

Item No		Quantity	Amount
	<p><u>SECTION 1</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> <p><u>PREAMBLES FOR TRADES</u></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>		
	<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>	R	

	Brought Forward	R	
	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		
	<u>GENERAL</u>		
	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		
	<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>		
1	Definitions (A1)		
	Definitions and interpretation (clause 1)		
	Fixed:_____ Value related:_____ Time related:_____	Item	
2	Objective and Preparation (A2 to A14)		
	Offer acceptance and performance (clause 2)		
	Fixed:_____ Value related:_____ Time related:_____	Item	
3	Documents (clause3)		
	Fixed:_____ Value related:_____ Time related:_____	Item	
4	Design responsibility (clause 4)		
	Fixed:_____ Value related:_____ Time related:_____	Item	
	Carried Forward	R	
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 CHUCHEKANI PRIMARY SCHOOL**

	Brought Forward	R	
7	<p>Compliance with regulations (clause 7)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>Sub-clause 7.3 added: The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work. Sub-clause 7.3.1 is added: Notwithstanding any actions which the employer may take, the contractor accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the contractor is liable as mandatory. By entering into this agreement it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the contractor in the event the parties fail to execute the aforesaid mandatory agreement.” Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification. The contractor shall also comply with the additional requirements with regard to the Coronavirus pandemic in terms of all Covid-19 legislation, regulations and guidelines.</p>		Item
8	<p>Works risk (clause 8)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item
9	<p>Indemnities (clause 9)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>Works insurances (clause 10)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item
10	<p>Liability insurances (clause 11)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item
11	<p>Effecting insurance (clause 12)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item
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		Brought Forward	R	
12	<p>No clause</p> <p>Security (clause 14)</p> <p>The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>Execution (A15-A23)</u></p>		N/A	
13	<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	
14	<p>Access to the works (clause 16)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item	
15	<p>Contract instructions (clause 17)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		Item	
		Carried Forward	R	
	<p>Section No. 1</p> <p>Preliminaries and Generals</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>			

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CHUCHEKANI PRIMARY SCHOOL**

	Brought Forward	R	
16	<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 encroachment</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	
17	<p>Assignment (clause 19)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer</p> <p>The contractor shall not cede his rights or delegate his obligations in terms of this agreement unless specifically called for by the employer</p>	Item	
18	<p>Nominated subcontractors (clause 20)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	
19	<p>Selected subcontractors (clause 21)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p> <p>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</p>	Item	
	Carried Forward	R	
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		Brought Forward	R	
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: _____			
	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	
	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)			
		Carried Forward	R	
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Brought Forward

F

28	Penalty for non-completion (clause 30)
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Fixed: _____ Value related: _____ Time related: _____

Item

Payment (A31 - A35)

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:

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

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)
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Fixed: Value related: Time related:

Item

Carried Forward

F

Section No. 1

Preliminaries and Generals

Bill No. 1

Preliminaries

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

Cancellation by contractor - employer's default (clause 38)

Fixed: Value related: Time related:

Item

35	Cancellation - cessation of the works (clause 39)
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Fixed: Value related: Time related:

Item

Dispute (A40)

36	Dispute Settlement (clause 40)
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Fixed: Value related: Time related:

Item

Substitute Provisions (A41)

37	State clauses (Clause 41)
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Fixed: Value related: Time related:

Item

Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder

SCHEDULE

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)
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F: V: T:

Item

42.1 CONTRACTING AND OTHER PARTIES

42.1.1 Employer: Mvula Trust

42.1.2 Principal Agent: Nyeleti Consulting (Pty) Ltd

42.1.5 Civil and Structural Engineer: Nyeleti Consulting (Pty) Ltd

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Preliminaries

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<u>42.2 CONTRACT DETAILS</u>			
42.2.1 Works Description: Construction of sanitation facilities			
42.2.2 Site Description: as per the information on the tender data			
42.2.3 Work or installations by direct contractors:			
As per the information provided in the tender data			
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:			
As per the information provided in the tender data			
42.2.6 Period for the commencement of the works after the contractor takes possession of site:	Seven Days		
42.2.7 For the works as a whole. Intended date of practical completion and the penalty per calendar day			
Intended Date of Practical Completion: As per the information provided in the tender data			
Penalty Amount: The penalty per calender day shall be:0.05% per R100 of the contract value (inclusive of value added tax)			
42.2.8 For the works in sections: Intended date of practical completion and the penalty per calender 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)			
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Brought Forward		R	
<u>42.3 INSURANCES</u>			
42.3.1	Contract works insurance to be effected by:Contractor: For the Sum of R Contract Amount + 10.00 % With a deductible amount the contractor deems appropriate		
42.3.2	Supplementary insurance is required No		
42.3.3	Public liability insurance to be effected by:Contractor: For the Sum of R 5 000 000-00 With a deductible amount the contractor deems appropriate		
<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: “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 5 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		
	No		
	Where JBCC CPAP is to be used Base	n/a	
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		Brought Forward	R	
	42.4.7 Details of changes made to the provision of JBCC standard documentation:			
	Part 1 - Contract Data completed by the Employer			
	<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	
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	
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Brought Forward

R

46	Defined works area (B3.1)
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Fixed: Value related: Time related:

Item

The site (B3)

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)
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Fixed: Value related: Time related:

Item

51	Previous work - defects (B3.6)
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Fixed: Value related: Time related:

Item

52	Services - known (B3.7)
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Fixed: _____ Value related: _____ Time related: _____

Item

53	Services - unknown (B3.8)
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Fixed: _____ Value related: _____ Time related: _____

Item

54	Protection of trees etc (B3.9)
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Fixed: _____ Value related: _____ Time related: _____

Item

55	Articles of value (B3.10)
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Fixed:_____ Value related:_____ Time related:_____

Item

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Preliminaries and Generals

Bill No. 1

Preliminaries

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CHUCHEKANI PRIMARY SCHOOL

		Brought Forward	R	
	<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	
	<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	
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		Brought Forward	R	
	<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	
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	
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75	Telecommunication facilities (B7.4)
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Fixed: _____ Value related: _____ Time related: _____

Item

76 Ablution facilities (B7.5) Option [A] shall apply

Fixed: Value related: Time related:

Item

Prime cost amounts (B8)

77	Responsibility for prime cost amounts (B8.1)
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Fixed: Value related: Time related:

Item

Attendance on N/S Subcontractors (B9)

78	General attendance (B9.1)
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Fixed: Value related: Time related:

Item

79	Special attendance (B9.2)
----	---------------------------

Fixed: Value related: Time related:

Item

80	Commissioning - Fuel, water and power (B9.3)
----	--

Fixed: Value related: Time related:

Item

Financial aspects (B10)

81 Statutory taxes, duties and levies (B10.1)

Fixed: Value related: Time related:

Item

82 Payment of preliminaries (B10.2) Option [A] shall apply

Fixed: _____ Value related: _____ Time related: _____

Item

83 Adjustment of preliminaries (B10.3) Option [A] shall apply

Fixed: Value related: Time related:

Item

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Preliminaries and Generals

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Preliminaries

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CHUCHEKANI PRIMARY SCHOOL

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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: _____			
	The security to be submitted by the contractor to the employer will be as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT)		Item	
88	Notice before covering work (B11.4)			
	Fixed: _____ Value related: _____ Time related: _____		Item	
89	Disturbance (B11.5)			
	Fixed: _____ Value related: _____ Time related: _____		Item	
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	
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		Brought Forward	R	
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)			
	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			
		Carried Forward	R	
	Section No. 1 Preliminaries and Generals Bill No. 1 Preliminaries PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward		R
<p>12.1.14 Main notice board (B6.5) YES</p> <p>12.1.15 Subcontractors notice board (B6.6) A notice board is required No</p> <p>12.1.16 Water (B7.2) Alternative Selected: A</p> <p>12.1.17 Electricity (B7.3) Alternative selected: A</p> <p>12.1.18 Telecommunications (B7.4)</p> <p>12.1.19 Ablution facilities (B7.5) Alternative selected: A</p> <p>12.1.20 Protection of existing/sectionally occupied works (B11.2)</p> <p>12.1.21 Special attendance (B9.2) Subcontractor (1) details: N/A</p> <p>12.1.22 Protection of the works (B11.1) N/A</p> <p>12.1.23 Disturbance (B11.5) N/A</p> <p>12.1.24 Environmental Disturbance (B11.6) N/A</p> <p><u>Post tender information (B12.2)</u></p> <p>12.2.1 Payment of preliminaries Alternative selected: B</p> <p>12.2.2 Adjustment of preliminaries Alternative selected: A</p> <p>12.2.3 Additional agreed preliminaries items N/A</p> <p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p>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</p>		
Carried Forward		R
<p>Section No. 1</p> <p>Preliminaries and Generals</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>PREPARED BY: NYELETI CONSULTING (PTY) LTD</p>		

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

	Brought Forward	R	
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: _____ 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	Item	
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: _____	Item	
	Carried Forward	R	
Section No. 1 Preliminaries and Generals Bill No. 1 Preliminaries PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

		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			
103	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			
104	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			
105	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			

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount
	<u>SECTION No.2</u>			
	<u>BILL No.1</u>			
	<u>DEMOLITIONS</u>			
	<u>DEMOLISH OF EXISTING TOILET STRUCTURES</u>			
1	Demolish existing pit toilet structure overall size 1 200 x 2 100 x 3 00mm High including desludging waste to municipality waste site, hacking and removing foundations, concrete surface beds, walls, doors, windows, door frames, ironmongery, zink, plumbing fittings complete, backfilling, compacting and clear debris and etc.Service Provider to submit relevant and valid permit of disposal to the municipal waste and all rubble's to be carted away from site.	No	1	
2	Demolish existing pit toilet structure overall size 1 500 x 2 100 x 3 00mm High including desludging waste to municipality waste site, hacking and removing foundations, concrete surface beds, walls, doors, windows, door frames, ironmongery, zink, plumbing fittings complete, backfilling, compacting and clear debris and etc.Service Provider to submit relevant and valid permit of disposal to the municipal waste and all rubble's to be carted away from site.	No	1	
3	Demolish existing pit toilet structure overall size 4 500 x 2 100 x 3 00mm High including desludging waste to municipality waste site, hacking and removing foundations, concrete surface beds, walls, doors, windows, door frames, ironmongery, zink, plumbing fittings complete, backfilling, compacting and clear debris and etc.Service Provider to submit relevant and valid permit of disposal to the municipal waste and all rubble's to be carted away from site.	No	1	
	Carried Forward		R	
	Section No. 2 Demolitions Bill No. 1 Demolitions PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
<u>CHEMICAL TOILETS RENTALS</u>			
4	Allow an amount of R 300 000. 00 (Three Hundred Thousand Rand) for rentals and servicing of Chemical Toilets during construction after demolishing of existing pit toilets until the new facilities / structures or renovations are completed and officially handed over to the user department, such temporal ablutions to be serviced and kept in good conditions at all times. Client will only compensate the cost of rentals and etc until original completion period or an approved extension of time period granted with cost, should the tenderer delay this activity, tenderer will be solely responsible to cover the cost of rentals until actual completion or sectional completion.	Item	
5	Allow for profit on above if required	Item	
6	Allow for giving every facility to Specialists as described	Item	
Carried to Final Summary			
Section No. 2 Demolitions Bill No. 1 Demolitions PREPARED BY: NYELETI CONSULTING (PTY) LTD			R

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY 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>SITE CLEARANCE, ETC.</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	53	
2	Stripping average 100mm thick layer of top soil and stockpiling on site.	m2	53	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Reduced levels under floors	m3	16	
4	Reduced levels under aprons	m3	10	
5	Trenches	m3	7	
6	Trenches and holes for thickening under surface beds,	m3	6	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
7	Soft rock	m3	1	
8	Hard rock	m3	1	
	Carried Forward		R	
	Section No. 3 Type SM2+2UR Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	15
<u>Risk of collapse of excavations</u>			
10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	19
<u>Keeping excavations free of water</u>			
11	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>			
12	Backfilling to trenches, holes, etc	m3	3
<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
13	Under floors, steps, paving etc.	m3	2
<u>Compaction of surfaces</u>			
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	14
15	Compaction of ground surface to aprons 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	26
<u>Prescribed density tests on filling</u>			
16	"Modified AASHTO Density" test	No	4
Carried Forward			R
Section No. 3 Type SM2+2UR Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

SOIL POISONING

Soil insecticide in accordance with SANS 5859:

17	Soil insecticide (protection against termites) applied as specified under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	14
18	To bottom of concrete aprons	m2	26
19	To bottoms and sides of trenches etc	m2	31

Carried Forward to Summary of Section No. 3

Section No. 3
Type SM2+2UR
Bill No. 1
Earthworks

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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	Surface blinding under footings and bases	m3	1	
2	Aprons cast in panels	m3	3	
3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavations, backfilling and etc.	m	6	
4	Thickening down apron on edge 110mm deep x 200mm wide.	m	22	
	<u>REINFORCED CONCRETE</u>			
	<u>30MPa/19mm concrete</u>			
5	Surface beds cast in panels on waterproofing.	m3	1	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm concrete</u>			
6	Strip footings	m3	3	
	<u>CONCRETE SUNDRIES</u>			
	Carried Forward		R	
	Section No. 3 Type SM2+2UR Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Brought Forward			R
<u>High tensile steel reinforcement to structural concrete work:</u>			
14	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.23
<u>Fabric reinforcement:</u>			
15	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	14
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Type SM2+2UR			
Bill No. 2			
Concrete, Formwork and Reinforcement			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BUILDER'S WORK</u>			
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>BRICKWORK</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Hollow walls etc</u>			
	Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in ho and humid coastal areas			
	<u>Face Bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 3 Type SM2+2UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>			
1	One brick walls	m2	10
<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>			
2	Extra over brickwork for face brickwork in foundation	m2	8
<u>Brickwork reinforcement</u>			
3	150mm Wide reinforcement built in horizontally	m	120
<u>SUPERSTRUCTURE</u>			
<u>FACE BRICKWORK</u>			
Carried Forward		R	
Section No. 3 Type SM2+2UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Face bricks (purchase price of R 5 500.00/ 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:</u>			
4	Half brickwork for face brick walls pointed both sides	m2	9
5	One brickwork for face brick walls pointed both sides	m2	45
6	Extra over brickwork for face brickwork in beamfilling	m2	3
7	Fair raking and cutting	m	10
<u>Brick-on-edge header course copings, sills, etc of (purchase price R 5 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:</u>			
8	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 11 Omm soffit	m	4
9	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	4
10	Fair raking cutting and fitting around pipe not exceeding 100mm diameter.	No	2
<u>BRICKWORK SUNDRIES</u>			
<u>Joint forming material in movement joints:</u>			
11	12mm Fibre board built in vertically through brick walls	m	10
<u>2.5mm Brickwork reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	109
13	150mm Wide reinforcement built in horizontally	m	402
Carried Forward			R
Section No. 3 Type SM2+2UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
1	In walls	m2	4	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
2	Under surface beds	m2	14	
	<u>JOINT SEALANTS ETC</u>			
	<u>Two- part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
3	6 x 10mm In saw cut joints in floors	m	3	
	<u>White silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
4	6 x 10mm In expansion joints in floors, including raking out expansion joint filler as necessary.	m	3	
	Carried Forward to Summary of Section No. 3			
	Section No. 3			
	Type SM2+2UR			
	Bill No. 4			
	Waterproofing			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 5</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-Lok" 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>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	26	
	<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	14	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm standard rainwater gutters	m	6	
4	Extra over eaves gutter for closed ends	No	2	
	Carried Forward			
	Section No. 3 Type SM2+2UR Bill No. 5 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

Brought Forward			R
<u>Wrought meranti doors hung to steel frames:</u>			
6	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
7	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	2
Carried Forward to Summary of Section No. 3			
Section No. 3			
Type SM2+2UR			
Bill No. 6			
Carpentry and Joinery			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 7</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	2	
	<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. 3 Type SM2+2UR Bill No. 7 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION. 3</u>			
	<u>BILL NO. 8</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>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated frames suitable for half brick walls:</u>			
2	Frame for door 813 x 2032mm high	No	2	
	<u>1,6mm Double rebated frames suitable for one brick walls:</u>			
3	Frame for door 813 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard windows</u>			
4	Window type NE1, 533 x 654mm high with burglar bars	No	4	
5	Window type NE 7, 1022 x 654mm high with burglar bars	No	2	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3			
	Type SM2+2UR			
	Bill No. 8			
	Metalwork			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 9</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	14
<u>FLOOR AND WALL SEALERS</u>			
<u>Minimum two coats approved epoxy coat</u>			
2	On screed	m2	14
Carried Forward to Summary of Section No. 3			R
Section No. 3 Type SM2+2UR Bill No. 9 Plastering			
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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</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" or similar approved</u>			
1	"Daisy Elite" 772403 close-coupled WC suite comprising pan with double flap heavy duty thermoset seat (Code: 8531Z0) and matching 9 litre cistern	No	2	
	<u>"Vaal"</u>			
2	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	
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	2	
	<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 SM2+2UR Bill No. 10 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
18	110mm Bend	No	2	
19	110mm Junction	No	2	
20	110mm Reducing Junction	No	2	
21	110mm Access bend	No	2	
22	110mm Double Junction	No	1	
23	110mm "GI Two-way" vent valve	No	2	
	<u>Sundries</u>			
24	Testing waste pipe system		Item	
	<u>WATER SUPPLIES</u>			
	<u>Class 1 copper pipes with capillary couplings:</u>			
25	15mm Pipe fixed to walls, in chases, etc	m	30	
26	Ditto, but 22mm diameter	m	15	
	<u>Extra over Class 1 copper pipes for capillary fittings:</u>			
27	15mm Fittings	No	10	
28	22mm Fittings	No	8	
	<u>Brass</u>			
29	15mm Fullway gate valve	No	1	
30	22mm Fullway gate valve	No	1	
	<u>Sundries</u>			
31	Testing water pipe system		Item	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Type SM2+2UR			
	Bill No. 10			
	Plumbing and Drainage (Provisional)			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Item No	Quantity	Rate	Amount
<u>SECTION NO. 3</u>			
<u>BILL NO. 12</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	6
<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	2
3	On windows with burglar bars	m2	5
4	On gates (measured over the full flat area both sides)	m2	3
5	On gutters and down pipes	m	9
<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 SM2+2UR Bill No. 12 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

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>SITE CLEARANCE, ETC.</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	80	
2	Stripping average 100mm thick layer of top soil and stockpiling on site.	m2	80	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Reduced levels under floors	m3	24	
4	Reduced levels under aprons	m3	9	
5	Trenches	m3	11	
6	Trenches and holes for thickening under surface beds,	m3	17	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
7	Soft rock	m3	1	
8	Hard rock	m3	1	
	Carried Forward		R	
	Section No. 4 Type SFD8 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	6
<u>Risk of collapse of excavations</u>			
10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	31
<u>Keeping excavations free of water</u>			
11	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>			
12	Backfilling to trenches, holes, etc	m3	4
<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
13	Under floors, steps, paving etc.	m3	8
<u>Compaction of surfaces</u>			
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	35
15	Compaction of ground surface to aprons 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	30
<u>Prescribed density tests on filling</u>			
16	"Modified AASHTO Density" test	No	6
Carried Forward			R
Section No. 4 Type SFD8 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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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	Surface blinding under footings and bases	m3	1
2	Aprons cast in panels	m3	3
3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavations, backfilling and etc.	m	17
4	Thickening down apron on edge 110mm deep x 200mm wide.	m	30
<u>REINFORCED CONCRETE</u>			
<u>30MPa/19mm concrete</u>			
5	Surface beds cast in panels on waterproofing.	m3	4
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>30MPa/19mm concrete</u>			
6	Strip footings	m3	4
<u>CONCRETE SUNDRIES</u>			
Carried Forward			R
Section No. 4 Type SFD8 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
7	Aprons and pavings to falls.	m2	30
	<u>TEST BLOCKS</u>		
8	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>Finishing top surfaces of concrete smooth with a steel trowel.</u>		
9	Surface beds, slabs, etc	m2	37
	<u>FORMWORK</u>		
	<u>Rough formwork to sides</u>		
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	31
	<u>MOVEMENT JOINTS ETC</u>		
	<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>		
11	Not exceeding 300mm high to edges of surface beds	m	5
	<u>Saw cut joints</u>		
12	Saw cut joints in top of concrete (Provisional)	m	5
	<u>REINFORCEMENT</u>		
	<u>Mild steel reinforcement to structural concrete work:</u>		
13	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.08
Carried Forward			R
Section No. 4 Type SFD8 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
<u>High tensile steel reinforcement to structural concrete work:</u>			
14	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.33
<u>Fabric reinforcement:</u>			
15	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	35
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Type SFD8			
Bill No. 2			
Concrete, Formwork and Reinforcement			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BUILDER'S WORK</u>			
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>BRICKWORK</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Hollow walls etc</u>			
	Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in ho and humid coastal areas			
	<u>Face Bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 4 Type SFD8 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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>FOUNDATIONS</u>				
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>				
1	One brick walls	m2	17	
<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>				
2	Extra over brickwork for face brickwork in foundation	m2	12	
<u>Brickwork reinforcement</u>				
3	150mm Wide reinforcement built in horizontally	m	151	
<u>SUPERSTRUCTURE</u>				
<u>FACE BRICKWORK</u>				
Carried Forward				R
Section No. 4 Type SFD8 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD				

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Face bricks (purchase price of R 5 500.00/ 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:</u>			
4	Half brickwork for face brick walls pointed both sides	m2	29
5	One brickwork for face brick walls pointed both sides	m2	79
6	Extra over brickwork for face brickwork in beamfilling	m2	7
7	Fair raking and cutting	m	11
<u>Brick-on-edge header course copings, sills, etc of (purchase price R 5 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:</u>			
8	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 11 Omm soffit	m	10
9	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	10
10	Fair raking cutting and fitting around pipe not exceeding 100mm diameter.	No	9
<u>BRICKWORK SUNDRIES</u>			
<u>Joint forming material in movement joints:</u>			
11	12mm Fibre board built in vertically through brick walls	m	2
<u>2.5mm Brickwork reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	329
13	150mm Wide reinforcement built in horizontally	m	709
Carried Forward			R
Section No. 4 Type SFD8 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
1	In walls	m2	6	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
2	Under surface beds	m2	35	
	<u>JOINT SEALANTS ETC</u>			
	<u>Two- part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
3	6 x 10mm In saw cut joints in floors	m	5	
	<u>White silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
4	6 x 10mm In expansion joints in floors, including raking out expansion joint filler as necessary.	m	5	
	Carried Forward to Summary of Section No. 4			
	Section No. 4			
	Type SFD8			
	Bill No. 4			
	Waterproofing			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 5</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-Lok" 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>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	47	
	<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	32	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm standard rainwater gutters	m	9	
4	Extra over eaves gutter for closed ends	No	2	
	Carried Forward			
	Section No. 4 Type SFD8 Bill No. 5 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

Brought Forward			R
<u>Wrought meranti doors hung to steel frames:</u>			
6	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
7	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	8
8	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 SFD8			
Bill No. 6			
Carpentry and Joinery			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 7</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	8	
	<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	2.0	
	<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			
	Section No. 4 Type SFD8 Bill No. 7 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

	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	10		
	<u>BATHROOM FITTINGS</u>				
	<u>"Vaal Paragon" or similar approved</u>				
11	32mm Type 9 back grab rail 800mm long plugged around toilet cistern and 740mm high above floor level and in accordance with SANS 10400-S.	No	1		
12	32mm Type 8 side grab rail 900mm girth plugged 380mm away from the wall (toilet pan and cistern position) and 740mm high above floor level and in accordance with SANS 10400-S.	No	1		
	<u>Kimberley-Clark or Similar:</u>				
13	Kimberly-Clark SQ2 code 405607B white lockable toilet roll holder	No	9		
	Carried Forward			R	
	Section No. 4 Type SFD8 Bill No. 7 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD				

	Brought Forward			R
14	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm et	No	9	
Carried Forward to Summary of Section No. 4				R
Section No. 4				
Type SFD8				
Bill No. 7				
Ironmongery				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

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Item No			Quantity	Rate	Amount
	<u>SECTION NO. 4</u>				
	<u>BILL NO. 10</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>				
	"Vaal" or similar approved				
1	"Daisy Elite" 772403 close-coupled WC suite comprising pan with double flap heavy duty thermoset seat (Code: 8531Z0) and matching 9 litre cistern	No	8		
	<u>"Vaal"</u>				
2	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 (product code 8448Z0) 10mm bolts. Disabled wash hand basin's position to be 250mm away from toilet pan and 650mm high above floor level in accordance with SANS-10400-S.	No	6		
Carried Forward				R	
Section No. 4 Type SFD8 Bill No. 10 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD					

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 12</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	8	
	<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	7	
3	On windows with burglar bars	m2	13	
4	On gates (measured over the full flat area both sides)	m2	7	
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. 4 Type SFD8 Bill No. 12 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward

Three coats matt varnish

6	On doors
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m2

35

R

Carried Forward to Summary of Section No. 4

Section No. 4

Type SFD8

Bill No. 12

Paintwork

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY 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>SITE CLEARANCE, ETC.</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	123	
2	Stripping average 100mm thick layer of top soil and stockpiling on site.	m2	123	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Reduced levels under floors	m3	28	
4	Reduced levels under aprons	m3	12	
5	Trenches	m3	15	
6	Trenches and holes for thickening under surface beds,	m3	26	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
7	Soft rock	m3	1	
8	Hard rock	m3	1	
	Carried Forward		R	
	Section No. 5 Type GRD10+SD1 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	9
<u>Risk of collapse of excavations</u>			
10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	43
<u>Keeping excavations free of water</u>			
11	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>			
12	Backfilling to trenches, holes, etc	m3	6
<u>Approved G5 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density</u>			
13	Under floors, steps, paving etc.	m3	10
<u>Compaction of surfaces</u>			
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	41
15	Compaction of ground surface to aprons 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	38
<u>Prescribed density tests on filling</u>			
16	"Modified AASHTO Density" test	No	10
Carried Forward			R
Section No. 5 Type GRD10+SD1 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward

R

SOIL POISONING

Soil insecticide in accordance with SANS 5859:

17	Soil insecticide (protection against termites) applied as specified under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	41
18	To bottom of concrete aprons	m2	38
19	To bottoms and sides of trenches etc	m2	68

Carried Forward to Summary of Section No. 5

Section No. 5
Type GRD10+SD1
Bill No. 1
Earthworks

PREPARED BY: NYELETI CONSULTING (PTY) LTD

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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>UNREINFORCED CONCRETE,ETC</u>			
	<u>25MPa/19mm concrete</u>			
1	Surface blinding under footings and bases	m3	1	
2	Aprons cast in panels	m3	4	
3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavations, backfilling and etc.	m	26	
4	Thickening down apron on edge 110mm deep x 200mm wide.	m	38	
	<u>REINFORCED CONCRETE</u>			
	<u>30MPa/19mm concrete</u>			
5	Surface beds cast in panels on waterproofing.	m3	4	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm concrete</u>			
6	Strip footings	m3	6	
	<u>CONCRETE SUNDRIES</u>			
	Carried Forward		R	
	Section No. 5 Type GRD10+SD1 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
	<u>Finishing top surfaces of concrete smooth with a wood float</u>		
7	Aprons and pavings to falls.	m2	38
	<u>TEST BLOCKS</u>		
8	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	6
	<u>Finishing top surfaces of concrete smooth with a steel trowel.</u>		
9	Surface beds, slabs, etc	m2	43
	<u>FORMWORK</u>		
	<u>Rough formwork to sides</u>		
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	39
	<u>MOVEMENT JOINTS ETC</u>		
	<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>		
11	Not exceeding 300mm high to edges of surface beds	m	15
	<u>Saw cut joints</u>		
12	Saw cut joints in top of concrete (Provisional)	m	15
	<u>REINFORCEMENT</u>		
	<u>Mild steel reinforcement to structural concrete work:</u>		
13	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.46
Carried Forward			R
Section No. 5 Type GRD10+SD1 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward			R
<u>High tensile steel reinforcement to structural concrete work:</u>			
14	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.11
<u>Fabric reinforcement:</u>			
15	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	41
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Type GRD10+SD1			
Bill No. 2			
Concrete, Formwork and Reinforcement			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>BRICKWORK</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Hollow walls etc</u>			
	Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in ho and humid coastal areas			
	<u>Face Bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 5 Type GRD10+SD1 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY 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>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>			
1	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>			
2	Extra over brickwork for face brickwork in foundation	m2	16
<u>Brickwork reinforcement</u>			
3	150mm Wide reinforcement built in horizontally	m	203
<u>SUPERSTRUCTURE</u>			
<u>FACE BRICKWORK</u>			
Carried Forward			R
Section No. 5 Type GRD10+SD1 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Face bricks (purchase price of R 5 500.00/ 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:</u>			
4	Half brickwork for face brick walls pointed both sides	m2	27
5	One brickwork for face brick walls pointed both sides	m2	95
6	Extra over brickwork for face brickwork in beamfilling	m2	7
7	Fair raking and cutting	m	10
<u>Brick-on-edge header course copings, sills, etc of (purchase price R 5 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:</u>			
8	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 11 Omm soffit	m	12
9	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	12
10	Fair raking cutting and fitting around pipe not exceeding 100mm diameter.	No	11
<u>BRICKWORK SUNDRIES</u>			
<u>Joint forming material in movement joints:</u>			
11	12mm Fibre board built in vertically through brick walls	m	10
<u>2.5mm Brickwork reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	309
13	150mm Wide reinforcement built in horizontally	m	860
Carried Forward			R
Section No. 5 Type GRD10+SD1 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
1	In walls	m2	8	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
2	Under surface beds	m2	41	
	<u>JOINT SEALANTS ETC</u>			
	<u>Two- part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
3	6 x 10mm In saw cut joints in floors	m	5	
	<u>White silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
4	6 x 10mm In expansion joints in floors, including raking out expansion joint filler as necessary.	m	5	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5			
	Type GRD10+SD1			
	Bill No. 4			
	Waterproofing			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 5</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-Lok" 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>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	68	
	<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	48	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm standard rainwater gutters	m	14	
4	Extra over eaves gutter for closed ends	No	2	
	Carried Forward			
	Section No. 5 Type GRD10+SD1 Bill No. 5 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>ROOFS, ETC</u>			
	<u>Sawn softwood grade 5:</u>			
1	38 x 114mm Rafters in lengths exceeding 3,9m and not exceeding 6,6m	m	81	
2	50 x 76mm Purlins	m	95	
	<u>Sundries</u>			
3	Two coats creosote on sawn timbers	m2	48	
4	6mm Diameter galvanised wire tie 3000mm girth wrapped around rafter and purlin with ends tied together	No	32	
5	Hurricane Clips	No	224	
	<u>EAVES, VERGES, ETC</u>			
	<u>Medium density plain fibre-cement fascias and barge boards:</u>			
6	19 x 235mm Fascias and barge boards, including aluminium H-profile jointing strips	m	37	
	<u>DOORS ETC</u>			
	Carried Forward		R	
	Section No. 5 Type GRD10+SD1 Bill No. 6 Carpentry and Joinery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

Brought Forward			R
<u>Wrought meranti doors hung to steel frames:</u>			
7	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 weatherbar.	No	1
8	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
<u>Special made Wrought meranti doors hung to steel/wooden frames:</u>			
9	44mm Framed batten special made overall swing door 813 x 1100mm 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 wooden frame and swing double hinges and as per manufacturer' instructions.	No	10
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Type GRD10+SD1			
Bill No. 6			
Carpentry and Joinery			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 7</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	10	
	<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	2.0	
	<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			
	Section No. 5 Type GRD10+SD1 Bill No. 7 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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-130 Engraved "Male" information sign	No	1
10	DSS-131 Engraved "Disabled" information sign	No	1
<u>SUNDRIES</u>			
11	25mm Diameter wall mounted door stop plugged	No	12
<u>BATHROOM FITTINGS</u>			
<u>"Vaal Paragon" or similar approved</u>			
12	32mm Type 9 back grab rail 800mm long plugged around toilet cistern and 740mm high above floor level and in accordance with SANS 10400-S.	No	1
13	32mm Type 8 side grab rail 900mm girth plugged 380mm away from the wall (toilet pan and cistern position) and 740mm high above floor level and in accordance with SANS 10400-S.	No	1
Carried Forward			R
Section No. 5 Type GRD10+SD1 Bill No. 7 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE

CHUCHEKANI PRIMARY SCHOOL

Brought Forward

R

Kimberley-Clark or Similar:

14

Kimberly-Clark SQ2 code 405607B white lockable toilet roll holder

No

11

15

Brushed stainless steel body, rust resistant, she bin,
approximately 330 x 280 x 180mm et

No

Carried Forward to Summary of Section No. 5

Section No. 5
Type GRD10+SD1
Bill No. 7
Ironmongery

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R

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION. 5</u>			
	<u>BILL NO. 8</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	
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated frames suitable for one brick walls:</u>			
3	Frame for door 813 x 2032mm high	No	1	
4	Frame for door 914 x 2032mm high	No	1	
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard windows</u>			
5	Window type NE1, 533 x 654mm high with burglar bars	No	11	
6	Window type NE 7, 1022 x 654mm high with burglar bars	No	6	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5			
	Type GRD10+SD1			
	Bill No. 8			
	Metalwork			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 9</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	39	
	<u>INTERNAL PLASTER</u>			
	<u>FLOOR AND WALL SEALERS</u>			
	<u>Minimum two coats approved epoxy coat</u>			
2	On screed	m2	39	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5 Type GRD10+SD1 Bill No. 9 Plastering			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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103

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[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 12</u>			
	<u>PAINTWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to be 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	10	
	<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	7	
3	On windows with burglar bars	m2	15	
4	On gates (measured over the full flat area both sides)	m2	7	
5	On gutters and down pipes	m	18	
	<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 GRD10+SD1 Bill No. 12 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

[illegible]

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY 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>SITE CLEARANCE, ETC.</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	188	
2	Stripping average 100mm thick layer of top soil and stockpiling on site.	m2	188	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Reduced levels under floors	m3	56	
4	Reduced levels under aprons	m3	18	
5	Trenches	m3	18	
6	Holes	m3	76	
7	Trenches and holes for thickening under surface beds,	m3	34	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
8	Soft rock	m3	8	
9	Hard rock	m3	4	
	Carried Forward			
	Section No. 6 Type M6+8UR and M6+4UR Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	46
<u>Risk of collapse of excavations</u>			
11	Sides of trench and hole excavations not exceeding 1,5m deep	m2	104
<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	42
<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 floors, steps, paving etc.	m3	10
<u>Compaction of surfaces</u>			
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	38
16	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	50
Carried Forward			R
Section No. 6 Type M6+8UR and M6+4UR Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
17	Compaction of ground surface to aprons 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	60	
	<u>Prescribed density tests on filling</u>			
18	"Modified AASHTO Density" test	No	12	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide in accordance with SANS 5859:</u>			
19	Soil insecticide (protection against termites) applied as specified under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	38	
20	To bottom of concrete aprons	m2	60	
21	To bottoms and sides of trenches etc	m2	60	
22	To bottoms and sides of pit etc	m2	116	
Carried Forward to Summary of Section No. 6				R
Section No. 6				
Type M6+8UR and M6+4UR				
Bill No. 1				
Earthworks				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY 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	Surface blinding under footings and bases	m3	1	
2	Aprons cast in panels	m3	6	
3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavations, backfilling and etc.	m	34	
4	Thickening down apron on edge 110mm deep x 200mm wide.	m	60	
	<u>REINFORCED CONCRETE</u>			
	<u>30MPa/19mm concrete</u>			
5	Surface beds cast in panels on waterproofing.	m3	10	
6	Ditto, but surface bed in pit	m3	8	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm concrete</u>			
7	Strip footings	m3	8	
	Carried Forward			
	Section No. 6 Type M6+8UR and M6+4UR Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

Brought Forward			R
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls.	m2	60
<u>TEST BLOCKS</u>			
9	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	6
<u>Finishing top surfaces of concrete smooth with a steel trowel.</u>			
10	Surface beds, slabs, etc	m2	104
<u>FORMWORK</u>			
<u>Rough formwork to sides</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	62
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>			
12	Not exceeding 300mm high to edges of surface beds	m	15
<u>Saw cut joints</u>			
13	Saw cut joints in top of concrete (Provisional)	m	15
<u>Permanent formwork to soffits</u>			
14	Slabs propped up not exceeding 1,5m high.	m2	18
<u>REINFORCEMENT</u>			
Carried Forward			R
Section No. 6 Type M6+8UR and M6+4UR Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Mild steel reinforcement to structural concrete work:</u>			
15	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.28
<u>High tensile steel reinforcement to structural concrete work:</u>			
16	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.96
<u>Fabric reinforcement:</u>			
17	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	104
18	Mesh ref type 193 fabric reinforcement fixed horizontal in surface beds pits.	m2	50
Carried Forward to Summary of Section No. 6			R
Section No. 6			
Type M6+8UR and M6+4UR			
Bill No. 2			
Concrete, Formwork and Reinforcement			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BUILDER'S WORK</u>			
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>BRICKWORK</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Hollow walls etc</u>			
	Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixéal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in ho and humid coastal areas			
	<u>Face Bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 6 Type M6+8UR and M6+4UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>			
1	One brick walls	m2	20
2	One brick walls in pit.	m2	86
3	Half brick corbelling in pit.	m	64
<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>			
4	Extra over brickwork for face brickwork in foundation	m2	24
<u>Brickwork reinforcement</u>			
5	150mm Wide reinforcement built in horizontally	m	474
<u>SUPERSTRUCTURE</u>			
<u>FACE BRICKWORK</u>			
Carried Forward			R
Section No. 6 Type M6+8UR and M6+4UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Face bricks (purchase price of R 5 500.00/ 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:</u>			
6	Half brickwork for face brick walls pointed both sides	m2	60
7	One brickwork for face brick walls pointed both sides	m2	270
8	Extra over brickwork for face brickwork in beamfilling	m2	14
9	Fair raking and cutting	m	44
<u>Brick-on-edge header course copings, sills, etc of (purchase price R 5 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:</u>			
10	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 11 Omm soffit	m	16
11	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	16
12	Fair raking cutting and fitting around pipe not exceeding 100mm diameter.	No	12
<u>BRICKWORK SUNDRIES</u>			
<u>Joint forming material in movement joints:</u>			
13	12mm Fibre board built in vertically through brick walls	m	12
<u>2.5mm Brickwork reinforcement</u>			
14	75mm Wide reinforcement built in horizontally	m	366
15	150mm Wide reinforcement built in horizontally	m	1 354
Carried Forward			R
Section No. 6 Type M6+8UR and M6+4UR Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
1	In walls	m2	16	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
2	Under surface beds	m2	38	
	<u>JOINT SEALANTS ETC</u>			
	<u>Two- part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
3	6 x 10mm In saw cut joints in floors	m	12	
	<u>White silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
4	6 x 10mm In expansion joints in floors, including raking out expansion joint filler as necessary.	m	12	
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6			
	Type M6+8UR and M6+4UR			
	Bill No. 4			
	Waterproofing			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 5</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-Lok" 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>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	94	
	<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	56	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm standard rainwater gutters	m	18	
4	Extra over eaves gutter for closed ends	No	4	
	Carried Forward			
	Section No. 6 Type M6+8UR and M6+4UR Bill No. 5 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 7</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	12	
	<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	2.0	
	<u>LETTERS, NAMEPLATES, ETC</u>			
	Carried Forward		R	
	Section No. 6 Type M6+8UR and M6+4UR Bill No. 7 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION. 6</u>			
	<u>BILL NO. 8</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 2		
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,6mm Double rebated frames suitable for half brick walls:</u>			
2	Frame for door 813 x 2032mm high	No 12		
	<u>1,6mm Double rebated frames suitable for one brick walls:</u>			
3	Frame for door 813 x 2032mm high	No 2		
	<u>STEEL WINDOWS, DOORS, ETC</u>			
	<u>Standard windows</u>			
4	Window type NE1, 533 x 654mm high with burglar bars	No 16		
5	Window type NE 7, 1022 x 654mm high with burglar bars	No 8		
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6			
	Type M6+8UR and M6+4UR			
	Bill No. 8			
	Metalwork			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 10</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>Supply and Install "Enviroloo systems" or similar approved</u>			
1	"Enviro Loo System 1040 Standard" installed strictly in accordance with manufacturers instructions, unit comprising of top unit and two x louvered inlets (PL.1), drying plate (PL.2), two x air inlets (PL.3), toilet pan, seat and lid (PL.4), 3500mm long outlet vent pipe (PL.5), ventilation extraction unit (PL.6) fixed to wall with vent wall bracket (PL.7), 1 bag mounting screws and organic starter, enzyme and toilet cleaner (PL.8) including all necessary inter connector piping between multiple tanks, emergency outlet piping,etc.	No	12	
2	"Enviro Loo 4- Bowl Urinal Evaporative Tank System " installed strictly in accordance with manufacturers instructions, unit comprising of urinal evaporative tank, urinal bowl (4 Bowls), including brackets, 3500mm long outlet vent pipe, ventilation extraction unit fixed to wall with vent wall bracket, 1 bag mounting screws and organic starter, enzyme and toilet cleaner including all necessary piping, traps, etc.	No	3	
	Carried Forward		R	
	Section No. 6 Type M6+8UR and M6+4UR Bill No. 10 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY 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, 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 etc.	No	4	
	<u>BUDGETARY ALLOWANCES</u>			
	<u>INSPECTION BY "ENVIRO LOO"/SUPPLIER:</u>			
4	Allow an amount of R 8000.00 (Eight Thousand Rand Only) for the two site visits to be made by the "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between Mvula Trust/Limpopo Department of Education and Enviro Loo Options Limpopo.		Item	
5	Profit and attendance for the above		Item	
	<u>TAPS, VALVES, ETC</u>			
	<u>"Cobra Watertech"</u>			
6	19mm chrome plated push button taps to wash trough	No	8	
Carried Forward to Summary of Section No. 6				R
Section No. 6				
Type M6+8UR and M6+4UR				
Bill No. 10				
Plumbing and Drainage (Provisional)				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 12</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	16	
	<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	10	
3	On windows with burglar bars	m2	22	
4	On gates (measured over the full flat area both sides)	m2	6	
5	On gutters and down pipes	m	25	
	<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. 6 Type M6+8UR and M6+4UR Bill No. 12 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

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	283	
2	Stripping average 100mm thick layer of top soil and stockpiling on site.	m2	283	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
3	Reduced levels under floors	m3	85	
4	Reduced levels under aprons	m3	42	
5	Trenches	m3	19	
6	Holes	m3	118	
7	Trenches and holes for thickening under surface beds,	m3	57	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
8	Soft rock	m3	13	
9	Hard rock	m3	8	
	Carried Forward		R	
	Section No. 7 Type 2x F10 and F2SD1 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	115
<u>Risk of collapse of excavations</u>			
11	Sides of trench and hole excavations not exceeding 1,5m deep	m2	174
<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	18
<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 floors, steps, paving etc.	m3	19
<u>Compaction of surfaces</u>			
15	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	65
16	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	67
Carried Forward			R
Section No. 7 Type 2x F10 and F2SD1 Bill No. 1 Earthworks PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
17	Compaction of ground surface to aprons 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	112	
	<u>Prescribed density tests on filling</u>			
18	"Modified AASHTO Density" test	No	15	
	<u>SOIL POISONING</u>			
	<u>Soil insecticide in accordance with SANS 5859:</u>			
19	Soil insecticide (protection against termites) applied as specified under floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	65	
20	To bottom of concrete aprons	m2	112	
21	To bottoms and sides of trenches etc	m2	81	
22	To bottoms and sides of pit etc	m2	189	
Carried Forward to Summary of Section No. 7				R
Section No. 7				
Type 2x F10 and F2SD1				
Bill No. 1				
Earthworks				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO.7</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	Surface blinding under footings and bases	m3	2	
2	Aprons cast in panels	m3	11	
3	Extra over concrete in surface beds for thickening 85mm deep the bottom including all excavations, backfilling and etc.	m	57	
4	Thickening down apron on edge 110mm deep x 200mm wide.	m	94	
	<u>REINFORCED CONCRETE</u>			
	<u>30MPa/19mm concrete</u>			
5	Surface beds cast in panels on waterproofing.	m3	8	
6	Ditto, but surface bed in pit	m3	15	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm concrete</u>			
7	Strip footings	m3	7	
	Carried Forward			
	Section No. 7 Type 2x F10 and F2SD1 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

Brought Forward			R
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
8	Aprons and pavings to falls.	m2	112
<u>TEST BLOCKS</u>			
9	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>Finishing top surfaces of concrete smooth with a steel trowel.</u>			
10	Surface beds, slabs, etc	m2	52
<u>FORMWORK</u>			
<u>Rough formwork to sides</u>			
11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	97
<u>MOVEMENT JOINTS ETC</u>			
<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces:</u>			
12	Not exceeding 300mm high to edges of surface beds	m	18
<u>Saw cut joints</u>			
13	Saw cut joints in top of concrete (Provisional)	m	18
<u>Permanent formwork to soffits</u>			
14	Slabs propped up not exceeding 1,5m high.	m2	67
<u>REINFORCEMENT</u>			
Carried Forward			R
Section No. 7 Type 2x F10 and F2SD1 Bill No. 2 Concrete, Formwork and Reinforcement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<u>Mild steel reinforcement to structural concrete work:</u>			
15	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.84
<u>High tensile steel reinforcement to structural concrete work:</u>			
16	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.21
<u>Fabric reinforcement:</u>			
17	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	51
18	Mesh ref type 193 fabric reinforcement fixed horizontal in surface beds pits.	m2	67
Carried Forward to Summary of Section No. 7			R
Section No. 7			
Type 2x F10 and F2SD1			
Bill No. 2			
Concrete, Formwork and Reinforcement			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BUILDER'S WORK</u>			
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>BRICKWORK</u>			
	<u>Sizes in descriptions</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>Hollow walls etc</u>			
	Descriptions of hollow walls shall be deemed to include leaving fifth perpend of the bottom course of the external skin open as a weep hole.			
	Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.			
	User note: The above preamble generally applies for works in ho and humid coastal areas			
	<u>Face Bricks</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 7 Type 2x F10 and F2SD1 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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>FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>			
1	One brick walls	m2	26
2	One brick walls in pit.	m2	146
3	Half brick corbelling in pit.	m	64
<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>			
4	Extra over brickwork for face brickwork in foundation	m2	36
<u>Brickwork reinforcement</u>			
5	150mm Wide reinforcement built in horizontally	m	2 275
<u>SUPERSTRUCTURE</u>			
<u>FACE BRICKWORK</u>			
Carried Forward			R
Section No. 7 Type 2x F10 and F2SD1 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

Brought Forward			R
<u>Face bricks (purchase price of R 5 500.00/ 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:</u>			
6	Half brickwork for face brick walls pointed both sides	m2	89
7	One brickwork for face brick walls pointed both sides	m2	205
8	Extra over brickwork for face brickwork in beamfilling	m2	15
9	Fair raking and cutting	m	33
<u>Brick-on-edge header course copings, sills, etc of (purchase price R 5 500.00/1000 delivered to site excluding VAT) pointed with recessed joints on all exposed faces:</u>			
10	Extra over brickwork for brick-on-edge header course lintels pointed on two sides and 11 Omm soffit	m	23
11	Face brick-on-edge window sill 220mm wide pointed on two side and on top and set at a angle	m	23
<u>BRICKWORK SUNDRIES</u>			
<u>Joint forming material in movement joints:</u>			
12	12mm Fibre board built in vertically through brick walls	m	15
<u>2,5mm Brickwork reinforcement</u>			
13	75mm Wide reinforcement built in horizontally	m	907
14	150mm Wide reinforcement built in horizontally	m	1 638
<u>Galvanised wire ties etc</u>			
15	6mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	38
Carried Forward			R
Section No. 7 Type 2x F10 and F2SD1 Bill No. 3 Masonry PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For preambles see "Specifications of materials and methods to used - PW 371"			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
1	In walls	m2	18	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
2	Under surface beds	m2	65	
	<u>JOINT SEALANTS ETC</u>			
	<u>Two- part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
3	6 x 10mm In saw cut joints in floors	m	15	
	<u>White silicone sealing compound including backing cord, bond breaker, primer, etc</u>			
4	6 x 10mm In expansion joints in floors, including raking out expansion joint filler as necessary.	m	15	
	Carried Forward to Summary of Section No. 7			
	Section No. 7			
	Type 2x F10 and F2SD1			
	Bill No. 4			
	Waterproofing			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			
			R	

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 5</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-Lok" 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>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	135	
	<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	114	
	<u>RAINWATER DISPOSAL</u>			
	<u>Aluzink seamless metal gutters:</u>			
3	100 x 100 x 0.6mm standard rainwater gutters	m	16	
4	Extra over eaves gutter for closed ends	No	4	
	Carried Forward			
	Section No. 7 Type 2x F10 and F2SD1 Bill No. 5 Roof Coverings PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

Brought Forward			R
<u>Wrought meranti doors hung to steel frames:</u>			
6	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	5
7	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	22
8	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. 7			R
Section No. 7			
Type 2x F10 and F2SD1			
Bill No. 6			
Carpentry and Joinery			
PREPARED BY: NYELETI CONSULTING (PTY) LTD			

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 7</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	6	
	<u>LOCKS</u>			
	<u>"Union Assa Abloy" or similar approved:</u>			
2	50mm Brass padlock	No	6	
3	Four lever lockset	No	6	
4	"Ref. CZ80941SC" Indicator bolt	No	22	
	<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	6.0	
	<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. 7 Type 2x F10 and F2SD1 Bill No. 7 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	3
9	DSS-131 Engraved "Disabled" information sign	No	1
<u>SUNDRIES</u>			
10	25mm Diameter wall mounted door stop plugged	No	28
<u>BATHROOM FITTINGS</u>			
<u>"Vaal Paragon" or similar approved</u>			
11	32mm Type 9 back grab rail 800mm long plugged around toilet cistern and 740mm high above floor level and in accordance with SANS 10400-S.	No	1
12	32mm Type 8 side grab rail 900mm girth plugged 380mm away from the wall (toilet pan and cistern position) and 740mm high above floor level and in accordance with SANS 10400-S.	No	1
<u>Kimberley-Clark or Similar:</u>			
13	Kimberly-Clark SQ2 code 405607B white lockable toilet roll holder	No	23
Carried Forward			R
Section No. 7 Type 2x F10 and F2SD1 Bill No. 7 Ironmongery PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward			R
14	Brushed stainless steel body, rust resistant, she bin, approximately 330 x 280 x 180mm et	No	23	
Carried Forward to Summary of Section No. 7				R
Section No. 7				
Type 2x F10 and F2SD1				
Bill No. 7				
Ironmongery				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No			Quantity	Rate	Amount
	<u>SECTION. 7</u>				
	<u>BILL NO. 8</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	5		
2	Single gate and frame size to fit standard door, size 914 x 2032mm high	No	1		
	<u>PRESSED STEEL DOOR FRAMES</u>				
	<u>1,6mm Double rebated frames suitable for half brick walls:</u>				
3	Frame for door 813 x 2032mm high	No	22		
	<u>1,6mm Double rebated frames suitable for one brick walls:</u>				
4	Frame for door 813 x 2032mm high	No	5		
5	Frame for door 914 x 2032mm high	No	1		
	<u>STEEL WINDOWS, DOORS, ETC</u>				
	<u>Standard windows</u>				
6	Window type NE1, 533 x 654mm high with burglar bars	No	23		
	Carried Forward			R	
	Section No. 7 Type 2x F10 and F2SD1 Bill No. 8 Metalwork PREPARED BY: NYELETI CONSULTING (PTY) LTD				

	Brought Forward			R
7	Window type NE 7,1022 x 654mm high with burglar bars	No	10	
Carried Forward to Summary of Section No. 7				R
Section No. 7				
Type 2x F10 and F2SD1				
Bill No. 8				
Metalwork				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward		R	
<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 "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to be ascertain the enviro loo has been installed correctly at which time a Certificate of Compliance should be issued between Mvula Trust/Limpopo Department of Education and Enviro Loo Options Limpopo.	Item	
4	Profit and attendance for the above	Item	
<u>"Vaal"</u>			
5	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 (product code 8448Z0) 10mm bolts. Disabled wash hand basin's position to be 250mm away from toilet pan and 650mm high above floor level in accordance with SANS-10400-S.	No	1
<u>WASTE UNIONS ETC</u>			
<u>"Cobra Watertech"</u>			
6	38mm "Cobra 316" unslotted waste and plug with chain	No	1
<u>TRAPS ETC</u>			
<u>"Marley"</u>			
7	40mm Flexi butyl rubber trap with reseal "P" trap	No	1
8	15mm "Cobra Watertech Type 431" undertile shower set consisting of 1 pair undertile stoptaps No. 128 Nova, overhead shower arm No. 027 and one Concord shower rose No. 068BJ	No	1
<u>TAPS, VALVES, ETC</u>			
Carried Forward		R	
Section No. 7 Type 2x F10 and F2SD1 Bill No. 10 Plumbing and Drainage (Provisional) PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 12</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	23	
	<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	19	
3	On windows with burglar bars	m2	29	
4	On gates (measured over the full flat area both sides)	m2	21	
5	On gutters and down pipes	m	23	
	<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. 7 Type 2x F10 and F2SD1 Bill No. 12 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD			

	Brought Forward		R	
6	<u>Three coats matt varnish</u> On doors	m2	98	
Carried Forward to Summary of Section No. 7			R	
Section No. 7 Type 2x F10 and F2SD1 Bill No. 12 Paintwork PREPARED BY: NYELETI CONSULTING (PTY) LTD				

CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE

CHUCHEKANI PRIMARY SCHOOL

Section No. 7

Type 2x F10 and F2SD1

SECTION SUMMARY - Type 2x F10 and F2SD1

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Carried to Final Summary

Section No. 7

Type 2x F10 and F2SD1

PREPARED BY: NYELETI CONSULTING (PTY) LTD

Item No		Quantity	Rate	Amount
	<u>SECTION No.8</u>			
	<u>BILL No.1</u>			
	<u>WALKWAY</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	675	
	<u>REMOVAL OF TREES, ETC</u>			
2	Tree stump exceeding 200mm and not exceeding 500mm girth	No	4	
	<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 under paving etc to reduce levels and dispose in prescribed stock piles on site	m3	128	
	Carried Forward		R	
	Section No. 8 Externalworks Bill No. 1 Walkway PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
	<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>			
11	Paving in herringbone bond pattern to falls	m2	506	
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing:</u>			
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	678	
Carried Forward to Summary of Section No. 8				R
Section No. 8				
Externalworks				
Bill No. 1				
Walkway				
PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Item No		Quantity	Rate	Amount
	<u>SECTION No.8</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	2	
	<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	2	
	<u>G7 filling material supplied by the contractor, compacted to 95% Mod AASHTO density:</u>			
3	Under floors, steps, pavings, et	m3	3	
	<u>Compaction of surfaces</u>			
4	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 91% Mod AASHTO density	m2	10	
	<u>Prescribed density tests on filling</u>			
5	"Modified AASHTO Density" test	No	2	
	<u>Soil insecticide in accordance with SANS 5859:</u>			
6	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	10	
	<u>CONCRETE WORK</u>			
	Carried Forward		R	
	Section No. 8 Externalworks Bill No. 2 Ramps PREPARED BY: NYELETI CONSULTING (PTY) LTD			

		Brought Forward			R
		<u>25MPa/19mm reinforced concrete:</u>			
7	Ramps	m3	1		
		<u>CONCRETE SUNDRIES</u>			
		<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
8	Surface beds, slabs, etc to falls	m2	10		
		<u>TEST BLOCKS</u>			
9	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>			
10	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>			
11	Mesh ref type 395 fabric reinforcement fixed horizontal in surface beds.	m2	10		
		<u>BRICKWORK</u>			
		<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>			
12	One brick walls	m2	12		
		<u>FACE BRICKWORK</u>			
		Carried Forward			R
	Section No. 8				
	Externalworks				
	Bill No. 2				
	Ramps				
	PREPARED BY: NYELETI CONSULTING (PTY) LTD				

Brought Forward

R

Face bricks (purchase price of R 5 500.00/ 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:

13	Extra over brickwork for face brickwork in ramps	m2
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3

Carried Forward to Summary of Section No. 8

R

Section No. 8

Externalworks

Bill No. 2

Ramps

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.8</u>			
	<u>BILL No.3</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 diamete	m	12	
4	90 mm diameter	m	12	
	<u>PREFABRICATED STEEL TANK:</u>			
	<u>EARTHWORKS</u>			
	<u>SITE CLEARANCE, ETC.</u>			
5	Remove topsoil to nominal depth 150mm, stockpile and maintain	m2	25	
	<u>BULK EXCAVATION - TANK BASE</u>			
	<u>b) Extra-over for</u>			
6	Intermediate excavation	m3	3	
7	Hard rock excavation	m3	5	
	Carried Forward			
	Section No. 8			
	Externalworks			
	Bill No. 3			
	Water Reticulation			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			
			R	

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<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>G7 filling material supplied by the contractor, compacted to 95% Mod AASHTO density:</u>			
<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>TANK</u>			
12	Supply, handle, install, erect hot dipped galvanised Prefabricated steel tank. 4,88m length x 4.88m width x 2.44m deep(60kL). Including lockable access manhole with built-in screened vent. Internal and external ladder, a level indicator, as well as all fittings required for installation. And the supply, handling, installation, and erection of hot dipped galvanised steel support structures 6m high, including an access ladder with safety cage. As well as all standard fittings required for installation and walkway around tank base with rails	No	1
<u>CONCRETE</u>			
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
13	Binding layer in 15MPa concrete (50mm thick)	m3	1
14	Strength of concrete grade 30/19	m3	23
15	Shutter rough	m2	25
Carried Forward			R
Section No. 8 Externalworks Bill No. 3 Water Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
	<u>SCHEDULED REINFORCEMENT</u>			
16	Steel bars (8 to 40mm diameter bars)	t	3.00	
	<u>UNFORMED SURFACE FINISHES</u>			
17	Steel float	m2	25	
18	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>			
19	75mm	No	4	
20	90mm	No	8	
	<u>Equal Tee</u>			
21	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 bends</u>			
22	75mm	No	1	
23	90mm	No	1	
	<u>25 degree Bends</u>			
24	75mm	No	1	
25	90mm	No	1	
	Carried Forward			R
	Section No. 8			
	Externalworks			
	Bill No. 3			
	Water Reticulation			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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**CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL**

	Brought Forward			R
	<u>22.5 degree Bends</u>			
26	75mm	No	1	
27	90mm	No	1	
	<u>45 degree Bends</u>			
28	75mm	No	1	
29	90mm	No	1	
	<u>Flange adaptors</u>			
30	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>			
31	100mm	No	2	
32	ND100 AVK Dismantling joint PN16 or similar approved	No	4	
33	ND100 flanged cosmos Meinecke WPD bulk meter with digital output or similar approved; Class 16	No	1	
34	ND100 flanged Bermad 70F Y-Pattern strainer or similar approved; Class 16	No	2	
35	ND100 flanged ball valve; Class 16	No	1	
36	Steel Plinths	No	4	
37	DN25 automatic air release valve, Vent O Mat or similar approved brand as per inlet chamber detail; Class 25	No	2	
38	ND25 brass fullway gate valve to sabs 776 Class 10	No	2	
39	ND25 galvanised barrel nipple PN16	No	2	
	Carried Forward			R
	Section No. 8			
	Externalworks			
	Bill No. 3			
	Water Reticulation			
	PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
40	ND100 In line tee with outlet diameter as specified in the nodal descriptions and reduced to 25bsp female end connection PN16	No	2	
41	ND100 mm, 150mm long double flanged pipe, PN 16 to SANS standard	No	2	
42	ND100 mm, 600mm long double flanged pipe, PN 16 to SANS standard	No	2	
43	ND100 flanged Vosa Series 7354 Equilibrium float valve or similar approved; Class 16	No	1	
44	DN100 flanged mild steel flanged sweep tee; flanges drilled according to SANS 1123 table 16	No	1	
45	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	
46	DN25 Female threaded ball valve, PN16	No	1	
47	DN25 Nipple, one end male and one end female threaded	No	1	
48	DN25 automatic air release valve, Vent O Mat or similar approved brand as per tank inlet detail; Class 25	No	1	
49	ND100 mm, 240mm long double flanged pipe, PN 16 to SANS standard	No	1	
50	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 anti-clockwise closing non rising spindle resilient seal gate valves for steel pipes as shown on detailed drawings for pipe diameters</u>			
51	100 mm diameter	No	5	
	Carried Forward			R
	Section No. 8 Externalworks Bill No. 3 Water Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.7</u>			
	<u>BILL No.4</u>			
	<u>RAIN WATER HAVERST</u>			
	<u>EARTHWORKS</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Trenches	m3	17	
	<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	9	
	<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	5	
4	Under floors, steps, pavings, et	m3	3	
	<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 91% Mod AASHTO density	m2	18	
	<u>Prescribed density tests on filling</u>			
6	"Modified AASHTO Density" test	No	5	
	<u>Soil insecticide in accordance with SANS 5859:</u>			
7	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	18	
	Carried Forward			
	Section No. 8			
	Externalworks			
	Bill No. 4			
	Rainwater Harvest			
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Item No	Quantity	Rate	Amount
<u>SECTION No.7</u>			
<u>BILL No.5</u>			
<u>DRINKING FOUNTAINS</u>			
<u>The following for 4 (Four) drinking fountains:</u>			
<u>EARTHWORKS</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
1	Reduced levels under floors	m3	4
<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	4
<u>Compaction of surfaces</u>			
3	Compaction of ground surface under fountain etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 91% Mod AASHTO density	m2	12
<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	12
<u>FORMWORK</u>			
Carried Forward			R
Section No. 8 Externalworks Bill No. 5 Drinking Fountains PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward				R
<u>Rough formwork to sides</u>				
6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	84	
<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	4	
<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	4	
Carried Forward to Summary of Section No. 8				R
Section No. 8				
Externalworks				
Bill No. 5				
Drinking Fountains				
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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
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Item No		Quantity	Rate	Amount
	<u>SECTION No.8</u>			
	<u>BILL No.7</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>EARTHWORKS</u>			
	<u>Excavation in earth not exceeding 4m deep:</u>			
8	Septic Tank	m3	140	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
9	Soft rock	m3	14	
	Carried Forward			
	Section No. 8 Externalworks Bill No. 7 Sewer Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD		R	

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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
	<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 NFP bricks in class II mortar</u>			
24	One brick walls	m2	70	
25	Half brick walls	m2	17	
	<u>BRICKWORK SUNDRIES:</u>			
	<u>2.5mm Brickwork reinforcement</u>			
26	75mm Wide reinforcement built in horizontally	m	44	
	Carried Forward			R
	Section No. 8 Externalworks Bill No. 7 Sewer Reticulation PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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CHUCHEKANI PRIMARY SCHOOL

	Brought Forward			R
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	
Carried Forward to Summary of Section No. 8				R
Section No. 8				
Externalworks				
Bill No. 7				
Sewer Reticulation				
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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE

CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
3	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.	No	2
<u>FENCING AROUND WATER TANK</u>			
<u>Steel palisade fencing, gates, etc including prepare and apply one priming coat and two coats high gloss enamel Traffic Green paint using compressor spay gun on metal stays, gates, framing and etc</u>			
4	1800mm High palisade fencing comprising of 40 x40 x 2mm angle iron welded flash with the back of the post 300mm from top of paling and 300mm from bottom of paling (350mm from ground level), 21 palings per panel consist of 30 x 30 x 2mm x 1 800mm High steel angle iron inserted and firmly welded to the bearers at 133mm centre to centre with "Devil Fork" on top and dove tail at the bottom welded to 76 x 76 x 2mm steel tubing posts 2 400mm long/ high with closing pyramid caps on top and M12 anti vandal nuts and bolts and posts set and cast into and including 300 x 300 x 600mm deep concrete base at 3 000mm centres.	m	28
5	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.	No	1
<u>FENCING AROUND GRADE R FACILITIES</u>			
Carried Forward			R
Section No. 8 Externalworks Bill No. 8 Fencing PREPARED BY: NYELETI CONSULTING (PTY) LTD			

Brought Forward				R
<u>Steel palisade fencing, gates, etc including prepare and apply one priming coat and two coats high gloss enamel Traffic Green paint using compressor spay gun on metal stays, gates, framing and etc</u>				
6	1800mm High palisade fencing comprising of 40 x40 x 2mm angle iron welded flash with the back of the post 300mm from top of paling and 300mm from bottom of paling (350mm from ground level), 21 palings per panel consist of 30 x 30 x 2mm x 1 800mm High steel angle iron inserted and firmly welded to the bearers at 133mm centre to centre with "Devil Fork" on top and dove tail at the bottom welded to 76 x 76 x 2mm steel tubing posts 2 400mm long/ high with closing pyramid caps on top and M12 anti vandal nuts and bolts and posts set and cast into and including 300 x 300 x 600mm deep concrete base at 3 000mm centres.	m	133	
7	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.	No	1	
Carried Forward to Summary of Section No. 8				R
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Bill No. 8				
Fencing				
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CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Item No		Quantity	Rate	Amount
	<u>SECTION No.2</u>			
	<u>BILL No.9</u>			
	<u>EARTHWORKS</u>			
	<u>STORMWATER MANAGEMENT</u>			
	<u>For preambles see "Specifications of materials and methods to be used - PW 371"</u>			
	<u>Earthworks</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
1	Stormwater	m3	71	
	<u>Extra over trench and hole excavations in earth for excavation:</u>			
2	Soft rock	m3	7	
3	Hard rock	m3	4	
	<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	71	
	<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	236	
	Carried Forward		R	
	Section No. 8 Externalworks Bill No. 9 Stormwater Mangement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

TMT-LDOE-2023/2024-LPCL12D
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE
CHUCHEKANI PRIMARY SCHOOL

Brought Forward			R
<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 floors, etc including forming and poisoning shallow furrows against foundation walls, etc filling in furrows and ramming	m2	236
<u>CONCRETE WORKS ,ETC</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	337
10	Extra for fair open end	No	94
11	Extra for fair stopped end	No	94
12	Extra for angle intersection	No	94
<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>			
Carried Forward			R
Section No. 8 Externalworks Bill No. 9 Stormwater Mangement PREPARED BY: NYELETI CONSULTING (PTY) LTD			

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Section No. 8				
Externalworks				
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6	Borehole	180		
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8	Fencing	187		
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