

Item No		Quantity	Amount
	<p><u>SECTION 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>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</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>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</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p> <p>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</p>		
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

	Brought Forward	R	
3	Documents (clause3)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
4	Design responsibility (clause 4)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
5	Employer's agents (clause 5)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
	<p>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 subcontractorsThe 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</p> <p>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</p> <p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</p>		
6	Site representative (clause 6)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward	R	
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	Brought Forward		R
7	Compliance with regulations (clause 7) Fixed: _____ Value related: _____ Time related: _____		Item
8	Works risk (clause 8) Fixed: _____ Value related: _____ Time related: _____		Item
9	Indemnities (clause 9) Fixed: _____ Value related: _____ Time related: _____ Works insurances (clause 10) Fixed: _____ Value related: _____ Time related: _____		Item
10	Liability insurances (clause 11) Fixed: _____ Value related: _____ Time related: _____		Item
11	Effecting insurance (clause 12) Fixed: _____ Value related: _____ Time related: _____		Item
12	No clause Security (clause 14) Fixed: _____ Value related: _____ Time related: _____		N/A
	<u>Execution (A15-A23)</u>		
13	A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS Clause 15.0 Clause 15.1.1 is amended by replacing it with: No clause Clause 15.1.2 is amended by replacing it with: The security selected in terms of 14.0		
		Carried Forward	R
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	Brought Forward	R
	Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date	
	Clause 15.2.1 is amended by replacing it with the following clause: Preparation for and execution of the works (clause 15) Fixed: _____ Value related: _____ Time related: _____	Item
14	Access to the works (clause 16) Fixed: _____ Value related: _____ Time related: _____	Item
15	Contract instructions (clause 17) Fixed: _____ Value related: _____ Time related: _____	Item
16	Setting out of the works (clause 18) Fixed: _____ Value related: _____ Time related: _____	Item
	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	
17	Assignment (clause 19) Fixed: _____ Value related: _____ Time related: _____	Item
	The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer	
18	Nominated subcontractors (clause 20) Fixed: _____ Value related: _____ Time related: _____	Item
19	Selected subcontractors (clause 21) Fixed: _____ Value related: _____ Time related: _____	Item
	Carried Forward	R
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	Brought Forward	R	
	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 Subcontractors		
20	Employer's Direct Contractors (clause 22) Fixed: _____ Value related: _____ Time related: _____	Item	
21	Contractor's Domestic Sub-Contractors (Clause 23) Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>Completion (A24-A30)</u>		
22	Practical completion (clause 24) Fixed: _____ Value related: _____ Time related: _____	Item	
23	Works completion (clause 25) Fixed: _____ Value related: _____ Time related: _____	Item	
24	Final completion (clause 26) Fixed: _____ Value related: _____ Time related: _____	Item	
25	Latent defects liability period (clause 27) Fixed: _____ Value related: _____ Time related: _____	Item	
26	Sectional completion (clause 28) Fixed: _____ Value related: _____ Time related: _____	Item	
27	Revision of date of practical completion (clause 29) Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward	R	
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	Brought Forward	R	
	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)		
28	Penalty for non-completion (clause 30) Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>Payment (A31 - A35)</u>		
	Interim payment to the contractor (clause 31) Fixed: _____ Value related: _____ Time related: _____	Item	
29	Adjustment to the contract value (clause 32) Fixed: _____ Value related: _____ Time related: _____	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		
30	Recovery of expense and loss (clause 33) Fixed: _____ Value related: _____ Time related: _____	Item	
31	Final account and final payment (clause 34) Fixed: _____ Value related: _____ Time related: _____	Item	
32	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		
	Carried Forward	R	
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		Brought Forward	
33	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		R
34	Payment to other parties (clause 35) Fixed: _____ Value related: _____ Time related: _____ <u>Cancellation (A36-A39)</u> Cancellation by employer - contractor's default (clause 36) Fixed: _____ Value related: _____ Time related: _____ Cancellation by employer - loss and damage (clause 37) Fixed: _____ Value related: _____ Time related: _____ Cancellation by contractor - employer's default (clause 38) Fixed: _____ Value related: _____ Time related: _____		Item
35	Cancellation - cessation of the works (clause 39) Fixed: _____ Value related: _____ Time related: _____ <u>Dispute (A40)</u>		Item
36	Dispute Settlement (clause 40) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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		Brought Forward	R
	<u>Substitute Provisions (A41)</u>		
37	State clauses (Clause 41) Fixed: _____ Value related: _____ Time related: _____ Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder		Item
	<u>SCHEDULE</u> Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder		
38	Pre-tender information (clause 42) F:..... V:..... T:.....		Item
	<u>42.1 CONTRACTING AND OTHER PARTIES</u>		
	42.1.1 Employer: The Mvula Trust		
	42.1.2 Principal Agent: Nyeleti Consulting (Pty) Ltd		
	42.1.3 Quantity Surveyor: Nyeleti Consulting (Pty) Ltd		
	4.2.4 Civil and Structural Engineers :Nyeleti Consulting (Pty) Ltd		
	<u>42.2 CONTRACT DETAILS</u>		
	42.2.1 Works Description: Construction of water and sanitation facilities		
	42.2.2 Site Description: David Mutshinyalo Secondary School		
	42.2.3 Work or installations by direct contractors: Prefabricated Steel Tank		
	42.2.4 This agreement is for a government contract where there are specific options that are applicable to a State organ only	Yes	
		Carried Forward	R
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	Brought Forward	R
42.2.5 Date on which possession of the site is intended to be given:		
UNKNOWN		
42.2.6 Period for the commencement of the works after the contractor takes possession of site.		
42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day 3 months after contractual commencement date Date Penalty Amount The penalty per calendar day shall be 0.05% of the tenderd amount (inclusive of value added tax)		
Carried		
42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day Section		
1.N/A..... DateR.N/A..... Penalty Amount		
42.2.9 The law applicable to this agreement shall be that of South Africa (country)		
<u>42.3 INSURANCES</u>		
42.3.1 Contract works insurance to be effected by:Contractor: For the Sum of R Contract Amount 20.00 % With a deductible of - to be determined by the contractor		
42.3.2 Supplementary insurance is required No		
42.3.3 Public liability insurance to be effected by:Contractor: For the Sum of R 2 500 000-00With a deductible of - to be determined by the contractor		
<u>42.4 DOCUMENTS</u>		
42.4.1 Waivers of contractors lien or right of continuing possession is required Yes		
	Carried Forward	R
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	Brought Forward	R
	42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of	
	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 The priced bills of quantities must be handed in with the tender	
	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 Yes Where JBCC CPAP is to be used Base Month July 2010	
	42.4.7 Details of changes made to the provision of JBCC standard documentation:	
	<u>SECTION B: PRELIMINARIES</u>	
	<u>Definitions and interpretation (B1)</u>	
39	Definition and interpretation (B1.1 - B1.4.6)	
	Fixed: _____ Value related: _____ Time related: _____	Item
	<u>Documents (B2)</u>	
40	Checking of documents (B2.1)	
	Fixed: _____ Value related: _____ Time related: _____	Item
41	Provisional bills of quantities (B2.2) NA	
	Fixed: _____ Value related: _____ Time related: _____	Item
	Carried Forward	R
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		Brought Forward	R
42	Availability of construction documentation (B2.3) Fixed: _____ Value related: _____ Time related: _____		Item
43	Interests of agents (B2.4) Fixed: _____ Value related: _____ Time related: _____		Item
44	Priced documents (B2.5) Fixed: _____ Value related: _____ Time related: _____		Item
45	Tender submission (B2.6) Fixed: _____ Value related: _____ Time related: _____		Item
46	Defined works area (B3.1) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>The site (B3)</u>		
47	Geotechnical investigation (B3.2) Fixed: _____ Value related: _____ Time related: _____		Item
48	Inspection of the site (B3.3) Fixed: _____ Value related: _____ Time related: _____		Item
49	Existing premises occupied (B3.4) Fixed: _____ Value related: _____ Time related: _____		Item
50	Previous work - dimensional accuracy (B3.5) Fixed: _____ Value related: _____ Time related: _____		Item
51	Previous work - defects (B3.6) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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		Brought Forward	R
52	Services - known (B3.7) Fixed: _____ Value related: _____ Time related: _____		Item
53	Services - unknown (B3.8) Fixed: _____ Value related: _____ Time related: _____		Item
54	Protection of trees etc (B3.9) Fixed: _____ Value related: _____ Time related: _____		Item
55	Articles of value (B3.10) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Management of contract (B4)</u>		
56	Inspection of adjoining properties etc (B3.11) Fixed: _____ Value related: _____ Time related: _____		Item
57	Management of the works (B4.1) Fixed: _____ Value related: _____ Time related: _____		Item
58	Programme for the works (B4.2) Fixed: _____ Value related: _____ Time related: _____		Item
59	Progress meetings (B4.3) Fixed: _____ Value related: _____ Time related: _____		Item
60	Technical meetings (B4.4) Fixed: _____ Value related: _____ Time related: _____		Item
61	Labour and Plant records (B4.5) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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			Brought Forward	
				R
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>			
62	Samples of materials (B5.1)			
	Fixed: _____ Value related: _____ Time related: _____			Item
63	Workmanship samples (B5.2)			
	Fixed: _____ Value related: _____ Time related: _____			Item
64	Shop drawings (B5.3)			
	Fixed: _____ Value related: _____ Time related: _____			Item
65	Compliance with Manufacturer's Instructions (B5.4)			
	Fixed: _____ Value related: _____ Time related: _____			Item
	<u>Temporary works and plant (B6)</u>			
66	Deposits and fees (B6.1)			
	Fixed: _____ Value related: _____ Time related: _____			Item
67	Enclosure of the works (B6.2)			
	Fixed: _____ Value related: _____ Time related: _____			Item
68	Advertising (B6.3)			
	Fixed: _____ Value related: _____ Time related: _____			Item
69	Plant, equipment, sheds and offices (B6.4)			
	Fixed: _____ Value related: _____ Time related: _____			Item
70	Main notice board (B6.5)			
	Fixed: _____ Value related: _____ Time related: _____			Item
			Carried Forward	R
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		Brought Forward	R
71	Subcontractors' notice board (B6.6) Not applicable		Item
	<u>Temporary services (B7)</u>		
72	Location (B7.1) Fixed: _____ Value related: _____ Time related: _____		Item
73	Water (B7.2) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____		Item
74	Electricity (B7.3) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____		Item
75	Telecommunication facilities (B7.4) Fixed: _____ Value related: _____ Time related: _____		Item
76	Ablution facilities (B7.5) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Prime cost amounts (B8)</u>		
77	Responsibility for prime cost amounts (B8.1) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Attendance on N/S Subcontractors (B9)</u>		
78	General attendance (B9.1) Fixed: _____ Value related: _____ Time related: _____		Item
79	Special attendance (B9.2) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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		Brought Forward	R
80	Commissioning - Fuel, water and power (B9.3) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Financial aspects (B10)</u>		
81	Statutory taxes, duties and levies (B10.1) Fixed: _____ Value related: _____ Time related: _____		Item
82	Payment of preliminaries (B10.2) Option [B] shall apply Fixed: _____ Value related: _____ Time related: _____		Item
83	Adjustment of preliminaries (B10.3) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____		Item
84	Payment certificate cash flow (B10.4) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>General (B11)</u>		
85	Protection of works (B11.1) Fixed: _____ Value related: _____ Time related: _____		Item
86	Protection/isolation of existing/sectionally occupied works (B11.2) Fixed: _____ Value related: _____ Time related: _____		Item
87	Security of the Works (B11.3) Fixed: _____ Value related: _____ Time related: _____		Item
88	Notice before covering work (B11.4) Fixed: _____ Value related: _____ Time related: _____		Item
89	Disturbance (B11.5) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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		Brought Forward	R
90	Works cleaning and clearing (B11.7) Fixed: _____ Value related: _____ Time related: _____		Item
91	Vermin (B11.8) Fixed: _____ Value related: _____ Time related: _____		Item
92	Overhand work (B11.9) Fixed: _____ Value related: _____ Time related: _____		Item
93	Instruction manuals and guarantees (B11.10) Fixed: _____ Value related: _____ Time related: _____		Item
94	As built information (B11.11) Fixed: _____ Value related: _____ Time related: _____		Item
95	Tenant Installations (B11.12) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Schedule of variables (B12)</u>		
96	Pre-tender information (B12.1) Fixed: _____ Value related: _____ Time related: _____		Item
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No		
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete	No	
	12.1.3 Interest of agents (B2.4)		
	12.1.4 Defined works area (B3.1)		
	12.1.5 Geotechnical investigation (B3.2) N/A		
	12.1.6 Existing premises occupied (B3.4)		
		Carried Forward	R
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	Brought Forward	R
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) YES		
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		
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<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		
<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			
97	Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor		
	Fixed: _____ Value related: _____ Time related: _____		Item
98	Black economic empowerment and training		
	Fixed: _____ Value related: _____ Time related: _____		Item
99	Proprietary branded products		
	Fixed: _____ Value related: _____ Time related: _____		Item
100	Testing of flat roof waterproofing for water tightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the water tightness of the waterproofing and before any further construction work is carried out above the waterproofing		
	Fixed: _____ Value related: _____ Time related: _____		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			
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101	Contract instructions Fixed: _____ Value related: _____ Time related: _____ 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	Item	
102	Labour record Fixed: _____ Value related: _____ Time related: _____ 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	Item	
103	Plant record Fixed: _____ Value related: _____ Time related: _____ 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	Item	
104	Guarantees Fixed: _____ Value related: _____ Time related: _____	Item	
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	<p>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</p>	
105	<p>Overtime</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p>	Item
106	<p>Co-operation of contractor for cost management</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p>	Item
107	<p>Occupational Health and Safety Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
	Carried Forward	R
	<p>Section No. 1 PRELIMNARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>	

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
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<p style="text-align: right;">Brought Forward</p> <p>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</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed</p> <p>Category : Value</p> <p>Category : Time</p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Edition 4.1 Code 2101 March 2005 2005 edition prepared by the Joint Building Contracts Committee, shall be the agreement, amended as hereinafter described</p> <p>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</p> <p>Contractors are referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>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</p> <p>Where any item is not relevant to this specific contract such item is marked N/A, signifying "not applicable"</p>	<p>R</p>	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>	<p>R</p>	

Brought Forward

R

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

PREAMBLES FOR TRADES

The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained

Supplementary preambles to the Model Preambles covering clauses of a general nature, clauses pertaining to specific materials and amendments to clauses in the Model Preambles are incorporated in these bills of quantities to satisfy the requirements of this project

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

GENERAL

If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories "F", "T" or "V" as the case may be below such item, where "F" denotes a fixed amount (amount not to be varied), "T" denotes an amount variable in proportion to time and "V" denotes an amount variable in proportion to value

SECTION A: PRINCIPAL BUILDING AGREEMENT

108 **Definitions (A1)**

Definitions and interpretation (clause 1)

Fixed: _____ Value related: _____ Time related: _____

Item

109 **Objective and Preparation (A2 to A14)**

Carried Forward

R

Section No. 1
 PRELIMINARIES AND GENERALS
 Bill No. 1
 PRELIMINARIES
PREPARED BY: NYELETI CONSULTING (PTY) LTD

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	Brought Forward	R	
	Offer acceptance and performance (clause 2)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
110	Documents (clause3)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
111	Design responsibility (clause 4)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
112	Employer's agents (clause 5)		
	Fixed: _____ Value related: _____ Time related: _____	Item	
	<p>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 subcontractorsThe 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</p> <p>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</p> <p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</p>		
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

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		Brought Forward	R
113	Site representative (clause 6) Fixed: _____ Value related: _____ Time related: _____		Item
114	Compliance with regulations (clause 7) Fixed: _____ Value related: _____ Time related: _____		Item
115	Works risk (clause 8) Fixed: _____ Value related: _____ Time related: _____		Item
116	Indemnities (clause 9) Fixed: _____ Value related: _____ Time related: _____		Item
	Works insurances (clause 10) Fixed: _____ Value related: _____ Time related: _____		Item
117	Liability insurances (clause 11) Fixed: _____ Value related: _____ Time related: _____		Item
118	Effecting insurance (clause 12) Fixed: _____ Value related: _____ Time related: _____		Item
119	No clause		N/A
	Security (clause 14) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
	Section No. 1 PRELIMNARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD		

		Brought Forward	
	<u>Execution (A15-A23)</u>		R
120	<p>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</p> <p>Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Preparation for and execution of the works (clause 15)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item
121	<p>Access to the works (clause 16)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item
122	<p>Contract instructions (clause 17)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item
123	<p>Setting out of the works (clause 18)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p>		Item
		Carried Forward	R
	<p>Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

		Brought Forward	
124	Assignment (clause 19) Fixed: _____ Value related: _____ Time related: _____ The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer		R Item
125	Nominated subcontractors (clause 20) Fixed: _____ Value related: _____ Time related: _____		Item
126	Selected subcontractors (clause 21) Fixed: _____ Value related: _____ Time related: _____ 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 Subcontractors		Item
127	Employer's Direct Contractors (clause 22) Fixed: _____ Value related: _____ Time related: _____		Item
128	Contractor's Domestic Sub-Contractors (Clause 23) Fixed: _____ Value related: _____ Time related: _____		Item
<u>Completion (A24-A30)</u>			
129	Practical completion (clause 24) Fixed: _____ Value related: _____ Time related: _____		Item
130	Works completion (clause 25) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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		Brought Forward	R
131	Final completion (clause 26) Fixed: _____ Value related: _____ Time related: _____		Item
132	Latent defects liability period (clause 27) Fixed: _____ Value related: _____ Time related: _____		Item
133	Sectional completion (clause 28) Fixed: _____ Value related: _____ Time related: _____		Item
134	Revision of date of practical completion (clause 29) Fixed: _____ Value related: _____ Time related: _____ 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)		Item
135	Penalty for non-completion (clause 30) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Payment (A31 - A35)</u>		
	Interim payment to the contractor (clause 31) Fixed: _____ Value related: _____ Time related: _____		Item
136	Adjustment to the contract value (clause 32) Fixed: _____ Value related: _____ Time related: _____ 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		Item
		Carried Forward	R
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	Brought Forward	R
137	Recovery of expense and loss (clause 33) Fixed: _____ Value related: _____ Time related: _____	Item
138	Final account and final payment (clause 34) Fixed: _____ Value related: _____ Time related: _____	Item
139	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	
140	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	
141	Payment to other parties (clause 35) Fixed: _____ Value related: _____ Time related: _____	Item
	<u>Cancellation (A36-A39)</u>	
	Cancellation by employer - contractor's default (clause 36) Fixed: _____ Value related: _____ Time related: _____	Item
	Cancellation by employer - loss and damage (clause 37) Fixed: _____ Value related: _____ Time related: _____	Item
	Cancellation by contractor - employer's default (clause 38) Fixed: _____ Value related: _____ Time related: _____	Item
	Carried Forward	R
<p>Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

	Brought Forward	R
42.1.5 Civil and Structural Engineers: Nyeleti Consulting (Pty) Ltd		
42.1.6 Quantity Surveyor: Nyeleti Consulting (Pty) Ltd		
<u>42.2 CONTRACT DETAILS</u>		
42.2.1 Works Description: Construction of sanitation facilities		
42.2.2 Site Description: David Mutshinyalo Secondary School		
42.2.3 Work or installations by direct contractors: Prefabricated Steel Tank		
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:		
UNKNOWN		
42.2.6 Period for the commencement of the works after the contractor takes posse		
42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day 3 months after contractual commencement date Date Penalty Amount The penalty per calendar day shall be 0.05% of the tenderd amount (inclusive of value added tax)		
Carried		
42.2.8 For the works in sections: Intended date of practical completion and the penalty per calendar day Section		
1.N/A..... DateR.N/A..... Penalty Amount		
	Carried Forward	R
Section No. 1 PRELIMNARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD		

	Brought Forward	R
42.2.9 The law applicable to this agreement shall be that of South Africa (country)		
<u>42.3 INSURANCES</u>		
42.3.1 Contract works insurance to be effected by:Contractor: For the Sum of R Contract Amount 20.00 % With a deductible of - to be determined by the contractor		
42.3.2 Supplementary insurance is required No		
42.3.3 Public liability insurance to be effected by:Contractor: For the Sum of R 2 500 000-00With a deductible of - to be determined by the contractor		
<u>42.4 DOCUMENTS</u>		
42.4.1 Waivers of contractors lien or right of continuing possession is required Yes		
42.4.2 Number of construction document copies to be supplied to the contractor free of charge: 3 Number of		
42.4.3 Bills of Quantities/Lump sum document schedule of rates drawn up in accordance with: â€œStandard System of Measuring Buildersâ€™ Workâ€•		
42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days The priced bills of quantities must be handed in with the tender		
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 Yes Where JBCC CPAP is to be used Base Month July 2010		
42.4.7 Details of changes made to the provision of JBCC standard documentation:		
<u>SECTION B: PRELIMINARIES</u>		
Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD	Carried Forward	R

		Brought Forward	R
	<u>Definitions and interpretation (B1)</u>		
146	Definition and interpretation (B1.1 - B1.4.6)		
	Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Documents (B2)</u>		
147	Checking of documents (B2.1)		
	Fixed: _____ Value related: _____ Time related: _____		Item
148	Provisional bills of quantities (B2.2) NA		
	Fixed: _____ Value related: _____ Time related: _____		Item
149	Availability of construction documentation (B2.3)		
	Fixed: _____ Value related: _____ Time related: _____		Item
150	Interests of agents (B2.4)		
	Fixed: _____ Value related: _____ Time related: _____		Item
151	Priced documents (B2.5)		
	Fixed: _____ Value related: _____ Time related: _____		Item
152	Tender submission (B2.6)		
	Fixed: _____ Value related: _____ Time related: _____		Item
153	Defined works area (B3.1)		
	Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD		

		Brought Forward	R
	<u>The site (B3)</u>		
154	Geotechnical investigation (B3.2) Fixed: _____ Value related: _____ Time related: _____		Item
155	Inspection of the site (B3.3) Fixed: _____ Value related: _____ Time related: _____		Item
156	Existing premises occupied (B3.4) Fixed: _____ Value related: _____ Time related: _____		Item
157	Previous work - dimensional accuracy (B3.5) Fixed: _____ Value related: _____ Time related: _____		Item
158	Previous work - defects (B3.6) Fixed: _____ Value related: _____ Time related: _____		Item
159	Services - known (B3.7) Fixed: _____ Value related: _____ Time related: _____		Item
160	Services - unknown (B3.8) Fixed: _____ Value related: _____ Time related: _____		Item
161	Protection of trees etc (B3.9) Fixed: _____ Value related: _____ Time related: _____		Item
162	Articles of value (B3.10) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Management of contract (B4)</u>		
163	Inspection of adjoining properties etc (B3.11) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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		Brought Forward	R
164	Management of the works (B4.1) Fixed: _____ Value related: _____ Time related: _____		Item
165	Programme for the works (B4.2) Fixed: _____ Value related: _____ Time related: _____		Item
166	Progress meetings (B4.3) Fixed: _____ Value related: _____ Time related: _____		Item
167	Technical meetings (B4.4) Fixed: _____ Value related: _____ Time related: _____		Item
168	Labour and Plant records (B4.5) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Samples, Shop Drawings and Manufacturer's Instructions (B5)</u>		
169	Samples of materials (B5.1) Fixed: _____ Value related: _____ Time related: _____		Item
170	Workmanship samples (B5.2) Fixed: _____ Value related: _____ Time related: _____		Item
171	Shop drawings (B5.3) Fixed: _____ Value related: _____ Time related: _____		Item
172	Compliance with Manufacturer's Instructions (B5.4) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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		Brought Forward	R
	<u>Temporary works and plant (B6)</u>		
173	Deposits and fees (B6.1) Fixed: _____ Value related: _____ Time related: _____		Item
174	Enclosure of the works (B6.2) Fixed: _____ Value related: _____ Time related: _____		Item
175	Advertising (B6.3) Fixed: _____ Value related: _____ Time related: _____		Item
176	Plant, equipment, sheds and offices (B6.4) Fixed: _____ Value related: _____ Time related: _____		Item
177	Main notice board (B6.5) Fixed: _____ Value related: _____ Time related: _____		Item
178	Subcontractors' notice board (B6.6) Not applicable		Item
	<u>Temporary services (B7)</u>		
179	Location (B7.1) Fixed: _____ Value related: _____ Time related: _____		Item
180	Water (B7.2) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____		Item
181	Electricity (B7.3) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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			R
	Brought Forward		
182	Telecommunication facilities (B7.4) Fixed: _____ Value related: _____ Time related: _____	Item	
183	Ablution facilities (B7.5) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>Prime cost amounts (B8)</u>		
184	Responsibility for prime cost amounts (B8.1) Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>Attendance on N/S Subcontractors (B9)</u>		
185	General attendance (B9.1) Fixed: _____ Value related: _____ Time related: _____	Item	
186	Special attendance (B9.2) Fixed: _____ Value related: _____ Time related: _____	Item	
187	Commissioning - Fuel, water and power (B9.3) Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>Financial aspects (B10)</u>		
188	Statutory taxes, duties and levies (B10.1) Fixed: _____ Value related: _____ Time related: _____	Item	
189	Payment of preliminaries (B10.2) Option [B] shall apply Fixed: _____ Value related: _____ Time related: _____	Item	
190	Adjustment of preliminaries (B10.3) Option [A] shall apply Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried Forward		
	Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD		R

		Brought Forward	R
191	Payment certificate cash flow (B10.4) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>General (B11)</u>		
192	Protection of works (B11.1) Fixed: _____ Value related: _____ Time related: _____		Item
193	Protection/isolation of existing/sectionally occupied works (B11.2) Fixed: _____ Value related: _____ Time related: _____		Item
194	Security of the Works (B11.3) Fixed: _____ Value related: _____ Time related: _____		Item
195	Notice before covering work (B11.4) Fixed: _____ Value related: _____ Time related: _____		Item
196	Disturbance (B11.5) Fixed: _____ Value related: _____ Time related: _____		Item
197	Works cleaning and clearing (B11.7) Fixed: _____ Value related: _____ Time related: _____		Item
198	Vermin (B11.8) Fixed: _____ Value related: _____ Time related: _____		Item
199	Overhand work (B11.9) Fixed: _____ Value related: _____ Time related: _____		Item
200	Instruction manuals and guarantees (B11.10) Fixed: _____ Value related: _____ Time related: _____		Item
		Carried Forward	R
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	Brought Forward		R
201	As built information (B11.11) Fixed: _____ Value related: _____ Time related: _____		Item
202	Tenant Installations (B11.12) Fixed: _____ Value related: _____ Time related: _____		Item
	<u>Schedule of variables (B12)</u>		
203	Pre-tender information (B12.1) Fixed: _____ Value related: _____ Time related: _____		Item
	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: No		
	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete	No	
	12.1.3 Interest of agents (B2.4)		
	12.1.4 Defined works area (B3.1)		
	12.1.5 Geotechnical investigation (B3.2) N/A		
	12.1.6 Existing premises occupied (B3.4)		
	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)		
	Carried Forward		R
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	Brought Forward	R
204	<p>Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
205	<p>Black economic empowerment and training</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
206	<p>Proprietary branded products</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
207	<p>Testing of flat roof waterproofing for water tightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the water tightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p>	Item
208	<p>Contract instructions</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p>	Item
209	<p>Labour record</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item
	Carried Forward	R
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		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		
210	Plant record		
	Fixed: _____ Value related: _____ Time related: _____		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		
211	Guarantees		
	Fixed: _____ Value related: _____ Time related: _____		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		
212	Overtime		
	Fixed: _____ Value related: _____ Time related: _____		Item
	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		
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

	Brought Forward	R
<p>213 Co-operation of contractor for cost management</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p>		Item
<p>214 Occupational Health and Safety Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p> <p><u>SUMMARY OF CATEGORIES</u></p> <p>Category : Fixed</p> <p>Category : Value</p> <p>Category : Time</p>		Item
	Carried to Final Summary	R
<p>Section No. 1 PRELIMINARIES AND GENERALS Bill No. 1 PRELIMINARIES PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.2</u>			
	<u>BILL No.1</u>			
	<u>RENOVATIONS</u>			
	<u>BUDGETARY ALLOWANCE</u>			
	<u>PITS AND ENVIROLOO COMPONENTS</u>			
	<u>BUDGETARY ALLOWANCES</u>			
1	Allow Provisional Amount of R 20 000.000 (Twenty Thousand Rand) of cleaning, jet wash vaults, pump liquid out vaults and desludging waste to municipal waste disposal site. Service provider to submit relevant and valid permit of disposal from Municipality to Principal Agent.	Item		
2	Profit and attendance for the above	Item		
	<u>INSPECTION BY " ENVIRO LOO"/SUPPLIER</u>			
3	Allow an amount of R 8000.00 (Eight Thousand Rand Only) for the two site visits to be made by the "Enviro Loo" suppliers to assist / support the contractor in the site audits and final inspection to be ascertain the enviro loo has been installed correctly at which time a certificate of compliance should be issued by Enviro Loo Option.	Item		
4	Profit and attendance for the above	Item		
	<u>ALTERATIONS</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Breaking down and removing mass concrete</u>			
5	100mm Thick apron	m2	65	
	Carried Forward		R	
	Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>Breaking down and removing brickwork etc</u>			
6	Half brick walls in beamfilling	m2	2
7	One brick walls in beamfilling	m2	2
8	One brick walls in pit	m2	5
9	Half brick wall in corbling	m	43
10	100mm High step urinal size 1000mm x 500mm Wide.	No	2
<u>Taking out and removing doors, windows, etc including threshold, sills, etc (building up openings elsewhere)</u>			
11	Single leaf timber door size 813 x 2032 mm high including lockset	No	12
<u>Taking down and removing roofs, gutters</u>			
12	Fibre-cement fascia boards size overall 250 x 15 mm thick	No	15
13	Single pitched roof size 5020mm Long x 5090mm Wide overall, of timber trusses and purlins, corrugated sheet steel.	No	2
<u>Hacking up/off and removing plaster finish, etc</u>			
14	Internal plaster in pits	m2	77
<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
15	Cleaning and scrubbing down existing face brick with mild detergent till clean	m2	25
<u>EXCAVATION TO REDUCE LEVELS</u>			
<u>Excavate in pickable material not exceeding 2m deep reduced ground level</u>			
16	Reduced levels around building	m3	11
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
17	For aprons	m3	65
<u>Extra over all excavations for carting away</u>			
18	Surplus excavated material to a dumping site to be located by the Contractor	m3	76
<u>Keeping excavations free of water</u>			
19	Keeping excavations free of all water other than subterranean water		Item
<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
20	Under aprons	m3	65
<u>Compaction of surfaces</u>			
21	Compaction of ground surface to around buildings including aprons etc including removing and re-compact materials done by previous contractor for a depth of 150mm layers adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	65
<u>Prescribed density tests on filling</u>			
22	"Modified AASHTO Density" test	No	6
<u>SOIL POISONING</u>			
<u>Soil insecticide in accordance with SANS 5859:</u>			
23	Soil insecticide (protection against termites) applied as specified under aprons, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	65
<u>UNREINFORCED CONCRETE,ETC</u>			
<u>25MPa/19mm concrete</u>			
24	Aprons cast in panels	m3	6
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
25	Thickening down apron on edge 110mm deep x 200mm wide.	m	54
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
26	Aprons and pavings to falls.	m2	65
<u>TEST BLOCKS</u>			
27	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	2
<u>FORMWORK</u>			
<u>Rough formwork to sides</u>			
28	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	54
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>			
29	Not exceeding 300mm high to edges of surface beds	m	38
<u>Saw cut joints</u>			
30	Saw cut joints in top of concrete (Provisional)	m	52
<u>REINFORCEMENT</u>			
<u>Fabric reinforcement:</u>			
31	Mesh ref type 193 fabric reinforcement fixed horizontal in aprons.	m2	65
<u>BRICKWORK</u>			
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>			
32	One brick walls in pit	m2	5
33	Half brick corbelling in pit	m	43
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
34	Half brick walls in beamfilling.	m2	2
35	One brick walls in beamfilling	m2	1
<u>FACE BRICKWORK</u>			
<u>Facebricks (Prime cost of R 5 500.00 per thousand excluding VAT delivered to the site) pointed with square recessed horizontal and vertical joints</u>			
36	One brick walls in beamfilling	m2	1
37	Extra over brickwork for face brickwork pointed on all exposed surfaces	m2	1
<u>Ventilation Bricks</u>			
38	Break down face brick wall, create opening and install set of two 22 x 155mm high terra cotta clay vermin proof air bricks and make good face bricks around new air bricks.	No	12
<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<p><u>0,58mm "Klip-Tite" profile Z275 spelter galvanised steel light industrial troughed interlocking roof sheeting in single lengths and accessories, with "Chromodek" and Traffic Green finish to one side, fixed to timber purlins:</u></p>			
39	Roof sheeting with single pitch not exceeding 25 degrees	m2	51
<p><u>ROOF AND WALL INSULATION</u></p>			
<p><u>"Sisalation 405" or similar approved residential grade aluminium foil based insulation:</u></p>			
40	Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps, including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	34
<p><u>RAINWATER DISPOSAL</u></p>			
<p><u>Aluzink seamless metal gutters:</u></p>			
41	100 x 100 x 0.6mm standard rainwater gutters	m	10
42	Extra over eaves gutter for closed ends	No	4
43	75 x 100 x 0.6mm Thick galvanised rainwater downpipes	m	14
44	Extra over rainwater pipe for eaves offset.	No	4
45	Ditto, for shoe.	No	4
<p><u>ROOFS, ETC</u></p>			
<p><u>Sawn softwood grade 5:</u></p>			
46	38 x 114mm Rafters in length exceeding 3.9m and not exceeding 6.6m	m	60
Carried Forward			R
<p>Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>			

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
 COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL**

Brought Forward			R
47	50 x 76mm Purlins	m	50
<u>Sundries</u>			
48	Two coats creosote on sawn timbers	m2	31
49	Hurricane Clips	No	98
<u>EAVES, VERGES, ETC</u>			
<u>Pressed fibre-cement</u>			
50	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	41
<u>DOORS ETC</u>			
51	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard	No	4
52	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side (door raised by 120mm from bottom)	No	8
<u>CATCHES, CABIN HOOKS, ETC</u>			
<u>"Approved"</u>			
53	150mm chrome cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	4
<u>LOCKS</u>			
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

		Brought Forward			R
	<u>Approved</u>				
54	50mm Brass padlock	No	4		
55	Four lever mortice lockset	No	4		
56	Indicator lockset	No	8		
	<u>DOORSTOPS</u>				
	<u>Approved</u>				
57	25mm Diameter rubber door stop plugged	No	16		
	<u>LETTERS, NAMEPLATES, ETC</u>				
	<u>"Dorma" or similar approved</u>				
58	DSS-130 Engraved " Female" information sign	No	2		
59	DSS-130 Engraved " Male" information sign	No	2		
	<u>BATHROOM FITTINGS</u>				
	<u>Kimberley-Clark or Similar:</u>				
60	Kimberly-Clark SQ2 code 405607B white lockable toilet roll holder	No	8		
	Carried Forward				R
	Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Brought Forward			R
<u>Sundries</u>			
61	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc.	No	4
62	Steel cage supplied with pad lock bolted to walls to accommodate and secure 15 Litre SHE-Bin.	No	4
<u>WELDED SCREENS, GATES ETC</u>			
<u>Steel gates and frames</u>			
63	Purpose made square hallow section mild security gate, size 813 x 2032mm high	No	4
<u>PLASTERING</u>			
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
64	On walls	m2	92
65	On pits walls	m2	77
66	On narrow width	m2	2
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
67	On walls	m2	54
68	On narrow width	m2	2
<u>FLOOR AND WALL SEALERS</u>			
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>Minimum two coats approved epoxy coat</u>			
69	On screed	m2	25
70	On floors and walls in pit	m2	89
<u>PLUMBING</u>			
<u>SANITARY FITTINGS</u>			
<u>Inspect and replace damaged or missing components, accessories, etc according to supplier's instruction and audit reports.</u>			
71	Remove and replace standard ceramic bowl and make good floor finishes.	No	8
72	Supply and install standard toilet seat, lid and sticker.	No	8
73	Supply and install wall sign	No	8
74	Supply and fit large Inspection Cover (No hinge)	No	4
75	Remove and replace single flat retrofit drying plate including drill round holes for inlets.	No	8
76	Remove and replace current round inlets	No	16
77	Supply and install oval vent pipe adaptor to round (Oval to round)	No	4
78	Remove and replace oval and round vent pipe with 2800mm Vent Pipe	No	8
79	Supply and fit vent pipe brackets	No	8
80	Remove and replace 230mm Galvanised windmaster	No	8
81	Securing screws complete	No	48
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
82	Supply compost and enzyme	No	8
83	Supply toilet cleaner	No	8
84	Supply lime	No	8
<u>"Vaal"</u>			
85	Flat back urinal overall size 295 x 315 x 415mm high with 40mm chromium plated domical grating (Code 878720) and top inlet spreader (Code 8543) with two hanger brackets with flushmaster junior (Code 812720) hung to wall	No	4
<u>Supply and Install Precast concrete wash trough:</u>			
86	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, including all necessary pipework including soak away approximately 10 meters away from the wash trough, sized at 1000 x 1000 x 1000mm covered with "bidim" complete et	No	2
<u>TRAPS ETC</u>			
<u>Chromium plated</u>			
87	32 x 40mm Bottle trap	No	4
88	"Flushmaster Junior" urinal flush valve.	No	4
<u>TAPS, VALVES, ETC</u>			
<u>"Cobra Watertech"</u>			
89	15mm 128 CP Star underwall pattern stopcock.	No	4
90	19mm chrome plated push button tap	No	4
<u>SANITARY PLUMBING</u>			
Carried Forward			R
Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
	<u>uPVC pipes</u>		
91	50mm Pipe	m	10
92	110mm Pipes to soakaway	m	5
	<u>Extra over uPVC pipes for fittings</u>		
93	50mm Bend	No	8
94	50mm Junction	No	4
95	50mm Access bend	No	4
96	110mm Bend	No	4
97	110mm Junction	No	2
98	110mm Reducing Junction	No	2
	<u>WATER SUPPLIES</u>		
	<u>Class 12 HDPE pressure pipes with solvent welded joints</u>		
99	32mm Pipes laid in and including trenches not exceeding 1m deep	m	15
	<u>Extra over class 12 HDPE pressure pipes for fittings with solvent welded joints</u>		
100	32mm Bend	No	2
101	32mm Reducer	No	2
102	32mm Tee	No	2
103	50mm Bend	No	2
	<u>Class 1 copper pipes with capillary couplings:</u>		
104	15mm Pipe fixed to walls, in chases, etc	m	10
105	Ditto, but 22mm diameter	m	8
	Carried Forward		R
	Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
	<u>Extra over Class 1 copper pipes for capillary fittings:</u>		
106	15mm Fittings	No	4
107	22mm Fittings	No	3
	<u>Brass</u>		
108	22mm Fullway gate valve	No	2
	<u>GLAZING TO STEEL WITH PUTTY</u>		
	<u>6.38 mm Obscure safety glass:</u>		
109	Panes not exceeding 0,1m2	m2	8
	<u>PAINTWORK</u>		
	<u>NEW WORK</u>		
	<u>ON FLOATED PLASTER</u>		
	<p><u>Plascon Wall & All Suede Sheen Finish to interior new cement plaster. Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer with an overcoating time of 16 hours and finish with two coats of Plascon Wall & All Suede Sheen Finish with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u></p>		
110	On internal walls	m2	94
	Carried Forward		R
	<p>Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
	<p><u>Plascon Wall & All Suede Sheen Finish to exterior new cement plaster. Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer with an overcoating time of 16 hours and finish with two coats of Plascon Wall & All Suede Sheen Finish with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u></p>		
111	On external walls	m2	56
	<u>ON FIBRE-CEMENT</u>		
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use, on:</u>		
112	On fascias and barge boards.	m2	10
	<u>ON METAL</u>		
	<u>Spot priming defects in prime surface with zinc chromate primer, one universal undercoat and two golden brown gloss enamel on steel</u>		
113	On gates (measured over the full flat area both sides)	m2	13
114	On gutters and down pipes	m	24
	<u>ON WOOD</u>		
	<u>Three coats matt varnish</u>		
115	On doors (Internal and External)	m2	42
	<u>PAINT TO PREVIOUSLY PAINTED SURFACES</u>		
	<u>ON METAL</u>		
	Carried Forward		R
	Section No. 2 RENOVATIONS Bill No. 1 Renovations PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.3</u>			
	<u>BILL No.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	For aprons thickening	m3	1	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles by previous contractor on site to a dumping site to be located by the new contractor	m3	47	
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water		Item	
	<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
5	Around buildings (Excavations carried by previous contractor).	m3	33	
	Carried Forward			R
	Section No. 3 Type SM3+3UR Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
 COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>Compaction of surfaces</u>		
6	Compaction of ground surface to around buildings including aprons etc including removing and re-compact materials done by previous contractor for a depth of 150mm layers adding suitable material where necessary and compacting to 95% Mod AASHTO density	36
	m2	
<u>Prescribed density tests on filling</u>		
7	"Modified AASHTO Density" test	5
	No	
<u>SOIL POISONING</u>		
<u>Soil insecticide in accordance with SANS 5859:</u>		
8	Soil insecticide (protection against termites) applied as specified under aprons, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	36
	m2	
Carried Forward to Summary of Section No. 3		R
Section No. 3		
Type SM3+3UR		
Bill No. 1		
Earthworks		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.3</u>			
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>UNREINFORCED CONCRETE,ETC</u>			
	<u>25MPa/19mm concrete</u>			
1	Aprons cast in panels	m3	5	
2	Thickening down apron on edge 110mm deep x 200mm wide.	m	30	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
3	Aprons and pavings to falls.	m2	36	
	<u>TEST BLOCKS</u>			
4	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	1	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides</u>			
5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	61	
	Carried Forward			R
	Section No. 3 Type SM3+3UR Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>			
6	Not exceeding 300mm high to edges of surface beds	m	30	
	<u>Saw cut joints</u>			
7	Saw cut joints in top of concrete (Provisional)	m	30	
	<u>REINFORCEMENT</u>			
	<u>Fabric reinforcement:</u>			
8	Mesh ref type 193 fabric reinforcement fixed horizontal in aprons.	m2	36	
Carried Forward to Summary of Section No. 3				R
Section No. 3 Type SM3+3UR Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BUILDER'S WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to used - PW 371"</p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in ho and humid coastal areas</p> <p><u>Face Bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
Carried Forward			R
<p>Section No. 3 Type SM3+3UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<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>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>SUPERSTRUCTURE</u>		
<u>FACE BRICKWORK</u>		
<u>Brick-on-edge header course copings, sills, etc using Corobrick Letaba Satin" or similar approved face bricks available on site pointed with polished recessed joints on all exposed faces (Provisional)</u>		
1	150mm Wide sills set sloping and slightly projecting.	m 2
2	110mm Wide sills set flat	m 6
3	Coping on top of half brick wall	m 8
<u>Ventilation bricks</u>		
4	Break down face brick wall, create opening and install set of two 22 x 155mm high terra cotta clay vermin proof air bricks and make good face bricks around new air bricks.	No 8
Carried Forward to Summary of Section No. 3		R
Section No. 3		
Type SM3+3UR		
Bill No. 3		
Masonry		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>REMEDIAL WORKS</u>			
	<u>Carefully remove existing 0,58mm "Klip-Tite" profile Z275 spelter galvanised steel light industrial troughed interlocking roof sheeting including clips and set aside for re-use.</u>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	35	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>Re-use 0,58mm "Klip-Tite" profile Z275 spelter galvanised steel light industrial troughed interlocking roof sheeting in single lengths and accessories, with "Chromodek" and Traffic Green finish to one side, fixed to timber purlins:</u>			
2	Labour to install roof coverings using existing roof sheeting including supply of new clips where necessary with single pitch not exceeding 25 degrees	m2	35	
	<u>ROOF AND WALL INSULATION</u>			
	Carried Forward			R
	Section No. 3 Type SM3+3UR Bill No. 4 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>Remove existing sisalation and replace with new "Sisalation 405" or similar approved residential grade aluminium foil based insulation:</u>		
3	Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps, including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2 21
<u>RAINWATER DISPOSAL</u>		
<u>Aluzink seamless metal gutters:</u>		
4	100 x 100 x 0.6mm standard rainwater gutters	m 7
5	Extra over eaves gutter for closed ends	No 2
6	75 x 100 x 0.6mm Thick galvanised rainwater downpipes	m 5
7	Extra over rainwater pipe for eaves offset.	No 2
8	Ditto, for shoe.	No 2
Carried Forward to Summary of Section No. 3		R
Section No. 3		
Type SM3+3UR		
Bill No. 4		
Roof Coverings		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 5</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>Allow for the preparation and submission of the following documents in respect of building.</u>			
1	Erection of roof guarantee certificate after the whole completed roof truss structure including completion of work carried out by previous contractor have been inspected, all defective work have been carried out and make good to the full satisfaction of the principal agent.	Item		
	<u>REMEDIAL WORKS</u>			
	<u>Carefully remove and set aside for re-use sawn softwood grade 5:</u>			
2	50 x 76mm Purlins	m	49	
	<u>ROOFS, ETC</u>			
	<u>Sawn softwood grade 5:</u>			
3	Supply and install 50 x 76mm Purlins fixed on existing roof timbers (rafters).	m	49	
4	Labour to fix 50 x 76mm Purlins previously set-aside fixed on brickwork between roof timbers (top eaves and verges both sides).	m	21	
	<u>Sundries</u>			
5	Two coats creosote on sawn timbers	m2	26	
	Carried Forward			R
	Section No. 3 Type SM3+3UR Bill No. 5 Carpentry and Joinery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

		Brought Forward		R
6	Hurricane Clips	No	32	
		<u>EAVES, VERGES, ETC</u>		
		<u>Medium density plain fibre-cement fascias and barge boards:</u>		
7	19 x 235mm Fascias and barge boards, including aluminium H-profile jointing strips	m	24	
		<u>DOORS ETC</u>		
		<u>Wrought meranti doors hung to steel frames:</u>		
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding including 150mm undercut	No	3	
9	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard	No	1	
Carried Forward to Summary of Section No. 3				R
Section No. 3				
Type SM3+3UR				
Bill No. 5				
Carpentry and Joinery				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 6</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>CATCHES, CABIN HOOKS, ETC</u>			
	<u>"Approved"</u>			
1	150mm chrome cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	1	
	<u>LOCKS</u>			
	<u>"Union Assa Abloy" or similar approved:</u>			
2	50mm Brass padlock	No	1	
3	Four lever lockset	No	1	
4	"Ref. CZ80941SC" Indicator bolt	No	3	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	<u>"Dorma" or similar approved</u>			
5	DSS-130 Engraved "Male" information sign	No	1	
	<u>SUNDRIES</u>			
6	25mm Diameter wall mounted door stop plugged on walls and floors.	No	5	
	Carried Forward			R
	Section No. 3 Type SM3+3UR Bill No. 6 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<p><u>SECTION. 3</u></p> <p><u>BILL NO. 7</u></p> <p><u>METALWORK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to used - PW 371"</p> <p><u>STEEL GATES, SCREENS, ETC</u></p> <p><u>Welded screens and gates, to brickwalls:</u></p>			
1	Single gate and frame size to fit standard door, size 813 x 2032mm high	No	1	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Type SM3+3UR Bill No. 7 Metalwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 9</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal"</u>			
1	Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (Code : 7023) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts (product code 8448Z0).	No	2	
2	"Daisy Elite" 772403 close-coupled WC suite comprising pan with double flap heavy duty thermoset seat (Code: 8531Z0) and matching 9 litre cistern	No	3	
3	Flat back urinal overall size 295 x 315 x 415mm high with 40mm chromium plated domical grating (Code 878720) and top inlet spreader (Code 8543) with two hanger brackets with flushmaster junior (Code 812720) hung to wall	No	3	
	<u>WASTE UNIONS ETC</u>			
	<u>"Cobra Watertech"</u>			
4	38mm "Cobra 316" unslotted waste and plug with chain	No	2	
	<u>TRAPS ETC</u>			
	Carried Forward			R
	Section No. 3 Type SM3+3UR Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>"Marley"</u>			
5	40mm Flexi butyl rubber trap with reseal "P" trap	No	2
<u>Chromium plated</u>			
6	32 x 40mm Bottle trap	No	5
<u>TAPS, VALVES, ETC</u>			
<u>"Cobra Watertech"</u>			
7	19mm chrome plated push button tap	No	2
8	15mm Code 232/350 FCP angle regulating valve and flexible connection pipe	No	5
9	15mm 128 CP Star underwall pattern stopcock.	No	2
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
10	50mm Pipe	m	7
11	110mm Pipes	m	15
12	50mm Pipes laid in and including trenches not exceeding 1m deep	m	6
13	Ditto, but 110mm diameter	m	2
<u>Extra over uPVC pipes for fittings</u>			
14	50mm Bend	No	5
15	50mm Junction	No	5
16	50mm Junction with cleaning eye and lid	No	5
17	110mm Straight pan connector	No	3
Carried Forward			R
Section No. 3 Type SM3+3UR Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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 CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
 COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
18	50mm "GI Two-way" vent valve	No	3
19	110mm Bend	No	3
20	110mm Junction	No	3
21	110mm Reducing Junction	No	2
22	110mm uPVC rodding eye cover in end of pipe	No	1
23	110mm Access bend	No	3
24	110mm Double Junction	No	1
25	110mm "GI Two-way" vent valve	No	3
<u>Sundries</u>			
26	Precast concrete inspection eye marker slab set in ground	No	1
<u>Sundries</u>			
27	Testing waste pipe system		Item
<u>WATER SUPPLIES</u>			
<u>Class 1 copper pipes with capillary couplings:</u>			
28	15mm Pipe fixed to walls, in chases, etc	m	40
29	Ditto, but 22mm diameter	m	20
<u>Extra over Class 1 copper pipes for capillary fittings:</u>			
30	15mm Fittings	No	10
31	22mm Fittings	No	5
<u>Brass</u>			
32	22mm Fullway gate valve	No	5
Carried Forward			R
Section No. 3 Type SM3+3UR Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

	Brought Forward		R	
<u>Sundries</u>				
33	Testing water pipe system	Item		
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3			
	Type SM3+3UR			
	Bill No. 9			
	Plumbing and Drainage (Provisional)			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6.38 mm Obscure safety glass:</u>			
1	Panes not exceeding 0,1m2	m2	3	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 Type SM3+3UR Bill No. 10 Glazing			R
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use, on:</u>			
1	On fascias and barge boards.	m2	7	
	<u>ON METAL</u>			
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel:</u>			
2	On door frames	m2	3	
3	On windows with burglar bars	m2	8	
4	On gates (measured over the full flat area both sides)	m2	3	
5	On gutters and down pipes	m	12	
	<u>Spot priming defects in prime surface with zinc chromate primer, one universal undercoat and two golden brown gloss enamel on steel</u>			
	<u>ON WOOD</u>			
	Carried Forward			R
	Section No. 3 Type SM3+3UR Bill No. 11 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
6	<u>Three coats matt varnish</u> On doors (Internal and External)	m2	15	
Carried Forward to Summary of Section No. 3				
Section No. 3 Type SM3+3UR Bill No. 11 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD				R

Bill No		Page No		Amount
	Section No. 3			
	Type SM3+3UR			
	<u>SECTION SUMMARY - Type SM3+3UR</u>			
1	Earthworks	60		
2	Concrete, Formwork and Reinforcement	62		
3	Masonry	64		
4	Roof Coverings	66		
5	Carpentry and Joinery	68		
6	Ironmongery	70		
7	Metalwork	71		
8	Plastering	72		
9	Plumbing and Drainage (Provisional)	76		
10	Glazing	77		
11	Paintwork	79		
	Carried to Final Summary			
	Section No. 3			
	Type SM3+3UR			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			
			R	

Item No		Quantity	Rate	Amount
	<u>SECTION No.4</u>			
	<u>BILL No.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	For aprons thickening	m3	1	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles by previous contractor on site to a dumping site to be located by the new contractor	m3	47	
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water		Item	
	<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
5	Around buildings (Excavations carried by previous contractor).	m3	33	
	Carried Forward			R
	Section No. 4 Type SFD4 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>Compaction of surfaces</u>		
6	Compaction of ground surface to around buildings including aprons etc including removing and re-compact materials done by previous contractor for a depth of 150mm layers adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2 36
<u>Prescribed density tests on filling</u>		
7	"Modified AASHTO Density" test	No 5
<u>SOIL POISONING</u>		
<u>Soil insecticide in accordance with SANS 5859:</u>		
8	Soil insecticide (protection against termites) applied as specified under aprons, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2 36
Carried Forward to Summary of Section No. 4		R
Section No. 4		
Type SFD4		
Bill No. 1		
Earthworks		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>UNREINFORCED CONCRETE,ETC</u>			
	<u>25MPa/19mm concrete</u>			
1	Aprons cast in panels	m3	5	
2	Thickening down apron on edge 110mm deep x 200mm wide.	m	30	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
3	Aprons and pavings to falls.	m2	36	
	<u>TEST BLOCKS</u>			
4	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	1	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides</u>			
5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	61	
	Carried Forward			R
	Section No. 4 Type SFD4 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 4</u></p> <p><u>BUILDER'S WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to used - PW 371"</p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in ho and humid coastal areas</p> <p><u>Face Bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
Carried Forward			R
<p>Section No. 4 Type SFD4 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<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>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>SUPERSTRUCTURE</u>		
<u>FACE BRICKWORK</u>		
<u>Brick-on-edge header course copings, sills, etc using Corobrick Letaba Satin" or similar approved face bricks available on site pointed with polished recessed joints on all exposed faces (Provisional)</u>		
1	Construct 150mm Wide sills set sloping and slightly projecting.	m 2
2	Construct 110mm Wide sills set flat	m 6
3	Coping on top of half brick wall	m 9
<u>Ventilation bricks</u>		
4	Break down face brick wall, create opening and install set of two 22 x 155mm high terra cotta clay vermin proof air bricks and make good face bricks around new air bricks.	No 8
Carried Forward to Summary of Section No. 4		R
Section No. 4		
Type SFD4		
Bill No. 3		
Masonry		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 4</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>REMEDIAL WORKS</u>			
	<u>Carefully remove existing 0,58mm "Klip-Tite" profile Z275 spelter galvanised steel light industrial troughed interlocking roof sheeting including clips and set aside for re-use.</u>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	36	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>Re-use 0,58mm "Klip-Tite" profile Z275 spelter galvanised steel light industrial troughed interlocking roof sheeting in single lengths and accessories, with "Chromodek" and Traffic Green finish to one side, fixed to timber purlins:</u>			
2	Labour to install roof coverings using existing roof sheeting including supply of new clips where necessary with single pitch not exceeding 25 degrees	m2	36	
	<u>ROOF AND WALL INSULATION</u>			
	Carried Forward			R
	Section No. 4 Type SFD4 Bill No. 4 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<p><u>Remove existing sisalation and replace with new "Sisalation 405" or similar approved residential grade aluminium foil based insulation:</u></p>		
3	Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps, including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2 24
<p><u>RAINWATER DISPOSAL</u></p>		
<p><u>Aluzink seamless metal gutters:</u></p>		
4	100 x 100 x 0.6mm standard rainwater gutters	m 7
5	Extra over eaves gutter for closed ends	No 2
6	75 x 100 x 0.6mm Thick galvanised rainwater downpipes	m 3
7	Extra over rainwater pipe for eaves offset.	No 2
8	Ditto, for shoe.	No 2
<p>Carried Forward to Summary of Section No. 4</p>		R
<p>Section No. 4 Type SFD4 Bill No. 4 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 5</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>Allow for the preparation and submission of the following documents in respect of building.</u>			
1	<u>Erection</u> of roof guarantee certificate after the whole completed roof truss structure including completion of work carried out by previous contractor have been inspected, all defective work have been carried out and make good to the full satisfaction of the principal agent.	Item		
	<u>REMEDIAL WORKS</u>			
	<u>Carefully remove and set aside for re-use sawn softwood grade 5:</u>			
2	50 x 76mm Purlins	m	50	
	<u>ROOFS, ETC</u>			
	<u>Sawn softwood grade 5:</u>			
3	Supply and install 50 x 76mm Purlins fixed on existing roof timbers (rafters).	m	50	
4	Labour to fix 50 x 76mm Purlins previously set-aside fixed on brickwork between roof timbers (top eaves and verges both sides).	m	21	
	<u>Sundries</u>			
5	Two coats creosote on sawn timbers	m2	26	
	Carried Forward			R
	Section No. 4 Type SFD4 Bill No. 5 Carpentry and Joinery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

		Brought Forward		R
6	Hurricane Clips	No	32	
		<u>EAVES, VERGES, ETC</u>		
		<u>Medium density plain fibre-cement fascias and barge boards:</u>		
7	19 x 235mm Fascias and barge boards, including aluminium H-profile jointing strips	m	24	
		<u>DOORS ETC</u>		
		<u>Wrought meranti doors hung to steel frames:</u>		
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding including 150mm undercut	No	4	
9	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard	No	1	
10	44mm Framed batten door 914 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard.	No	1	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Type SFD4				
Bill No. 5				
Carpentry and Joinery				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 6</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>CATCHES, CABIN HOOKS, ETC</u>			
	<u>"Approved"</u>			
1	150mm chrome cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	2	
	<u>LOCKS</u>			
	<u>"Union Assa Abloy" or similar approved:</u>			
2	50mm Brass padlock	No	2	
3	Four lever lockset	No	2	
4	"Ref. CZ80941SC" Indicator bolt	No	4	
	<u>HANDLES</u>			
	<u>"Union Assa Abloy" or similar approved:</u>			
5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres	Pairs	1.0	
	<u>BOLTS, DOOR CLOSER, FLOOR SPRING, ETC.</u>			
6	"Dorma" TS73N/EN3-4 parallel arm door closer delayed closing-push side fitting.	No	1	
	Carried Forward			R
	Section No. 4 Type SFD4 Bill No. 6 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
<u>PUSH PLATES AND KICK PLATES</u>			
<u>"Union Assa Abloy" or similar approved</u>			
<u>1.2mm Thick satin finished "Union" stainless steel plates countersunk screwed along edges at not exceeding 200mm centre</u>			
7	200 x 900mm Type "SS5089-200W" kicking plate	No	1
<u>LETTERS, NAMEPLATES, ETC</u>			
<u>"Dorma" or similar approved</u>			
8	DSS-130 Engraved "Female" information sign	No	1
9	DSS-131 Engraved "Disabled" information sign	No	1
<u>SUNDRIES</u>			
10	25mm Diameter wall mounted door stop plugged	No	7
<u>BATHROOM FITTINGS</u>			
<u>"Vaal Paragon" or similar approved</u>			
11	32mm Type 9 back grab rail 800mm long plugged	No	1
12	32mm Type 8 side grab rail 900mm girth plugged	No	1
<u>Kimberley-Clark or Similar:</u>			
13	Kimberly-Clark SQ2 code 405607B white lockable toilet roll holder	No	5
<u>Sundries</u>			
14	Brushed stainless steel body, rust resistant, shoe bin, approximately 330 x 280 x 180mm etc.	No	5
Carried Forward			R
Section No. 4 Type SFD4 Bill No. 6 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

	Brought Forward			R
15	Steel cage supplied with pad lock bolted to walls to accommodate and secure 15 Litre SHE-Bin.	No	5	
Carried Forward to Summary of Section No. 4				R
Section No. 4 Type SFD4 Bill No. 6 Ironmongery				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Item No		Quantity	Rate	Amount
	<u>SECTION. 4</u>			
	<u>BILL NO. 7</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>STEEL GATES, SCREENS, ETC</u>			
	<u>Welded screens and gates, to brickwalls:</u>			
1	Single gate and frame size to fit standard door, size 813 x 2032mm high	No	1	
2	Single gate and frame size to fit standard door, size 914 x 2032mm high	No	1	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Type SFD4			
	Bill No. 7			
	Metalwork			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 8</u></p> <p><u>PLASTERING</u></p> <p>For preambles see "Specifications of materials and methods to used - PW 371"</p> <p><u>FLOOR AND WALL SEALERS</u></p> <p><u>Minimum two coats approved epoxy coat</u></p>			
1	On screed	m2	13	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 Type SFD4 Bill No. 8 Plastering PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 9</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>SANITARY FITTINGS</u>			
	<u>"Vaal"</u>			
1	Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (Code : 7023) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts (product code 8448Z0).	No	4	
2	Vaal Protea Paraplegic floor mounted washdown suite (Code 750200) comprising 90 degree outlet pan and matching 9 litre cistern (Code 710631) complete with purpose made chromium plated side flushing lever mounted on wall adjacent to cistern including lid, fittings and heavy duty toilet seat	No	1	
3	"Daisy Elite" 772403 close-coupled WC suite comprising pan with double flap heavy duty thermoset seat (Code: 8531Z0) and matching 9 litre cistern	No	4	
	<u>WASTE UNIONS ETC</u>			
	<u>"Cobra Watertech"</u>			
4	38mm "Cobra 316" unslotted waste and plug with chain	No	4	
	<u>TRAPS ETC</u>			
	Carried Forward			R
	Section No. 4 Type SFD4 Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
	<u>"Marley"</u>		
5	40mm Flexi butyl rubber trap with reseal "P" trap	No	4
	<u>Chromium plated</u>		
6	32 x 40mm Bottle trap	No	9
	<u>TAPS, VALVES, ETC</u>		
	<u>"Cobra Watertech"</u>		
7	19mm chrome plated push button tap	No	4
8	15mm Code 232/350 FCP angle regulating valve and flexible connection pipe	No	9
9	Cobra Watertech 15mm chrome plated hi-waste elbow action pillartap with blue indicator for cold water (Code: 504-21B), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	1
	<u>SANITARY PLUMBING</u>		
	<u>uPVC pipes</u>		
10	50mm Pipe	m	18
11	110mm Pipes	m	22
12	50mm Pipes laid in and including trenches not exceeding 1m deep	m	5
13	Ditto, but 110mm diametre	m	3
	<u>Extra over uPVC pipes for fittings</u>		
14	50mm Bend	No	9
15	50mm Junction	No	9
16	50mm Junction with cleaning eye and lid	No	5
	Carried Forward		R
	Section No. 4 Type SFD4 Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
17	110mm Straight pan connector	No	5
18	50mm "GI Two-way" vent valve	No	5
19	110mm Bend	No	9
20	110mm Junction	No	9
21	110mm Reducing Junction	No	1
22	110mm uPVC rodding eye cover in end of pipe	No	1
23	110mm Access bend	No	5
24	110mm Double Junction	No	13
25	110mm "GI Two-way" vent valve	No	5
<u>Sundries</u>			
26	Precast concrete inspection eye marker slab set in ground	No	1
<u>Sundries</u>			
27	Testing waste pipe system		Item
<u>WATER SUPPLIES</u>			
<u>Class 1 copper pipes with capillary couplings:</u>			
28	15mm Pipe fixed to walls, in chases, etc	m	45
29	Ditto, but 22mm diameter	m	20
<u>Extra over Class 1 copper pipes for capillary fittings:</u>			
30	15mm Fittings	No	10
31	22mm Fittings	No	12
Carried Forward			R
Section No. 4 Type SFD4 Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
	<u>Brass</u>			
32	22mm Fullway gate valve	No	9	
	<u>Sundries</u>			
33	Testing water pipe system		Item	
Carried Forward to Summary of Section No. 4				
Section No. 4				
Type SFD4				
Bill No. 9				
Plumbing and Drainage (Provisional)				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6.38 mm Obscure safety glass:</u>			
1	Panes not exceeding 0,1m2	m2	3	
	Carried Forward to Summary of Section No. 4			
	Section No. 4			
	Type SFD4			
	Bill No. 10			
	Glazing			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			
			R	

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use, on:</u>			
1	On fascias and barge boards.	m2	7	
	<u>ON METAL</u>			
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel:</u>			
2	On door frames	m2	5	
3	On windows with burglar bars	m2	7	
4	On gates (measured over the full flat area both sides)	m2	7	
5	On gutters and down pipes	m	10	
	<u>Spot priming defects in prime surface with zinc chromate primer, one universal undercoat and two golden brown gloss enamel on steel</u>			
	<u>ON WOOD</u>			
	Carried Forward			R
	Section No. 4 Type SFD4 Bill No. 11 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

		Brought Forward		R
6	<u>Three coats matt varnish</u> On doors (Internal and External)	m2	21	
Carried Forward to Summary of Section No. 4				R
Section No. 4 Type SFD4 Bill No. 11 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD				

		Page No	Amount
	Section No. 4		
	Type SFD4		
	<u>SECTION SUMMARY - Type SFD4</u>		
Bill No			
1	Earthworks	82	
2	Concrete, Formwork and Reinforcement	84	
3	Masonry	86	
4	Roof Coverings	88	
5	Carpentry and Joinery	90	
6	Ironmongery	93	
7	Metalwork	94	
8	Plastering	95	
9	Plumbing and Drainage (Provisional)	99	
10	Glazing	100	
11	Paintwork	102	
	Carried to Final Summary		R
	Section No. 4		
	Type SFD4		
	PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.5</u>			
	<u>BILL No.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	For aprons thickening	m3	1	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles by previous contractor on site to a dumping site to be located by the new contractor	m3	60	
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water		Item	
	<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
5	Around buildings (Excavations carried out by previous contractor).	m3	45	
	Carried Forward			R
	Section No. 5 Type M4+8UR Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
 COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>Compaction of surfaces</u>		
6	Compaction of ground surface to around buildings including aprons etc including removing and re-compact materials done by previous contractor for a depth of 150mm layers adding suitable material where necessary and compacting to 95% Mod AASHTO density	50
	m2	
<u>Prescribed density tests on filling</u>		
7	"Modified AASHTO Density" test	7
	No	
<u>SOIL POISONING</u>		
<u>Soil insecticide in accordance with SANS 5859:</u>		
8	Soil insecticide (protection against termites) applied as specified under aprons, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	31
	m2	
Carried Forward to Summary of Section No. 5		R
Section No. 5		
Type M4+8UR		
Bill No. 1		
Earthworks		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

Item No		Quantity	Rate	Amount
	<u>SECTION NO.5</u>			
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>SECTION NO.2</u>			
	<u>UNREINFORCED CONCRETE,ETC</u>			
	<u>25MPa/19mm concrete</u>			
1	Aprons cast in panels	m3	4	
2	Thickening down apron on edge 110mm deep x 200mm wide.	m	33	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
3	Aprons and pavings to falls.	m2	40	
	<u>TEST BLOCKS</u>			
4	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	1	
	<u>FORMWORK</u>			
	Carried Forward			R
	Section No. 5 Type M4+8UR Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
	<u>Rough formwork to sides</u>			
5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	33	
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>			
6	Not exceeding 300mm high to edges of surface beds	m	23	
	<u>Saw cut joints</u>			
7	Saw cut joints in top of concrete (Provisional)	m	33	
	<u>REINFORCEMENT</u>			
	<u>Fabric reinforcement:</u>			
8	Mesh ref type 193 fabric reinforcement fixed horizontal in aprons.	m2	40	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5			
	Type M4+8UR			
	Bill No. 2			
	Concrete, Formwork and Reinforcement			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 5</u></p>			
<p><u>BUILDER'S WORK</u></p>			
<p><u>BILL NO. 3</u></p>			
<p><u>MASONRY</u></p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p>For preambles see "Specifications of materials and methods to used - PW 371"</p>			
<p><u>BRICKWORK</u></p>			
<p><u>Sizes in descriptions</u></p>			
<p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p>			
<p><u>Hollow walls etc</u></p>			
<p>Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.</p>			
<p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p>			
<p>User note: The above preamble generally applies for works in ho and humid coastal areas</p>			
<p><u>Face Bricks</u></p>			
<p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
<p>Carried Forward</p>			
<p>Section No. 5 Type M4+8UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>			R

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<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>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>SUPERSTRUCTURE</u>		
<u>FACE BRICKWORK</u>		
<u>Brick-on-edge header course copings, sills, etc using Corobrick Letaba Satin" or similar approved face bricks available on site pointed with polished recessed joints on all exposed faces (Provisional)</u>		
1	150mm Wide sills set sloping and slightly projecting.	m 6
2	110mm Wide sills set flat	m 6
3	Coping on top of half brick wall	m 11
<u>Ventilation bricks</u>		
4	Break down face brick wall, create opening and install set of two 22 x 155mm high terra cotta clay vermin proof air bricks and make good face bricks around new air bricks.	No 9
Carried Forward to Summary of Section No. 5		R
Section No. 5 Type M4+8UR Bill No. 3 Masonry		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 4</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,58mm "Klip-Tite" profile Z275 (roof sheeting materials available on site) spelter galvanised steel light industrial troughed interlocking roof sheeting in single lengths and accessories, with "Chromodek" and Traffic Green finish to one side, fixed to timber purlins:</u>			
1	Labour to install roof coverings using existing roof sheeting including supply of new clips where necessary with single pitch not exceeding 25 degrees	m2	35	
	<u>ROOF AND WALL INSULATION</u>			
	<u>"Sisalation 405" or similar approved residential grade aluminium foil based insulation:</u>			
2	Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps, including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	21	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm standard rainwater gutters	m	7	
	Carried Forward			R
	Section No. 5 Type M4+8UR Bill No. 4 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
4	Extra over eaves gutter for closed ends	No	4
5	75 x 100 x 0.6mm Thick galvanised rainwater downpipes	m	4
6	Extra over rainwater pipe for eaves offset.	No	4
7	Ditto,for shoe.	No	4
Carried Forward to Summary of Section No. 5			R
Section No. 5 Type M4+8UR Bill No. 4 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 5</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>Allow for the preparation and submission of the following documents in respect of building.</u>			
1	<u>Erection</u> of roof guarantee certificate after the whole completed roof truss structure including completion of work carried out by previous contractor have been inspected, all defective work have been carried out and make good to the full satisfaction of the principal agent.	Item		
	<u>REMEDIAL WORKS</u>			
	<u>Carefully remove and set aside for re-use sawn softwood grade 5:</u>			
2	50 x 76mm Purlins	m	49	
	<u>ROOFS, ETC</u>			
	<u>Sawn softwood grade 5:</u>			
3	Supply and install 50 x 76mm Purlins fixed on existing roof timbers (rafters).	m	49	
4	Labour to fix 50 x 76mm Purlins previously set-aside fixed on brickwork between roof timbers (top eaves and verges both sides).	m	21	
	<u>Sundries</u>			
5	Two coats creosote on sawn timbers	m2	26	
	Carried Forward			R
	Section No. 5 Type M4+8UR Bill No. 5 Carpentry and Joinery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

		Brought Forward		R
6	Hurricane Clips	No	63	
		<u>EAVES, VERGES, ETC</u>		
		<u>Medium density plain fibre-cement fascias and barge boards:</u>		
7	19 x 235mm Fascias and barge boards, including aluminium H-profile jointing strips	m	24	
		<u>DOORS ETC</u>		
		<u>Wrought meranti doors hung to steel frames:</u>		
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding including 150mm undercut.	No	4	
9	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard.	No	1	
Carried Forward to Summary of Section No. 5				R
Section No. 5				
Type M4+8UR				
Bill No. 5				
Carpentry and Joinery				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 6</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>CATCHES, CABIN HOOKS, ETC</u>			
	<u>"Approved"</u>			
1	150mm chrome cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	1	
	<u>LOCKS</u>			
	<u>"Union Assa Abloy" or similar approved:</u>			
2	50mm Brass padlock	No	1	
3	Four lever lockset	No	1	
4	"Ref. CZ80941SC" Indicator bolt	No	4	
	<u>HANDLES</u>			
	<u>"Union Assa Abloy" or similar approved:</u>			
5	ASSA ABLOY Anodised Silver straight pull handle (Code: AL5515-300BBAS) with 300mm fixing centres	Pairs	1.0	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	Carried Forward			R
	Section No. 5 Type M4+8UR Bill No. 6 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward				R
	<u>"Dorma" or similar approved</u>				
6	DSS-130 Engraved "Male" information sign	No	1		
	<u>SUNDRIES</u>				
7	25mm Diameter wall mounted door stop plugged	No	6		
	<u>BATHROOM FITTINGS</u>				
	<u>Kimberley-Clark or Similar:</u>				
8	Kimberly-Clark SQ2 code 405607B white lockable toilet roll holder	No	4		
Carried Forward to Summary of Section No. 5					
Section No. 5					
Type M4+8UR					
Bill No. 6					
Ironmongery					
PREPARED BY: NYELETI CONSULTING (PTY) LTD					
					R

Item No		Quantity	Rate	Amount
	<u>SECTION. 5</u>			
	<u>BILL NO. 7</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>STEEL GATES, SCREENS, ETC</u>			
	<u>Welded screens and gates, to brickwalls:</u>			
1	Single gate and frame size to fit standard door, size 813 x 2032mm high	No	1	
	<u>REMEDIAL WORKS</u>			
2	Inspect, fix and tightened window type NE1, 533 x 654mm high walls and make good face brick work.	No	2	
3	Inspect, fix and tightened window type NE 7, 1022 x 654mm high into walls and make good face brick work.	No	1	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5 Type M4+8UR Bill No. 7 Metalwork			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 8</u>			
	<u>PLASTERING</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE.</u>			
	<u>Screeds to steel trowelled on concrete:</u>			
1	30mm Thick to floors	m2	24	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Minimum two coats approved epoxy coat</u>			
2	On screed	m2	24	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5 Type M4+8UR Bill No. 8 Plastering PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO. 9</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to used - PW 371"			
<u>REMEDIAL WORK</u>			
<u>CLEAN AND DESLUDGING OF WASTE</u>			
1	Carefully clean and desludging waste (some pits) to municipal waste disposal site. Service provider to submit relevant and valid permit of disposal from Municipality to Principal Agent.	No	4
<u>SANITARY FITTINGS</u>			
<u>Inspect existing enviroloo components, replace damaged or missing components, accessories,etc (second fix) and Install "components, accessories, etc" or similar approved</u>			
2	Install inlet pipes with brackets, vent extraction unit, place drying bag, toilet bowl and seat, top hinged inspection cover and all complete strictly in accordance with manufacturers instruction etc and make good for final inspection (Inspection elsewhere). Note: Materials are available on site.	No	4
Carried Forward			R
Section No. 5 Type M4+8UR Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
3	"Install Enviro Loo 4 Pan Urinal Evaporative Tank System code FG-862B " installed strictly in accordance with manufacturers instructions, unit comprising of urinal evaporative tank (PL.1), urinal bowl (PL.5), 3500mm long outlet vent pipe (PL.3), ventilation extraction unit (PL.3) fixed to wall with vent wall bracket (PL.4), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including supply of all necessary piping, traps, excavations, concrete, backfilling etc. Note: Eviro Loo Materials are available on site.	No 2
	<u>Supply and Install Precast concrete wash trough:</u>	
4	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, including all necessary pipework including soak away approximately 10 meters away from the wash trough, sized at 1000 x 1000 x 1000mm covered with "bidim" complete et	No 1
	<u>Supply and deliver only enviro loo components, accessories, etc (Installation elsewhere):</u>	
5	Vent wall bracket PL.7 (Provisional)	No 1
6	Ventilation extraction Unit PL.6 (Provisional)	No 1
7	Outlet ventilation Pipe PL.5 (Provisional)	No 1
8	Inspection Cover (Provisional)	No 1
9	Bag mounting screws and organic starter, enzyme and toilet cleaner (Provisional)	No 1
10	Toilet Bowl, Seat and Lid PL.4 (Provisional)	No 1
11	Drying Bag (Provisional)	No 1
12	Urinal support anchor (Provisional)	No 1
<u>BUDGETARY ALLOWANCES</u>		
Carried Forward		R
Section No. 5 Type M4+8UR Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>INSPECTION BY " ENVIRO LOO"/SUPPLIER</u>		
13	Allow an amount of R 4000.00 (Four Thousand Rand Only) for the one site visit to be made by the "Enviro Loo" suppliers to assist / support the contractor in the final inspection to be ascertain the enviro loo has been installed correctly at which time a certificate of compliance should be issued by Enviro Loo Option.	Item
14	Profit and attendance for the above	Item
<u>TAPS, VALVES, ETC</u>		
<u>"Cobra Watertech"</u>		
15	19mm chrome plated push button taps to wash trough	No 2
Carried Forward to Summary of Section No. 5		R
Section No. 5 Type M4+8UR Bill No. 9 Plumbing and Drainage (Provisional)		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use, on:</u>			
1	On fascias and barge boards.	m2	7	
	<u>ON METAL</u>			
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel:</u>			
2	On door frames	m2	3	
3	On windows with burglar bars	m2	8	
4	On gates (measured over the full flat area both sides)	m2	3	
5	On gutters and down pipes	m	11	
	<u>Spot priming defects in prime surface with zinc chromate primer, one universal undercoat and two golden brown gloss enamel on steel</u>			
	<u>ON WOOD</u>			
	Carried Forward			R
	Section No. 5 Type M4+8UR Bill No. 11 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
6	<u>Three coats matt varnish</u> On doors (Internal and External)	m2	18	
Carried Forward to Summary of Section No. 5				
Section No. 5 Type M4+8UR Bill No. 11 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD				R

		Page No	Amount
	Section No. 5		
	Type M4+8UR		
	<u>SECTION SUMMARY - Type M4+8UR</u>		
Bill No			
1	Earthworks	105	
2	Concrete, Formwork and Reinforcement	107	
3	Masonry	109	
4	Roof Coverings	111	
5	Carpentry and Joinery	113	
6	Ironmongery	115	
7	Metalwork	116	
8	Plastering	117	
9	Plumbing and Drainage (Provisional)	120	
10	Glazing	121	
11	Paintwork	123	
	Carried to Final Summary		R
	Section No. 5		
	Type M4+8UR		
	PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.6</u>			
	<u>BILL No.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	For aprons thickening	m3	3	
	<u>Extra over all excavations for carting away</u>			
2	Surplus material from excavations and/or stock piles by previous contractor on site to a dumping site to be located by the new contractor	m3	121	
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	3	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water		Item	
	<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
5	Around buildings (Excavations carried out by previous contractor).	m3	91	
	Carried Forward			R
	Section No. 6 Type F8 and FD4 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
 COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>Compaction of surfaces</u>		
6	Compaction of ground surface to around buildings including aprons etc including removing and re-compact materials done by previous contractor for a depth of 150mm layers adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2 101
<u>Prescribed density tests on filling</u>		
7	"Modified AASHTO Density" test	No 14
<u>SOIL POISONING</u>		
<u>Soil insecticide in accordance with SANS 5859:</u>		
8	Soil insecticide (protection against termites) applied as specified under aprons, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2 64
Carried Forward to Summary of Section No. 6		R
Section No. 6		
Type F8 and FD4		
Bill No. 1		
Earthworks		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO.6</u>			
	<u>BILL NO.2</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>UNREINFORCED CONCRETE,ETC</u>			
	<u>25MPa/19mm concrete</u>			
1	Aprons cast in panels	m3	7	
2	Thickening down apron on edge 110mm deep x 200mm wide.	m	58	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete smooth with a wood float</u>			
3	Aprons and pavings to falls.	m2	64	
	<u>TEST BLOCKS</u>			
4	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4	
	<u>FORMWORK</u>			
	<u>Rough formwork to sides</u>			
5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	60	
	Carried Forward			R
	Section No. 6 Type F8 and FD4 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>			
6	Not exceeding 300mm high to edges of surface beds	m	20	
	<u>Saw cut joints</u>			
7	Saw cut joints in top of concrete (Provisional)	m	20	
	<u>REINFORCEMENT</u>			
	<u>Fabric reinforcement:</u>			
8	Mesh ref type 193 fabric reinforcement fixed horizontal in aprons.	m2	64	
Carried Forward to Summary of Section No. 6				R
Section No. 6 Type F8 and FD4 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD				

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
 COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 6</u></p> <p><u>BUILDER'S WORK</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For preambles see "Specifications of materials and methods to used - PW 371"</p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.</p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.</p> <p>User note: The above preamble generally applies for works in ho and humid coastal areas</p> <p><u>Face Bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
			R
	Carried Forward		
<p>Section No. 6 Type F8 and FD4 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<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>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>SUPERSTRUCTURE</u>		
<u>FACE BRICKWORK</u>		
<u>Brick-on-edge header course copings, sills, etc using Corobrick Letaba Satin" or similar approved face bricks available on site pointed with polished recessed joints on all exposed faces (Provisional)</u>		
1	150mm Wide sills set sloping and slightly projecting.	m 14
2	110mm Wide sills set flat	m 14
3	Coping on top of half brick wall	m 30
<u>Ventilation bricks</u>		
4	Break down face brick wall, create opening and install set of two 22 x 155mm high terra cotta clay vermin proof air bricks and make good face bricks around new air bricks.	No 20
Carried Forward to Summary of Section No. 6		R
Section No. 6		
Type F8 and FD4		
Bill No. 3		
Masonry		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 4</u>			
	<u>ROOF COVERINGS ETC</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>REMEDIAL WORKS</u>			
	<u>Carefully remove existing 0,58mm "Klip-Tite" profile Z275 spelter galvanised steel light industrial troughed interlocking roof sheeting including clips and set aside for re-use.</u>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	32	
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "Klip-Lok" roof sheeting with "Chromadek" finish one side, fixed to timber purlins (eslewhere)</u>			
2	Labour to install roof coverings using existing set aside and available roof sheeting including supply of new clips where necessary with single pitch not exceeding 25 degrees	m2	73	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Remove existing sisalation and replace with "Sisalation 405" or similar approved residential grade aluminium foil based insulation:</u>			
3	Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps, including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2	21	
	Carried Forward			R
	Section No. 6 Type F8 and FD4 Bill No. 4 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>"Sisalation 405" or similar approved residential grade aluminium foil based insulation:</u>		
4	Insulation sheeting laid taut over purlins at approximately 1000mm centres and fixed concurrent with roof covering with minimum 150mm stapled laps, including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required	m2 35
<u>RAINWATER DISPOSAL</u>		
<u>Aluzink seamless metal gutters:</u>		
5	100 x 100 x 0.6mm standard rainwater gutters	m 15
6	Extra over eaves gutter for closed ends	No 4
7	75 x 100 x 0.6mm Thick galvanised rainwater downpipes	m 8
8	Extra over rainwater pipe for eaves offset.	No 4
9	Ditto,for shoe.	No 4
Carried Forward to Summary of Section No. 6		R
Section No. 6		
Type F8 and FD4		
Bill No. 4		
Roof Coverings		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 5</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Allow for the preparation and submission of the following documents in respect of building.</u>			
1	<u>Erection</u> of roof guarantee certificate after the whole completed roof truss structure including completion of work carried out by previous contractor have been inspected, all defective work have been carried out and make good to the full satisfaction of the principal agent.	Item		
	<u>REMEDIAL WORKS</u>			
	<u>Carefully remove and set aside for re-use sawn softwood grade 5:</u>			
2	50 x 76mm Purlins	m	101	
	<u>ROOFS, ETC</u>			
	<u>Sawn softwood grade 5:</u>			
3	Supply and install 50 x 76mm Purlins fixed on existing roof timbers (rafters).	m	101	
4	Labour to fix 50 x 76mm Purlins previously set-aside fixed on brickwork between roof timbers (top eaves and verges both sides).	m	50	
	<u>Sundries</u>			
5	Two coats creosote on sawn timbers	m2	53	
6	Hurricane Clips	No	70	
	Carried Forward			R
	Section No. 6 Type F8 and FD4 Bill No. 5 Carpentry and Joinery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>EAVES, VERGES, ETC</u>		
<u>Pressed fibre-cement</u>		
7	15 x 230mm Fascias and barge boards including galvanised steel H-profile jointing strips	45
	m	
<u>DOORS ETC</u>		
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard	3
	No	
9	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side (door raised by 120mm from bottom) (D2)	12
	No	
10	44mm Framed batten door 914 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard.	1
	No	
Carried Forward to Summary of Section No. 6		R
Section No. 6		
Type F8 and FD4		
Bill No. 5		
Carpentry and Joinery		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 6</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>CATCHES, CABIN HOOKS, ETC</u>			
	<u>"Approved"</u>			
1	150mm chrome cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged.	No	4	
	<u>LOCKS</u>			
	<u>Approved</u>			
2	50mm Brass padlock	No	4	
3	Four lever mortice lockset	No	4	
4	Indicator lockset	No	16	
	<u>HANDLES</u>			
	<u>"Union Assa Abloy" or Similar approved:</u>			
5	ASSA ABLOY anodised silver straight pull handle (code AL5515 300BBAS) with 300mm fixing centres	Pairs	4.0	
	Carried Forward			R
	Section No. 6 Type F8 and FD4 Bill No. 6 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
	<u>DOORSTOPS</u>			
	<u>Approved</u>			
6	25mm Diameter rubber door stop plugged	No	20	
	<u>BOLTS, DOOR CLOSER, FLOOR SPRING, ETC.</u>			
7	"Dorma" TS73N/EN3-4 parallel arm door closer delayed closing-push side fitting.	No	1	
	<u>PUSH PLATES AND KICK PLATES</u>			
	<u>"Union Assa Abloy" or similar approved</u>			
	<u>1.2mm Thick satin finished "Union" stainless steel plates countersunk screwed along edges at not exceeding 200mm centre</u>			
8	200 x 900mm Type "SS5089-200W" kicking plate	No	1	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	<u>"Dorma" or similar approved</u>			
9	DSS-130 Engraved " Female" information sign	No	2	
10	DSS-131 Engraved " Disabled" information sign	No	1	
	<u>BATHROOM FITTINGS</u>			
	<u>"Vaal Paragon" or similar approved</u>			
11	32mm Type 9 back grab rail 800mm long plugged	No	1	
	Carried Forward			R
	Section No. 6 Type F8 and FD4 Bill No. 6 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
12	32mm Type 8 side grab rail 900mm girth plugged	No	1
<u>Kimberley-Clark or Similar:</u>			
13	Kimberly-Clark SQ2 code 405607B white lockable toilet roll holder	No	13
<u>Sundries</u>			
14	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm etc.	No	13
15	Steel cage supplied with pad lock bolted to walls to accommodate and secure 15 Litre SHE-Bin.	No	13
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Type F8 and FD4			
Bill No. 6			
Ironmongery			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION. 6</u>			
	<u>BILL NO. 7</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>WELDED SCREENS, GATES ETC</u>			
	<u>Steel gates and frames</u>			
1	Purpose made square hallow section mild security gate, size 813 2032mm high	No	3	
2	Purpose made square hallow section mild security gate, size 914 2032mm high	No	1	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 Type F8 and FD4 Bill No. 7 Metalwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 8</u>			
	<u>PLASTERING</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>CEMENT SCREEDS TO CONCRETE.</u>			
	<u>Screeds to steel trowelled on concrete:</u>			
1	30mm Thick to floors	m2	47	
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Minimum two coats approved epoxy coat</u>			
2	On screed	m2	77	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 Type F8 and FD4 Bill No. 8 Plastering PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No	Quantity	Rate	Amount
<u>SECTION NO. 6</u>			
<u>BILL NO. 9</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
For preambles see "Specifications of materials and methods to used - PW 371"			
<u>REMEDIAL WORK</u>			
<u>CLEAN AND DESLUDGING OF WASTE</u>			
1	Carefully clean and desludging waste (some pits) to municipal waste disposal site. Service provider to submit relevant and valid permit of disposal from Municipality to Principal Agent.	No	5
<u>SANITARY FITTINGS</u>			
<u>Inspect existing enviroloo components, replace damaged or missing components, accessories,etc (second fix) and Install "components, accessories, etc" or similar approved</u>			
2	Install inlet pipes with brackets, vent extraction unit, place drying bag, toilet bowl and seat, top hinged inspection cover and all complete strictly in accordance with manufacturers instruction etc and make good for final inspection (Inspection elsewhere). Note: Materials are available on site.	No	13
Carried Forward			R
Section No. 6 Type F8 and FD4 Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>Supply and Install Precast concrete wash trough:</u>		
3	Standard SABS approved Pre-Cast Concrete Double Wash Trough, 1080 x 650 x 850mm high with support legs fitted with standard 3/4 Brass Garden Taps, including all necessary pipework including soak away approximately 10 meters away from the wash trough, sized at 1000 x 1000 x 1000mm covered with "bidim" complete et	No 4
<u>Supply and deliver only enviro loo components, accessories, etc (Installation elsewhere):</u>		
4	Vent wall bracket PL.7 (Provisional)	No 1
5	Ventilation extraction Unit PL.6 (Provisional)	No 1
6	Outlet ventilation Pipe PL.5 (Provisional)	No 1
7	Inspection Cover (Provisional)	No 1
8	Bag mounting screws and organic starter, enzyme and toilet cleaner (Provisional)	No 1
9	Toilet Bowl, Seat and Lid PL.4 (Provisional)	No 1
10	Drying Bag (Provisional)	No 1
11	Urinal support anchor (Provisional)	No 1
<u>BUDGETARY ALLOWANCES</u>		
<u>INSPECTION BY " ENVIRO LOO"/SUPPLIER</u>		
12	Allow an amount of R 4000.00 (Four Thousand Rand Only) for the one site visit to be made by the "Enviro Loo" suppliers to assist / support the contractor in the final inspection to be ascertain the enviro loo has been installed correctly at which time a certificate of compliance should be issued by Enviro Loo Option.	Item
13	Profit and attendance for the above	Item
<u>SANITARY FITTINGS</u>		
Carried Forward		R
Section No. 6 Type F8 and FD4 Bill No. 9 Plumbing and Drainage (Provisional)		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>"Vaal"</u>			
14	Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (Code : 7023) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts (product code 8448Z0).	No	1
<u>TAPS, VALVES, ETC</u>			
<u>"Cobra Watertech"</u>			
15	19mm chrome plated push button tap	No	8
16	Cobra Watertech 15mm chrome plated hi-waste elbow action pillartap with blue indicator for cold water (Code: 504-21B), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	1
17	15mm 128 CP Star underwall pattern stopcock.	No	1
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
18	50mm Pipe	m	8
19	110mm Pipes	m	8
<u>Extra over uPVC pipes for fittings</u>			
20	50mm Bend	No	2
21	50mm Junction	No	2
22	50mm Junction with cleaning eye and lid	No	2
23	50mm "GI Two-way" vent valve	No	1
24	110mm Bend	No	1
25	110mm Junction	No	1
Carried Forward			R
Section No. 6 Type F8 and FD4 Bill No. 9 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
	<u>Sundries</u>			
26	Testing waste pipe system		Item	
	<u>WATER SUPPLIES</u>			
	<u>Class 1 copper pipes with capillary couplings:</u>			
27	15mm Pipe fixed to walls, in chases, etc	m	15	
28	Ditto, but 22mm diameter	m	10	
	<u>Extra over Class 1 copper pipes for capillary fittings:</u>			
29	15mm Fittings	No	5	
30	22mm Fittings	No	8	
	<u>Brass</u>			
31	22mm Fullway gate valve	No	1	
	<u>Sundries</u>			
32	Testing water pipe system		Item	
	<u>TAPS, VALVES, ETC</u>			
	<u>"Cobra Watertech"</u>			
33	19mm chrome plated push button taps to wash trough	No	8	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6			
	Type F8 and FD4			
	Bill No. 9			
	Plumbing and Drainage (Provisional)			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 10</u>			
	<u>GLAZING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>GLAZING TO STEEL WITH PUTTY</u>			
	<u>6.38 mm Obscure safety glass:</u>			
1	Panes not exceeding 0,1m2	m2	8	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 Type F8 and FD4 Bill No. 10 Glazing PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 11</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>ON FIBRE-CEMENT</u>			
	<u>Prepare and brush to remove all loose contaminations apply one coat primer and two coats PVA emulsion pa</u>			
1	On fascias and barge boards.	m2	14	
	<u>ON METAL</u>			
	<u>Spot priming defects in prime surface with zinc chromate primer, one universal undercoat and two golden brown gloss enamel on steel</u>			
2	On door frames	m2	12	
3	On windows with burglar bars	m2	18	
4	On gates (measured over the full flat area both sides)	m2	14	
5	On gutters and down pipes	m	23	
	<u>ON WOOD</u>			
	<u>Three coats matt varnish</u>			
6	On doors (internal and External)	m2	56	
	Carried Forward to Summary of Section No. 6			R
	Section No. 6 Type F8 and FD4 Bill No. 11 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Bill No		Page No	Amount	
	Section No. 6			
	Type F8 and FD4			
	<u>SECTION SUMMARY - Type F8 and FD4</u>			
1	Earthworks	126		
2	Concrete, Formwork and Reinforcement	128		
3	Masonry	130		
4	Roof Coverings	132		
5	Carpentry and Joinery	134		
6	Ironmongery	137		
7	Metalwork	138		
8	Plastering	139		
9	Plumbing and Drainage (Provisional)	143		
10	Glazing	144		
11	Paintwork	145		
	Carried to Final Summary		R	
	Section No. 6			
	Type F8 and FD4			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.1</u>			
	<u>EARTHWORKS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>SITE CLEARANCE, ETC.</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	330	
	<u>REMOVAL OF TREES, ETC</u>			
2	Tree stump exceeding 200mm and not exceeding 500mm girth	No	3	
	<u>PAVINGS, ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Testing of material and filling:</u>			
	<u>Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series</u>			
	<u>EARTHWORKS</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Over site between buildings, retaining walls, etc to reduce levels and dispose in prescribed stock piles on site	m3	396	
	Carried Forward			R
	Section No. 7 EXTERNALWORKS Bill No. 1 Walkway PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>Compaction of surfaces</u>			
4	Rip and re-compact in-situ materials to a depth of 150mm, breaking down over size material and reconsolidate to 93% modified AASHTO density	m2	330
<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	396
<u>Keeping excavations free of water</u>			
6	Keeping excavations free of all water other than subterranean water		Item
<u>C4 filling supplied and carted on by the Contractor, stabilised with 2.5% OPC cement compacted in layers not exceeding 150mm to 97% Mod. AASHTO density</u>			
7	Subbase under roads	m3	50
<u>Earth filling from commercial sources supplied by the Contractor under parking areas, roadways, etc:</u>			
8	Sub-base course of G7 material compacted to 93% Mod AASHTO density	m3	297
9	Base course stabilised G7 material with CEM II 32.5 BV compacted to 97% Mod AASHTO density	m3	50
<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasién 248,6 g/l and atrasién 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m2:</u>			
10	Under paving, etc	m2	330
<u>Pavers</u>			
<u>INTERLOCKING CONCRETE PAVING</u>			
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 1 Walkway PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
	<p><u>Paving of 200 x 100 x 60mm "Type S-A" precast concrete paving bricks with butt joints, on 20mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling:</u></p>		
11	Paving in herringbone bond pattern to falls	m2	330
	<p><u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing:</u></p>		
12	150 x 280mm High kerbs (SANS 927 fig 7) with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	440
<p>Carried Forward to Summary of Section No. 7</p>			R
<p>Section No. 7 EXTERNALWORKS Bill No. 1 Walkway PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>			

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.2</u>			
	<u>RAMPS</u>			
	<u>EARTHWORKS</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Reduced levels under floors	m3	12	
	<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	12	
	<u>Keeping excavations free of water</u>			
3	Keeping excavations free of all water other than subterranean water		Item	
	<u>G7 filling material supplied by the contractor, compacted to 95% Mod AASHTO density:</u>			
4	Under floors, steps, pavings, et	m3	16	
	<u>Compaction of surfaces</u>			
5	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 98% Mod AASHTO densit	m2	10	
	<u>Prescribed density tests on filling</u>			
6	"Modified AASHTO Density" test	No	3	
	<u>Soil insecticide in accordance with SANS 5859:</u>			
7	Soil insecticide (protection against termites) applied as specified to floors poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	10	
	Carried Forward			R
	Section No. 7 EXTERNALWORKS Bill No. 2 Ramps PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>CONCRETE WORK</u>			
<u>25MPa/19mm Unreinforced concrete:</u>			
8	Ramps	m3	1
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
9	Surface beds, slabs, etc to falls	m2	10
<u>TEST BLOCKS</u>			
10	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	1
<u>FORMWORK</u>			
<u>Rough formwork to sides</u>			
11	Sloping outer edges of ramps approximately 450mm high extreme	m	7
<u>REINFORCEMENT</u>			
<u>Mild steel reinforcement to structural concrete work:</u>			
<u>Fabric reinforcement:</u>			
12	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	10
<u>BRICKWORK</u>			
<u>Brickwork of NFX bricks in class II mortar</u>			
13	One brick walls	m2	12
<u>FACE BRICKWORK</u>			
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 2 Ramps PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<p><u>Steel palisade fencing, gates, etc including one priming coat and two coats high gloss enamel Traffic Green paint on metal stays, framing, et</u></p>		
3	<p>1800mm High palisade fencing comprising 40 x 40 x 2mm x 1750mm angle pales bolted at 175mm centres using M8 anti vanda nuts and round headed bolts onto 50 x 50 x 3mm angle iron crossbars bolted onto 76 x 76 x 1.6mm square tube posts 2400mm long by means of 40 x 5.00mm flatbar fishplate and M12 antivandal nuts and bolts and posts set and cast into and including 300 x 300 x 600mm deep concrete bases at 3000mm centres</p>	28
	m	
4	<p>1500mm Wide x 1800mm High Swing gate comprising of 40 x40 x 2mm angle iron palings welded to a 50 x 25 x 1.6mm rectangular tubing bearer frame, palings are to be placed 133mm apart each other centre to centre and 2 No x 75mm x 75mm x 2mm steel square tubing posts at each side of the gate opening with closing pyramid caps on top and planted into concrete footing 450 x 450 x 600mm deep including excavations, backfilling and locking mechanism.</p>	1
	No	
<p>Carried Forward to Summary of Section No. 7</p>		
<p>Section No. 7 EXTERNALWORKS Bill No. 3 Fencing PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		
		R

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.4</u>			
	<u>WATER RETICULATION</u>			
	<u>PIPES</u>			
	<u>Supply, lay, bed, test, disinfect flanged pipes complete with couplings for Class 16 mild steel pipes of the following diameter: (All material including fittings to be SABS approved)</u>			
1	65 mm diameter	m	180	
2	80 mm diameter	m	82	
	<u>Supply, handle, lay, disinfect, bed in flexible pipe bedding and test uPVC class 16 pipes complete with spigot and socket joints.(All material including fittings to be SABS approved)</u>			
3	75 mm diameter	m	12	
4	90 mm diameter	m	12	
	<u>PREFABRICATED STEEL TANK:</u>			
	<u>The following work to be carried out by the contractor and strictly according to drawings or shop drawings and specifications or manuals issued by the Engineer or Specialist. Prefabricated steel tank will be installed through Direct Contract appointed by the Client. The contractor shall give access, all necessary support and monitor installation by the specialist.Contractor shall take full responsibility of complete installation.</u>			
	<u>EARTHWORKS</u>			
	Carried Forward			R
	Section No. 7 EXTERNALWORKS Bill No. 4 Water Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>SITE CLEARANCE, ETC.</u>			
5	Remove topsoil to nominal depth 150mm, stockpile and maintain	m2	25
<u>BULK EXCAVATION - TANK BASESITE CLEARANCE, ETC.</u>			
<u>b) Extra-over for</u>			
6	<u>Intermediate excavation</u>	m3	3
7	Hard rock excavation	m3	5
<u>RESTRICTED EXCAVATIONS</u>			
8	Excavate for restricted foundations, footings and trenches in all materials and use for backfill or embankment or dispose	m3	25
<u>EARTHWORKS (ROADS, SUBGRADE)</u>			
9	Rip and re-compact insitu to 90% MOD AASHTO	m3	1
10	Geotechnical grid (Traix TX170)	m2	1
11	Backfill 500mm with course insitu material in 150mm layers	m3	5
<u>CONCRETE</u>			
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
12	Binding layer in 15MPa concrete (50mm thick)	m3	1
13	Strength of concrete grade 30/19	m3	23
14	Shutter rough	m2	25
<u>SCHEDULED REINFORCEMENT</u>			
15	Steel bars (8 to 40mm diameter bars)	t	3.00
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 4 Water Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>UNFORMED SURFACE FINISHES</u>			
16	Steel float	m2	25
17	M20 Bolts cast in complete with washer plate and nuts, all galvanised	No	16
<u>SPECIALS AND FITTINGS</u>			
<u>Extra-over 8.2.1 for supplying, laying, bedding, jointing and testing of the following fittings for use on Steel pipes</u>			
<u>90 degree bend</u>			
18	75mm	No	4
19	90mm	No	8
<u>Equal Tee</u>			
20	100mm x 100mm	No	2
<u>Extra-over 8.2.1 for supplying, laying, bedding, jointing and testing of the following fittings for use on uPVC pipes</u>			
<u>90 degree bend</u>			
21	75mm	No	1
22	90mm	No	1
<u>25 degree Bends</u>			
23	75mm	No	1
24	90mm	No	1
<u>22.5 degree Bends</u>			
25	75mm	No	1
26	90mm	No	1
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 4 Water Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>45 degree Bends</u>			
27	75mm	No	1
28	90mm	No	1
<u>Flange adaptors</u>			
29	110mm	No	4
<u>Extra over Item 8.2.1 for supplying, fixing and bedding of valves; Class 16:</u>			
<u>Viking Johnson/Klamflex flanged adaptors PN 16</u>			
30	100mm	No	2
31	ND100 AVK Dismantling joint PN16 or similar approved	No	4
32	ND100 flanged cosmos Meinecke WPD bulk meter with digital output or similar approved; Class 16	No	1
33	ND100 flanged Bermad 70F Y-Pattern strainer or similar approved; Class 16	No	2
34	ND100 flanged ball valve; Class 16	No	1
35	Steel Plinths	No	4
36	DN25 automatic air release valve, Vent O Mat or similar approved brand as per inlet chamber detail; Class 25	No	2
37	ND25 brass fullway gate valve to sabs 776 Class 10	No	2
38	ND25 galvanised barrel nipple PN16	No	2
39	ND100 In line tee with outlet diameter as specified in the nodal descriptions and reduced to 25bsp female end connection PN16	No	2
40	ND100 mm, 150mm long double flanged pipe, PN 16 to SANS standard	No	2
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 4 Water Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
41	ND100 mm, 600mm long double flanged pipe, PN 16 to SANS standard	No	2
42	ND100 flanged Vosa Series 7354 Equilibrium float valve or similar approved; Class 16	No	1
43	DN100 flanged mild steel flanged sweep tee; flanges drilled according to SANS 1123 table 16	No	1
44	DN100 Blank flange with 20 mm hole drilled onto it and 25 mm nipple welded onto it; nipple to be male threaded on one end.	No	1
45	DN25 Female threaded ball valve, PN16	No	1
46	DN25 Nipple, one end male and one end female threaded	No	1
47	DN25 automatic air release valve, Vent O Mat or similar approved brand as per tank inlet detail; Class 25	No	1
48	ND100 mm, 240mm long double flanged pipe, PN 16 to SANS standard	No	1
49	ND150 mild steel pipe, PN 16,6m long,one end flanged as per detail drawing 14491-D-C-WAT-D05, actual length of pipe to be confirmed on site confirmed on site	No	1
<u>Isolating valves</u>			
<u>Extra-over item 6.13 for the supplying, installing cutting in and testing flanged Class 16 anticlockwise closing non rising spindle resilient seal gate valves for steel pipes as shown on detailed drawings for pipe diameters</u>			
50	100 mm diameter	No	5
51	150 mm	No	1
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 4 Water Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

		Brought Forward		R
<u>CHAMBERS</u>				
52	Construct concrete inlet and outlet chamber Type 1 complete with step irons, and frames as per detailed drawings, up to 2.0m depth.	No	1	
53	Construct scour valve chamber Type 4, complete with stepirons, frames and and scour wing wall structure as per detailed drawings up to 2.5m depth.	No	1	
<u>SUNDRIES</u>				
54	Thrust blocks and pedestals class 25Mpa/19 concrete	m3	5	
Carried Forward to Summary of Section No. 7				R
Section No. 7				
EXTERNALWORKS				
Bill No. 4				
Water Reticulation				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.5</u>			
	<u>RAIN WATER HAVERST</u>			
	<u>EARTHWORKS</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches	m3	11	
	<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	6	
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
3	Backfilling to trenches, holes, etc	m3	3	
4	Under floors, steps, pavings, et	m3	2	
	<u>Compaction of surfaces</u>			
5	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 98% Mod AASHTO densit	m2	11	
	<u>Prescribed density tests on filling</u>			
6	"Modified AASHTO Density" test	No	2	
	<u>Soil insecticide in accordance with SANS 5859:</u>			
7	Soil insecticide (protection against termites) applied as specified to floors poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	11	
	<u>CONCRETE WORK</u>			
	Carried Forward			R
	Section No. 7 EXTERNALWORKS Bill No. 5 Rainwater Harvest PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>25MPa/19mm Unreinforced concrete:</u>			
8	Strip Footing	m3	5
9	Tank Stand Plinth	m3	1
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
10	Surface beds, slabs, etc	m2	11
<u>TEST BLOCKS</u>			
11	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	2
<u>REINFORCEMENT</u>			
<u>Mild steel reinforcement to structural concrete work:</u>			
<u>Fabric reinforcement:</u>			
12	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	11
<u>BRICKWORK</u>			
<u>Brickwork of NFX bricks in class II mortar</u>			
13	One brick walls	m2	23
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R 5 500.00/ 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:</u>			
14	Extra over brickwork for face brickwork in tank stand plinth	m2	23
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 5 Rainwater Harvest PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
 COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

		Brought Forward		R
<u>BRICK SUNDRIES</u>				
<u>2,5mm Brickwork reinforcement</u>				
15	150mm Wide reinforcement built in horizontally	m	207	
<u>RAIN WATER TANK</u>				
16	5000 Litre plastic JoJo tank complete with fixing lugs and lid, fitted with and including 15mm brass bibtap with handle suitable for padlocking and setting in position on concrete plinth (elsewhere measured) and tying down with 4mm diameter wire wapped twice around centre of tank and secured to each corner of tank with double strand of 4mm diameter galvanised wire embedded into concrete.	No	5	
Carried Forward to Summary of Section No. 7				R
Section No. 7				
EXTERNALWORKS				
Bill No. 5				
Rainwater Harvest				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.6</u>			
	<u>DRINKING FOUNTAINS</u>			
	<u>The following for 3 (Three) drinking fountains:</u>			
	<u>EARTHWORKS</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Reduced levels under floors	m3	3	
	<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	3	
	<u>Compaction of surfaces</u>			
3	Compaction of ground surface under fountain floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO densit	m2	9	
	<u>CONCRETE WORK</u>			
	<u>25MPa/19mm Unreinforced concrete:</u>			
4	Drinking fountain pad	m3	1	
	<u>CONCRETE SUNDRIES</u>			
	<u>Finishing top surfaces of concrete rough with a wood float</u>			
5	Surface beds, slabs, etc to falls	m2	9	
	<u>FORMWORK</u>			
	Carried Forward			R
	Section No. 7 EXTERNALWORKS Bill No. 6 Drinking Fountains PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
<u>Rough formwork to sides</u>		
6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m 21
<u>GARDEN TAP</u>		
7	19mm Chrome plated or Plastic Push Button tap including 20mm Galvanized stand pipe not exceeding 1.5m high casted with 25Mpa concrete into 110mm diameter uPVC / HDPE pipe around stand pipe including 300mm concrete plinth below ground, good finish top concrete around pipe diameter. (water supply pipes, etc measured elsewhere).	No 3
<u>SOAKAWAY</u>		
<u>Soakaway build at the edge or end of concrete fountain pad:</u>		
8	Soak away approximately size 1000 x 1000 x 1000mm covered with rocks not exceeding 150mm and "bidim" complete etc.	No 3
Carried Forward to Summary of Section No. 7		R
Section No. 7		
EXTERNALWORKS		
Bill No. 6		
Drinking Fountains		
PREPARED BY: NYELETI CONSULTING (PTY) LTD		

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.8</u>			
	<u>BOREHOLE:</u>			
	<u>Supply and installation of borehole pumps and ancillary equipment:</u>			
	<u>Submissiblet pump unit or similar approved</u>			
1	Pump at 1.0l/s for the borehole depth of 95m with the total head (H) 120m at 25000rpm.	No	1	
2	Pump motor of 2,1 Kw motor	No	1	
3	Submissible pump automated control panel box	No	1	
	<u>Supply and install of electrical cable from DB box to the borehole inclusive of the borehole depth.</u>			
4	220V of 10mm2 electrical cable for 2.1kw Pump motor for the total distance 200m length.	m	300	
5	20mm Thick nylon for tighten pump until the collar	m	130	
	<u>Borehole Rising Main</u>			
6	Supply and installation of 40mm HDPE Class 12 pipe from borehole depth to the new tank.	m	320	
	<u>Borehole Fittings</u>			
7	All borehole fittings inclusive of all pipe fittings, tees, bends, straight joints etc.			SUM
	Carried Forward to Summary of Section No. 7			R
	Section No. 7 EXTERNALWORKS Bill No. 7 Borehole PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.8</u>			
	<u>SEWER RETICULATION</u>			
	<u>PIPES</u>			
1	110mm uPVC Pipes laid in and including trenches not exceeding 1m deep	m	35	
2	110mm uPVC Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	25	
3	160mm uPVC Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	201	
4	Extra over uPVC piping for 110mm bend	No	5	
5	Extra over uPVC piping for 110mm junction	No	20	
6	Extra over uPVC piping for 110mm stop end	No	10	
7	110mm uPVC cleaning eye fixed to 110mm uPVC drain pipe, including 350 x 350 x 75mm thick in-situ 15 MPa/19mm mass concrete surround, the whole finished smooth on all exposed faces with exposed angles rounded, including all necessary excavations, formwork, backfilling, etc	No	2	
	<u>SEPTIC TANK:</u>			
	<u>REMEDIAL WORK:</u>			
	<u>Remove filling</u>			
8	Septic Tank	m3	36	
	<u>Trimming excavation pit</u>			
9	Vertical sides of pit exceeding 3m but not exceeding 4m deep.	m	40	
	Carried Forward			R
	Section No. 7 EXTERNALWORKS Bill No. 8 Sewer Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
10	Surplus material from excavations and/or stock piles (including excavated materials by previous contractor) on site to a dumping site to be located by the contractor	m3	161
<u>NEW WORK</u>			
<u>Risk of collapse of excavations</u>			
11	Sides of trench and hole excavations exceeding 3m but not exceeding 4m deep.	m2	80
<u>Keeping excavations free of water</u>			
12	Keeping excavations free of all water other than subterranean water		Item
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
13	Backfilling to trenches, holes, etc	m3	15
<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
14	Under pit (Excavations carried out by previous contractor).	m3	40
<u>Compaction of surfaces</u>			
15	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	80
<u>Prescribed density tests on filling</u>			
16	"Modified AASHTO Density" test	No	5
<u>SOIL POISONING</u>			
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 8 Sewer Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
<u>Soil insecticide in accordance with SANS 5859:</u>			
17	To bottoms and sides of pit etc	m2	80
<u>CONCRETE WORKS ,ETC</u>			
<u>15MPa/19mm concrete</u>			
18	Surface blinding under footings and bases	m3	15
<u>25MPa/19mm reinforced concrete:</u>			
19	Mass concrete to bottoms	m3	20
20	Slabs	m3	15
<u>TEST BLOCKS</u>			
21	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	4
<u>FORMWORK</u>			
<u>Rough formwork to sides</u>			
22	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	25
<u>REINFORCEMENT</u>			
<u>Mild and High Tensile steel reinforcement to structural concrete work:</u>			
23	All Diameter bar	t	3.00
<u>BRICKWORK</u>			
<u>Brickwork of NFX bricks in class II mortar</u>			
24	One brick walls	m2	70
25	Half brick walls	m2	17
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 8 Sewer Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>BRICK SUNDRIES</u>			
<u>2,5mm Brickwork reinforcement</u>			
26	75mm Wide reinforcement built in horizontally	m	44
27	150mm Wide reinforcement built in horizontally	m	206
<u>Bagging of 1:3 cement and sand mixture</u>			
28	Outer face of external brick wall	m2	350
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
29	Under surface beds	m2	50
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork:</u>			
30	On walls	m2	88
<u>SPECIAL FLOOR COATING</u>			
<u>Minimum two coats approved epoxy coat</u>			
31	On screed	m2	50
32	On walls in pit	m2	88
<u>SOAKAWAY</u>			
<u>REMEDIAL WORK:</u>			
<u>EARTHWORKS</u>			
<u>Trimming excavation pit</u>			
33	Vertical sides of pit not exceeding 2m deep.	m	10
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 8 Sewer Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
34	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	6
<u>NEW WORK</u>			
<u>Risk of collapse of excavations</u>			
35	Sides of trench and hole excavations exceeding 1.5m but not exceeding 3m deep.	m2	20
<u>Keeping excavations free of water</u>			
36	Keeping excavations free of all water other than subterranean water		Item
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density</u>			
37	Backfilling to soakaway	m3	5
<u>Approved unselected stones size 50-200mm laid in:</u>			
38	Soakaway	m3	7
<u>Geofabric filter bedim blanket membrane wrapped around stone with 150mm side and 30mm end laps including stitching:</u>			
39	Soakaway	m2	6
<u>Compaction of surfaces</u>			
40	Compaction of ground surface to pits etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	6
<u>Prescribed density tests on filling</u>			
41	"Modified AASHTO Density" test	No	1
Carried Forward			R
Section No. 7 EXTERNALWORKS Bill No. 8 Sewer Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward			R
<u>PERFORATED PIPE</u>			
<u>uPVC Perforated pipes</u>			
42	110 uPVC perforated pipe laid stone	m	4
<u>Extra over uPVC pipes for fittings</u>			
43	110mm Cap End	No	1
44	100mm Bend	No	2
45	100mm Junction	No	1
<u>uPVC pipes</u>			
46	110 uPVC Inspection Vertical Pipe	m	3
<u>CAST IRON COVER</u>			
47	100mm Diameter Cast Iron Inspection Cover	No	2
Carried Forward to Summary of Section No. 7			R
Section No. 7			
EXTERNALWORKS			
Bill No. 8			
Sewer Reticulation			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.9</u>			
	<u>STORMWATER MANAGEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>EARTHWORKS</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Stormwater	m3	35	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
2	Soft rock	m3	4	
3	Hard rock	m3	2	
	<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	35	
	<u>Keeping excavations free of water</u>			
5	Keeping excavations free of all water other than subterranean water		Item	
	<u>Compaction of surfaces</u>			
6	Compaction of ground surface under stormwater, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO densit	m2	116	
	Carried Forward			R
	Section No. 7 EXTERNALWORKS Bill No. 9 Stormwater Management PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
<u>Prescribed density tests on filling</u>			
7	"Modified AASHTO Density" test	No	1
<u>Soil insecticide in accordance with SANS 5859:</u>			
8	Soil insecticide (protection against termites) applied as specified to bottoms and sides of trenches, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	248
<u>CONCRETE WORK</u>			
9	25Mpa/19mm Mass concrete in V-shaped channel 700mm wide x 75mm thick cast in 2 000mm intervals with rounded salient edges and finished on exposed surfaces with 2:1 cement mortar, with and including one layer of ref.193 mesh reinforcement, laid to falls in panels not exceeding 2,0m long with 12mm bitumen impregnated soft board movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavations, form work, backfilling, clearing, levelling and etc	m	165
10	Extra for fair open end	No	5
11	Extra for fair stopped end	No	5
12	Extra for angle intersection	No	5
<u>TEST BLOCKS</u>			
13	Allow for preparing a set of three test cubes each size 150 x 150 x 150mm, sending them to an approved testing laboratory for testing and paying all charges in connection therewith.	No	8
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete rough with a wood float</u>			
14	Stormwater channels to falls	m2	116
Carried Forward to Summary of Section No. 7			R
Section No. 7 EXTERNALWORKS Bill No. 9 Stormwater Management PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Section No. 7

EXTERNALWORKS

SECTION SUMMARY - EXTERNALWORKS

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 8</u>			
	<u>PROVISIONAL SUMS</u>			
	All provisional sums cover the supply and installation of materials, equipment, plant, etc, including the commissioning thereof, where applicable.			
	Provisional sums are net and do not include builders discount but the tenderer may allow under profit items any profit he/she considers necessary.			
	The tenderer is referred to Clause 87.1 and 87.2 in the Preliminaries section for the definition and adjustment of general attendance.			
	<u>NB ALL PROVISIONAL WORKS ARE SUBJECT TO BE RE-MEASUREMENTS. THE PROVISIONAL WORK SHALL BE PAID AS PER WORK DONE</u>			
	<u>PREFABRICATED STEEL TANK</u>			
	The following work to be carried out by the specialist through Direct Contract appointed by the Client.			
1	Allow the Provisional Amount of R 460 700.00 (Four Hundred and Sixty Thousand and Seven Hundred Rand) for supply and installation of prefabricated steel tank by Specialist appointed by Client through Direct Contract.			
		Item		
2	Allow for giving every facility to Specialist as described above at maximum of 2.5% (Two and Half Percent).			
		Item		
	<u>REIMBURSEMENT OF OUTSTANDING WAGES, RENTALS, STORAGE AND ETC</u>			
	The following reimbursement of outstanding wages, rentals, storages and etc from terminated contractor.			
	Carried Forward			
	Section No. 8 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

Brought Forward		R
3	Allow the Provisional Amount of R 40 000.00 (Forty Thousand Rands) for the reimbursement of outstanding wages, rentals, storages etc from previously terminated contract and amount to be deducted from final account of terminated contract as per Principal Agent's instruction.	Item
4	Allow for giving every facility to Specialist as described above at maximum of 2.5% (Two and Half Percent).	Item
Carried to Final Summary		R
Section No. 8 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS PREPARED BY: NYELETI CONSULTING (PTY) LTD		

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
COMPLETION OF DAVID MUTSHINYALO SECONDARY SCHOOL

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	SUB-TOTAL (A)		R
	Allow the sum of 10% (ten percent) of the above sub-total for Contingencies to be spent as the Principal Agent may direct and to be deducted in whole or in part if not required.		R
	SUB-TOTAL (B)		R
	Add: Value added Tax @ 15%		R
	SUB-TOTAL INCLUDING VAT		R
	Carried to Form of Tender		R
	PREPARED BY: NYELETI CONSULTING (PTY) LTD		