	<u>Purlins, girts, cleats, etc. bolted to steel</u>		
15	125 x 75 x 20 x 2.5 thick steel purlins	t	1.2
	(WORK GROUP 152)		
	<u>PAINTWORK, ETC TO NEW WORK</u>		
	<u>PRIMING OF STRUCTURAL STEELWORK</u> <u>(CLASS P1)</u>		
	<u>Clean surfaces, bring to a bright metallic condition</u> <u>and paint surfaces with one coat red oxide zinc</u> <u>chromate metal primer on steel:</u>		
16	On carport steel	m2	213
	<u>ON METAL</u>		
	<u>Spot priming defects in pre-primed surfaces with</u> <u>'Plascon Namelcote Synthetic Metal' and apply one</u> <u>coat 'Plascon Merit Universal Undercoat' and two</u> <u>coats 'Plascon Magic Flow Eggshell Enamel' paint</u> <u>on steel</u>		
17	On carport steel	m2	213
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Bill No. 6			
CARPORT			

Carried to Final Summary

Item No		Quantity	Rate	Amount
	<u>SECTION 9</u>			
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	1.The following sums and amounts are NET.			
	2. Under no circumstances may any Provisional Sum be extended at an amount lower than the amount given in the bill.			
	3. Unless a specific percentage mark-up for Attendance is indicated in a rate column, the amount priced by the Contractor for Attendance against each Provisional Sum shall be deemed to be the Lump Sum and shall not be adjusted unless the scope of the sub contract varies significantly.			
	4. Provisional Sums contained here-in may be omitted or reduced at the employer's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omissions or any discount, or percentage relating to Provisional Sums or PC amounts or any loss of profit related thereto.			
	<u>GRADE R FURNITURE</u>			
1	Provide the sum of R 296 590.00 (Two Hundred and Ninety Six Thousand Five Hundred and Ninety Rand)	Item		296 590.00
2	Profit on above item.	Item		
3	Attendance on ditto.	Item		
	<u>CLASSROOM FURNITURE</u>			
4	Provide the sum of R 713 352.00 (Seven Hundred and Thirteen Thousand Three Hundred and Fifty Two Rand) for classroom furniture installed complete	Item		713 352.00
5	Profit on above item.	Item		
	Carried Forward		R	
	Section No. 7 Bill No. 1 PROVISIONAL SUM			

Brought Forward			R
6	Attendance on ditto.	Item	
<u>SIGNAGE</u>			
7	Provide the sum of R20 000.00 (Twenty Thousand Rand) for signage installed complete	Item	20 000.00
8	Profit on above item	Item	
9	Attendance on ditto.	Item	
<u>ADMINISTRATION BLOCK FURNITURE</u>			
10	Provide the sum of R201 200.00 (Two Hundred and One Thousand and Two Hundred Rand)	Item	201 200.00
11	Profit on above item.	Item	
12	Attendance on ditto.	Item	
<u>BOREHOLE</u>			
13	Provide the sum of R 200 000.00 (Two Hundred Thousand Rand) for borehole installed complete	Item	200 000.00
14	Profit on above item.	Item	
15	Attendance on ditto.	Item	
<u>WATER TANK AND STAND COMPLETE</u>			
16	Provide the sum of R200 000.00 (Two Hundred Thousand Rand) water tank and stand complete	Item	200 000.00
17	Profit on above item.	Item	
18	Attendance on ditto.	Item	
Carried Forward			
Section No. 7			
Bill No. 1			
PROVISIONAL SUM			

Brought Forward		R	
<u>ELECTRICAL INSTALLATION</u>			
19	Allow the sum of R 1 744 040.00 (One Million Seven Hundred and Forty Four Thousand and Forty Rands) for electrical installation	Item	1 744 040.00
20	Profit on above item	Item	
21	Attendance on ditto	Item	
<u>COMMUNITY LIASON OFFICER</u>			
22	Allow the Budgetary Amount of R162 000.00 (One Hundred and Sixty Two Thousand Rand) NET for the employment of a community liaisons officer required for labour requirements by the contractor and deducted in whole part if not required. The contractor must issue copies of CLOs payslip to PA and IDT. The CLO will also report on EPWP	Item	162 000.00
Carried to Final Summary			
Section No. 7			
Bill No. 1			
PROVISIONAL SUM			

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	28	
2	4 GRADE R	73	
3	5 NO x 4 CLASSROOM BLOCK	109	
4	MEDIUM ADMINISTRATION BLOCK	155	
5	ENVIRO LOO TOILETS 38 SEATS	173	
6	EXTERNAL WORKS	207	
7	PROVISIONAL SUM	210	
	SUB TOTAL - 1 BUILDING COSTS		R
	<u>CONTINGENCY SUM</u>		
	Provide the sum of R935 447.93 (Nine Hundred and Thirty Five Thousand Four Hundred and Forty Seven Rand Ninety Three Cents) for contingencies to be expended as the Client may direct or deduct		
	<u>ESCALATION</u>		
	Provide the amount of R 859 698.00 (Eight Hundred and Fifty Nine Thousand Six Hundred and Ninety Eight Rand) for escalation		
	SUB TOTAL BUILDINGS (VAT excl.)		R
	Value Added Tax @15%		R
	Sub Total (VAT INCL) CARRIED TO FORM OF TENDER		R
	Carried to Form of Tender		R