

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BILL NO.1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>MEANING OF TERMS "TENDER / TENDERER"</u></p> <p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p><u>AGREEMENT</u></p> <p>The agreement is to be the JBCC Series 2000 Principal Building Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee, March 2005</p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1, Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable"</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories:</p> <p>Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>		R	

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities

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

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

Definitions (A1)

1 Definitions and interpretation (clause 1)

Clause 1.1 Definition of "**Agreement**" is amended by replacing it with the following:

Agreement means the agreement arising from the signing of the Form of Offer and Acceptance by the parties.

Clause 1.1 Definition of "**Bills of Quantities**" is amended by adding the following:

"...and the Pricing Instructions contained in the Pricing Data" after the word measuring system.

Clause 1.1 Definition of "**Contract Documents**" is amended by adding the following:

".....this Agreement and all other documents referenced therein.." after the word this document"

Clause 1.1 Definition of "**Contract Drawings**" is amended by replacing it with the following:

Contract Drawings means the drawings upon which the tender was accepted and used in preparing the bills of quantities and are available for viewing at the offices of the Principal Agent at the time of tender

Clause 1.1 Definition of "**Contract Sum**" is amended by replacing it with the following:

Contract Sum means the total of prices in the Form of Offer and Acceptance.

Clause 1.1 Definition of "**Schedule**" is amended by adding the following:

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".....and in the **Contract Data**". at the end on the sentence ending with **agreement**

Clause 1.1 Definition of "**Commencement Date**" is added:

"Commencement date" means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect

Clause 1.1 Definition of "**Construction Guarantee**" is amended by replacing it with the following:

"Construction guarantee" means guarantee at call obtained by the **contractor** from an institution approved by the **employer** in terms of the **employer's** construction guarantee form as selected in the **schedule**

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

"Construction period" means the period commencing on the commencement date and ending on the date of practical completion

Clause 1.1 Definition of "**Corrupt Practice**" is added:

"Corrupt Practice" means the offering , giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution

Clause 1.1 Definition of "**Fraudulent Practice**" is added:

"Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.

Clause 1.1 Definition of "**Interest**" is amended by replacing it with the following:

"Interest" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of

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section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).		
Clause 1.1 Definition of " Principal Agent " is amended by replacing it with the following:		
"Principal Agent" means the person or entity appointed by the employer and named in the schedule . In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule .		
Clause 1.1 Definition of " Security " is amended by replacing it with the following:		
Security " means the form of security provided by the employer or contractor , as stated in the schedule , from which the contractor or employer may recover expense or loss		
	Fixed	Item
	Value Related	Item
	Time Related	Item
<u>Objective and Preparation (A2 - A14)</u>		
Offer, acceptance and performance (clause 2)		
	Fixed	Item
	Value Related	Item
	Time Related	Item
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3	Documents (clause 3)			
	Clause 3.2.1 is amended by replacing "14.1" with "14.0"			
	Clause 3.7 is amended by the addition of the following:			
	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site , to which the employer, principal agent and agents shall have access at all times.			
4	Clause 3.10 is amended by replacing the second reference to " principal agent " with the word " employer "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
4	Design responsibility (clause 4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
5	Employer's agents (clause 5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
6	Contractor's site representative (clause 6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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7	Compliance with laws and regulations (clause 7)			
	Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities 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			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
8	Works risk (clause 8)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
9	Indemnities (clause 9)			
	Clause 9.0 is amended by adding Clause 9.1.4:			
	The contractor indemnifies and holds harmless the employer against all liability, losses, claims, damages, penalties, actions, proceedings or judgments (collectively referred to as "Losses") arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor , but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in one sum or by installments or otherwise shall be included by the contractor in the price and shall be paid by him to those to whom they may be payable. The contractor shall reimburse the employer for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the employer in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the employer is a party.			
	Fixed	Item		
	Carried to Collection		R	
	Section No. 1			
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	Value Related	Item	
	Time Related	Item	
10	<p>Works insurances (clause 10)</p> <p>Clause 10.0 is amended by the addition of the following clauses</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p> <p>10.6 Injury to Persons or loss of or damage to Properties</p> <p>(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for</p>		
	Carried to Collection		R
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whose actions the **employer** is legally liable

(b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable

(c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**

(d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

(e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed

(f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface

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conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

The **contractor** shall, from the commencement **date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor

10.7.2 Injury to persons or loss of or damage to property

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer**

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	proof of such insurance policy, if requested to do so		
	10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole		
		Fixed	Item
		Value Related	Item
		Time Related	Item
11	Liability insurances (clause 11)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
12	Effecting insurances (clause 12)		
		Fixed	Item
		Value Related	Item
		Time Related	Item
13	No clause (clause 13)		
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14	<p>Security (clause 14)</p> <p>Clause 14.0 is amended by:-</p> <p>i) The addition of the following clauses:-</p> <p>Clause 14.7.3</p> <p>"Hand the site over to the contractor subject to agreement that shall be made between the employer and the contractor"</p> <table> <tr> <td data-bbox="790 495 869 529">Fixed</td><td data-bbox="1075 495 1139 529">Item</td></tr> <tr> <td data-bbox="790 562 869 596">Value Related</td><td data-bbox="1075 562 1139 596">Item</td></tr> <tr> <td data-bbox="790 630 869 663">Time Related</td><td data-bbox="1075 630 1139 663">Item</td></tr> </table>	Fixed	Item	Value Related	Item	Time Related	Item		
Fixed	Item								
Value Related	Item								
Time Related	Item								
15	<p>Preparation for and execution of the works (clause 15)</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) or latest edition, revision and amendments, 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>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1</p> <table> <tr> <td data-bbox="790 1549 869 1583">Fixed</td><td data-bbox="1075 1549 1139 1583">Item</td></tr> <tr> <td data-bbox="790 1617 869 1650">Value Related</td><td data-bbox="1075 1617 1139 1650">Item</td></tr> </table> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>	Fixed	Item	Value Related	Item		R		
Fixed	Item								
Value Related	Item								

		Time Related	Item	
16	Access to the works (clause 16)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
17	Contract instructions (clause 17)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
18	Setting out of the works (clause 18)			
	<i>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments</i>			
	<i>The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular interval to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense.</i>	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
19	Assignment (clause 19)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
		Carried to Collection		R
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20	Nominated sub-contractors (clause 20) Clause 20.0 Clause 20.1.3 is amended by replacing it with the following: No Clause	Fixed Value Related Time Related	Item Item Item	
21	Selected sub-contractors (clause 21)	Fixed Value Related Time Related	Item Item Item	
22	Employer's direct contractors (clause 22) <i>The Contractor shall allow the direct contractors and employers agents access to the work, allocate reasonable space in the building for storage of their materials, tools and equipment, all to the satisfaction of the Principal Agent. The contractor shall also allow the direct contractors, etc. free of charge, use of their ablution facilities and water and power supply to the and shall in no way hinder or prevent the execution of their works. Attendance may be priced against the relevant specified items in the bills of quantities.</i>	Fixed Value Related Time Related	Item Item Item	
23	Contractor's domestic sub-contractors (Clause 23)	Fixed Value Related	Item Item	
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	Time Related	Item			
<u>COMPLETION</u>					
<u>Completion (A24-A30)</u>					
24	Practical completion (clause 24)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
25	Works completion (clause 25)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
26	Final completion (clause 26)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
27	Latent defects liability period (clause 27)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
28	Sectional completion (clause 28)				
	Fixed	Item			
	Value Related	Item			
	Time Related	Item			
29	Revision of date of practical completion (clause 29)				
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Clause 29.1.1 shall be deemed to be omitted and replaced by the following:

Inclement weather shall be defined as weather in excess of the average rainfall (volume and period) for each calendar month over the past ten (10) years as recorded by the nearest commonly recognised weather bureau in the region of the project

It shall be deemed that the contractor has adequately allowed in his programme and tendered rates for expenses which might result from delays due to average or below rainfall as described above

Add Clause 29.9 as follows:

Revision to the date for **practical completion** shall only be considered when work on the critical path of the agreed programme for the works is delayed."

Add Clause 29.10 as follows:

Clause 29.10 - Acceleration

Clause 29.10.1

Irrespective of whether or not the **principal agent** rules that the **contractor** is entitled to an extension of time or a revision of the date for **practical completion**, the **principal agent** shall nevertheless, at any time, be entitled to instruct the **contractor** in writing to accelerate the progress of the remaining **works** to ensure that the **works** are completed by the original date for **practical completion** or revised date as the case may be.

Clause 29.10.2

Upon receipt of such instruction, the **contractor** shall take all necessary steps to ensure that the **works** are completed timeously including the provision by him of additional resources, plant, manpower, etc and the working overtime or additional overtime beyond that contemplated at the time of tender (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The **contractor** shall prove that such steps are being taken if called upon to do so.

Clause 29.10.3

The **contractor's** entitlement to compensation

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	<p>arising out of or in respect of any revision to the date for practical completion that may have been granted by the principal agent or alternatively where the principal agent has instructed the contractor to accelerate, shall be adjudicated strictly in terms of clause 32.</p> <p>Fixed</p> <p>Fixed</p> <p>Value Related</p> <p>Time Related</p>		
30	<p>Penalty for non-completion (clause 30)</p> <p>Clause 30 is amended by replacing reference to 36.3 at end of sentence with 36.0</p> <p>Fixed</p> <p>Value Related</p> <p>Time Related</p>		
	<p><u>Payment (A31 - A35)</u></p>		
31	<p>Interim payment to the contractor (clause 31)</p> <p>Clause 31.9 is amended by replacing "seven (7) calender days" with "thirty (30) calender days" and by deleting the words "subject to the contractor giving the employer a tax invoice for the amount due</p> <p>Clause 31.12 is amended by deleting the following</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p> <p>Fixed</p> <p>Value Related</p> <p>Time Related</p>		
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32	Adjustment to the contract value (clause 32)			
	Clause 32.0			
	Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence: "due to no fault of the contractor "			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
33	Recovery of expense and loss (clause 33)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
34	Final account and final payment (clause 34)			
	Clause 34.0			
	Clause 34.2 is amended by inserting # next to 34.2			
	Clause 34.13 is amended by replacing "seven (7) calendar days " with "thirty (30) calendar days " and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
35	Payment to other parties (clause 35)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
		Carried to Collection		
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	<u>Cancellation (A36-A39)</u>		
36	<p>Cancellation by employer - contractor's default (clause 36)</p> <p>Clause 36.1 is amended by the additions of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p> <p>36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p>		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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37	<p>Cancellation by employer - loss and damage (clause 37)</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p>	<p>Fixed</p> <p>Value Related</p> <p>Time Related</p>	<p>Item</p> <p>Item</p> <p>Item</p>	
38	<p>Cancellation by contractor - employer's default (clause 38)</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p>	<p>Fixed</p> <p>Value Related</p> <p>Time Related</p>	<p>Item</p> <p>Item</p> <p>Item</p>	<p>R</p>

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39	<p>Cancellation - cessation of the works (clause 39)</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one-hundred and twenty (120) working days of completion of such report"</p> <p>Fixed Value Related Time Related</p>	Item Item Item	
<u>Dispute Settlement (A40)</u>			
40	<p>Disputes Settlement (clause 40)</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs.</p>	Fixed Value Related Time Related	Item Item Item
<u>State Provision (A41)</u>			
41	<p>State Substitutions (clause 41)</p> <p>Delete in the Substitute Provisions (41.0 State Clauses) clauses 40.2.1, 40.2.2, 40.3, 40.4, 40.5 and 40.6 and replace with the following:</p> <p>40.1 Should any dispute between the employer, his agents or principal agent on the one hand and the contractors on the other arise out of this agreement, such dispute shall be referred to adjudication.</p>	Carried to Collection	R
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40.2 Adjudication shall be conducted in accordance with the edition of the JBCC Rules for Adjudication current at the time when the dispute is declared. The party, which raises the dispute, shall select three adjudicators from the panel of adjudicators published by the South African Institution of Civil Engineering or Association of Arbitrators (Southern Africa), determine their hourly fees and confirm that these adjudicators are available to adjudicate the dispute in question. The other party shall then select within 7 days one of the three nominated adjudicators, failing which the chairman for the time being of the Association of Arbitrators (Southern Africa) shall nominate an adjudicator. The **adjudicator** shall be appointed in terms of the Adjudicators Agreement set out in C1.4 .

40.3 If provided in the **schedule**, a dispute shall be finally settled by a single Arbitrator to be agreed on between the parties or, failing such agreement within 28 days after referring the dispute to Arbitration, an Arbitrator nominated by the chairman for the time being of the Association of Arbitrators (Southern Africa). Any such reference shall be deemed to be a submission to the arbitration of a single arbitrator in terms of the Arbitration Act (Act No 42 of 1965, as amended), or any legislation passed in substitution therefore. In the absence of any other agreed procedure, the arbitration shall take place in accordance with the Rules for the Conduct of Arbitrations issued by the Association of Arbitrators (Southern Africa) which are current at the time of the referral to arbitration. The Arbitrator shall, in his award, set out the facts and the provisions of the contract on which his award is based.

40.4 If the **schedule** provides for court proceedings to finally resolve disputes, disputes shall be determined by court proceedings.

Fixed

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Value Related

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	SECTION B: PRELIMINARIES		
	<u>Definition and interpretation (B1)</u>		
43	Definition and interpretation		
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	<u>Documents (B2)</u>		
44	Checking of documents (B2.1)		
	<i>These bills of quantities:</i>		
	(1) <i>contain pages and annexes as indexed, and;</i>		
	(2) <i>are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances</i>		
	<i>Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</i>		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
45	Provisional bills of quantities (B2.2)		
	Fixed	Item	
	Value Related	Item	
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	Time Related	Item	
46	Availability of construction documentation (B2.3)		
	<i>The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period</i>		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
47	Interests of agents (B2.4)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
48	Priced documents (B2.5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
49	Tender submission (B2.6)		
	<i>Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders</i>		
	<i>Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance C1.1"</i>		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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	<u>The site (B3)</u>			
50	Defined works area (B3.1)	Fixed	Item	
	Value Related	Item		
	Time Related	Item		
51	Geotechnical investigation (B3.2)	Fixed	Item	
	Value Related	Item		
	Time Related	Item		
52	Inspection of the site (B3.3)			
	<p><i>Tenderers are instructed to familiarise themselves before submission of their tender with regard to the relevant local site conditions, site accessibility, the nature of operations required, availability of labour and any conditions pertaining thereto, together with conditions relating to unloading, carting and storage of materials, equipment and tools required for the works.</i></p> <p><i>No claims for extras arising from the contractor having failed to comply with this clause will be entertained</i></p>			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
53	Existing premises occupied (B3.4)	Fixed	Item	
	Value Related	Item		
	Time Related	Item		
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	Value Related	Item	
	Time Related	Item	
60	Inspection of adjoining properties, etc (B3.11)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
	<u>Management of contract (B4)</u>		
61	Management of the works (B4.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
62	Programming for the works (B4.2)		
	Clause B4.2 is hereby amended by the addition of the following:		
	Programme:		
	The contractor and the principal agent shall agree to a Contract Programme for the control of the Works.		
	The contractor shall submit a draft of the Contract Programme and method statement to the principal agent for approval together with the tender.		
	The contractor shall ensure that the contract programme:		
	<ol style="list-style-type: none"> 1. Shall be prepared and drawn up to comply in all respects with the requirements of this Agreement. 2. shall be drawn up using logic developed during the tender period and complies with the planning requirements of the Client. 3. shall be in accordance with the dates given herein for possession and practical completion; and 4. shall be in sufficient and approved detail to ensure effective control of the work, including all 		
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items necessary to enable calculations to be made for the distribution of finance during the cashflow analysis.

5. shall be accompanied by a full written method statement

The principal agent shall examine and comment on the contract programme and method statement within two weeks of its submission.

Following on these comments the contractor shall amend the contract programme and method statement as may be necessary and submit the final contract programme and method statement to the principal agent for approval within a further two weeks thereafter.

The contract programme shall be processed by computer and be presented to the principal agent in the form of logic charts and bar charts in such a way as to determine the critical path and the float on non-critical activities. All supporting printouts must be available to the principal agent on demand.

The acceptance by the principal agent of the contract programme, or any revision thereof, does not necessarily sanction the accuracy of validity of the network logic, the correctness of individual activities in terms of description or duration, the comprehensiveness of networks or the discrepancies between drawings and any other documents presented by the contractor, and in no way relieves the responsibility of the contractor to comply with the requirements of the Agreement.

No policy decisions other than the planning requirements, procedures and policies provided, will be enforced on the contractor regarding construction of the project and the contractor shall be responsible at all times for ensuring the accuracy, validity and reasonableness of programming information.

Documentation will not be available in complete detail at the date of award of the contract. Non-availability of information will not be deemed an excuse for non-presentation of programmes. In the event of inadequate information, the contractor shall estimate the predicted time applications on available information and qualify the submission accordingly.

Development of the contract programme and method statement

Within two weeks of award of the contract, the contractor shall submit an updated contract programme

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and written method statement which shall include the latest information in sufficient detail to permit comprehensive monitoring.

Progress of the works will be monitored by the principal agent. The contractor shall liaise with the principal agent in order to provide whatever information is required to facilitate such monitoring.

Revisions to the contract programme

Revisions to the contract programme may be introduced periodically by the contractor subject to compliance with the contract completion and handover dates.

Providing the required consultation between the relevant parties has highlighted the implications of the required changes, the programming strategy on the project may be changed and the changes noted and specified on logic charts delivered to the principal agent. The changes to the programme will be recorded as firm and binding once the principal agent has sanctioned the said changes.

A revision to the programme will not invalidate the contractual completion dates and applications for extensions of time will be processed by the principal agent in accordance with the conditions of contract.

Should the contractor fail to submit a request for revision to the construction programme, progress monitoring shall be based on the latest revised programme sanctioned by the principal agent.

The contractor shall make all his necessary revisions on the approved network sheets clearly marking, inter-alia, the logic changes and duration changes. These will then be processed by the necessary parties and then approved in the normal manner.

Progress Monitoring

The contractor shall provide regular progress reports showing actual and expected progress against the latest contract programme. Progress reports shall be submitted at each site progress meeting and shall outline the progress against key target dates and deviation which has occurred against the most recently updated control programme due to the progress reflected in the as-built construction programme.

The status of each activity must also be reported as follows:

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Target - If the activity is not complete, the latest predicted completion date shall be supplied.

Start - If the activity has commenced, the actual date shall be supplied.

Finish - If the activity is complete, the actual completion date shall be supplied.

Problems which may occur during execution of the contract must be specifically identified in progress reports under a separate section of the contractor's report.

Should problems occur during the execution of the contract or the scope of work be increased or decreased, the contractor may be requested to increase the extent or the detail of the programme.

The principal agent may recommend action to be taken by the contractor, including the revision of resource levels, but this information will not be binding on the contractor unless the recommendations are enforced in terms of the conditions of contract by the principal agent and will in no way relieve the contractor's responsibility to comply with the requirements of the Agreement.

Extension of time

Any extension of time which is granted by the principal agent will be annotated to affect selected activities in the programme and the associated activities will be incorporated by revisions to the programme by the contractor. Should the additional activities or the extension of time on existing activities fall on a non-critical area of the programme, extension will be limited to the activities affected by the said additional activities or extensions and the contract dates shall not be affected. If, however, the additional activities fall on the critical path, the principal agent shall take this into account when granting any extension of time in terms of the conditions of contract.

The contractor agrees that the contract completion date (i.e. the date for practical completion) has been stipulated in the contract for the benefit of the employer, so that, without derogating from the generality of the foregoing principle it is provide that:

1. The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and

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2.	Should there for any reason be any float period indicated in the contract programme prior to the contractual completion date then this float period shall be utilized to absorb any delays or extensions of time without affecting the contract completion date.		
3.	The contractor shall, at all times, ensure that, notwithstanding the approval or sanctioning, reviewing or inspection of a programme or any revision of a programme by the principal agent in the foregoing terms, practical completion and completion of the works shall take place strictly in accordance with this Agreement.		
<p>A defective or faulty programme, even if so sanctioned, approved, reviewed or inspected by the principal agent, shall therefore not constitute a cause for granting an extension of time for completion of the works or for entitling the contractor to the payment by the employer in terms of the contract of any loss, compensation or damage whatsoever.</p> <p>The contractor acknowledges that the principal agent's foregoing participation in the approval of development of, revisions to and updating of the Contract Programme shall take place in consultation with the principal agent. The contractor shall therefore provide the principal agent with such co-operation and/or information and/or access as they may reasonably require for such purposes.</p>			
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
<p>Progress meetings (B4.3)</p>			
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
<p>Technical meetings (B4.4)</p>			
	Fixed	Item	
<p style="text-align: center;">Carried to Collection</p>			
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		Value Related	Item	
		Time Related	Item	
65	Labour and plant records (B4.5)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
	<u>Samples, shop drawings and manufacturer's instructions (B5)</u>			
66	Samples of materials (B5.1)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
67	Workmanship samples (B5.2)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
68	Shop drawings (B5.3)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
69	Compliance with manufacturer's instructions (B5.4)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
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	<u>Temporary works and plant (B6)</u>		
70	Deposits and fees (B6.1)	Fixed	Item
		Value Related	Item
		Time Related	Item
71	Enclosure of the works (B6.2)	Fixed	Item
		Value Related	Item
		Time Related	Item
72	Advertising (B6.3)	Fixed	Item
		Value Related	Item
		Time Related	Item
73	Plant, equipment, sheds and offices (B6.4)	Fixed	Item
		Value Related	Item
		Time Related	Item
74	Main notice board (B6.5)	Fixed	Item
		Value Related	Item
		Time Related	Item
75	Subcontractors notice board (B6.6)	Fixed	Item
		Value Related	Item
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	Time Related	Item	
Temporary services (B7)			
76 Location (B7.1)			
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
77 Water (B7.2)			
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
78 Electricity (B7.3)			
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
79 Telecommunication facilities (B7.4)			
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
80 Ablution facilities (B7.5)			
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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	<u>Prime cost amounts (B8)</u>			
81	Responsibility for prime cost amounts (B8.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Attendance on nominated and selected subcontractors (B9)</u>			
82	General attendance (B9.1)			
	The schedule rates providing for attendance on nominated subcontractors and other contractors , will be adjusted only if the scope of the work has changed			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
83	Special attendance (B9.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
84	Commissioning - Fuel, water and electricity (B9.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	<u>Financial aspects (B10)</u>			
85	Statutory taxes, duties and levies (B10.1)			
	<i>Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)</i>			
	Fixed	Item		
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		Value Related	Item	
		Time Related	Item	
86	Payment of preliminaries (B10.2)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
87	Adjustment of preliminaries (B10.3)			
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site " with "when submitting his priced bills of quantities "			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
88	Payment certificate cash flow (B10.4)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
	<u>General (B11)</u>			
89	Protection of works (B11.1)			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
90	Protection/isolation of existing/sectionally occupied works(B11.2)			
		Fixed	Item	
		Value Related	Item	
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		Time Related	Item	
91	Site security (B11.3)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
92	Notice before covering work (B11.4)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
93	Disturbance (B11.5)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
94	Enviromental disturbance (B11.6)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
95	Works cleaning and clearing (B11.7)	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
96	Vermin (B11.8)	Fixed	Item	
		Value Related	Item	
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Time Related	Item	
12.1.1 Provisional bills of quantities (B12.1.1) The quantities are provisional: Yes		
12.1.2 Availability of construction documentation (B12.1.2) Construction documentation is complete: Yes		
12.1.3 Interest of agents (B12.1.3) No		
12.1.4 Defined works area (B12.1.4) The area of the works to be occupied by the contractor , any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site		
12.1.5 Geotechnical investigation (B12.1.5) The geotechnical report is available for viewing at the offices of the principal agent Yes		
12.1.6 Existing premises occupied (B12.1.6) [3.4] Specific requirements: The contractor shall execute the works with as little noise and disturbance as possible		
12.1.7 Previous work - Dimensional accuracy (B12.1.7) [3.5] Details: No additional details		
12.1.8 Previous work - defects [3.6] Details: No additional details		
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12.1.8 Services - known (B12.1.9)

[3.7] Details:

Existing services and points of connection are shown on site plan and/or will be pointed out on site by the **principal agent**

12.1.10 Protection of trees

[3.9] Specific requirements:

No trees to be damaged or removed except those specifically designated in writing by the **principal agent**

12.1.11 Inspection of adjoining properties

[3.11] Specific requirements:

None

12.1.12 Enclosure of the works

[6.2] Specific requirements:

Areas where work is taking place shall at all times be blocked off by appropriate means

12.1.13 Offices

[6.4.3] Specific requirements:

The **contractor** shall provide, maintain and remove on completion of the works an office for the exclusive use of the **principal agent**, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

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12.1.14 Main notice board

[6.5] Specific requirements:

The **contractor** shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.

12.1.15 Subcontractors' notice board

[6.6] A notice board is required (yes/no)

No

Specific requirements:

12.1.16 Water

[7.2] Option A (by **contractor**) (yes/no)

Yes

12.1.17 Electricity

[7.3] Option A (by **contractor**) (yes/no)

Yes

12.1.18 Telecommunications

[7.4] Telephone (yes/no)

Yes

Facsimile (yes/no)

Yes

E-mail (yes/no)

Yes

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<p>12.1.19 Ablution facilities</p> <p>[7.5] Option A (by contractor) (yes/no) Yes</p> <p>Option B (by employer) (yes/no) No</p> <p>12.1.20 Protection of existing/sectionally occupied works</p> <p>[11.2] Protection is required (yes/no) Yes</p> <p>12.1.21 Special attendance</p> <p>The contractor must obtain information from all subcontractors at tender stage regarding special attendance that might be required and make allowance for each and every subcontract that requires special attendance</p> <p>[9.2] Subcontractor (1) Details: Subcontractor (2) Details: Subcontractor (3) Details:</p> <p>12.1.22 Protection of the works</p> <p>[11.1] Specific requirements: All work that requires protection during construction must be adequately protected up to practical completion by the contractor</p> <p>12.1.23 Disturbance</p> <p>[11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent</p> <p>12.1.24 Environmental disturbance</p> <p>[11.6] Specific requirements: None</p>			<p>Carried to Collection</p> <p>R</p>
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	Post-tender information (B12.2) All post-tender information for this section will be determined once tender is awarded		
	Fixed Value Related Time Related	Item Item Item	
	12.2.1 Payment of preliminaries [10.2] Option A (prorated) (yes/no) Yes Option B (calculated) (yes/no) No 12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) (yes/no) Yes Option B (detailed breakdown) (yes/no) No 12.2.3 Additional agreed preliminaries items Details: None		
103	Other post tender information (B12.3) All post-tender information for this section will be determined once tender is awarded	Fixed Value Related Time Related	Item Item Item
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SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

104 Clause C1 - Contract drawings

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed

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105 Clause C2 - General Preambles

The "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the trades is deemed to be included herein and shall be read in conjunction with the bills of quantities and be referred to for the full descriptions of work to be done and materials to be used.

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106	<p>Clause C3 - Site instructions</p> <p>All site instructions issued on site shall be recorded in writing within seven (7) calendar days in site instruction book (A4 size and triplicate carbon format), which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only</p> <p>Site instructions may be issued by the architect or any of the consultants only. Copies of the site instructions are to be submitted to the architect and quantity surveyor within seven (7) calendar days of such recording in the site instruction book</p>			
107		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
	Clause C4 - Trade Names			
108	Wherever a trade name for any product has been described in the bills of quantities , the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders			
	If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for		Fixed	Item
		Value Related	Item	
		Time Related	Item	
108	Clause C5 - Overtime			
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorized and indicated in writing, prior to the execution thereof, that costs for such overtime will be borne by the employer		Fixed	Item
108		Carried to Collection		
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108	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

		Value Related	Item	
		Time Related	Item	
109	Clause C6 - As-built drawings			
	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
110	Clause C5 - Labour record			
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
111	Clause C6 - Plant record			
	At the end of each calendar week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works			
		Fixed	Item	
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112	<p>Clause C7 - Non-cession of monies</p> <p>The contractor shall not cede nor assign his rights or claims to any monies due or to become due to him under this contract</p>	<p>Fixed Value Related Time Related</p>	Item	
113	<p>Clause C8 - Occupational Health and Safety Act</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the contractor to thoroughly study the latest Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p>	<p>Fixed Value Related Time Related</p>	Item	
		<p>Fixed Value Related Time Related</p>	Item	
	<p>Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>		R	

114	Clause C9 - Viewing of the school areas	The site is situated in a school area and the tenderer must arrange with the Principal or other responsible school staff to obtain permission to enter the site for tendering purposes	Fixed	Item		
	Clause C10 - Commencement of Works in School Areas	As the works falls within a school area the contractor must give the Principal or other responsible staff member notice before commencement of the works . Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account	Value Related	Item		
	Clause C11 - Entrance Permits to School Areas	As the works falls within a school area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Principal, or chief security officer	Time Related	Item		
	Carried to Collection	R				
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117	<p>Clause C12 - Security Check of Personnel</p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p>			
	<p>Fixed</p> <p>Value Related</p> <p>Time Related</p>		<p>Item</p> <p>Item</p> <p>Item</p>	
118	<p>Clause C13 - HIV/Aids Awareness</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>			
	<p>Fixed</p> <p>Value Related</p> <p>Time Related</p> <p>Carried to Collection</p>		<p>Item</p> <p>Item</p> <p>Item</p>	
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>TMT-DBE-23/24-LPSAFE-OMS-LPCL3A</p> <p>Omitted scope of works - SAFE</p>			<p>R</p>

119	<p>Clause C13.1 - Awareness Champion</p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p>	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
120	<p>Clause C13.2 - Awareness Workshop</p> <p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p>	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
121	<p>Clause C13.3 - Posters, booklets, videos, etc.</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>	Fixed	Item	
		Value Related	Item	
		Time Related	Item	
		Carried to Collection		
	<p>Section No. 1 Bill No. 1 Preliminaries TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>			R

122	<p>Clause C13.4 - Access to Condoms</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p>			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
123	<p>Clause C13.5- Monitoring</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification</p>			
		Fixed	Item	
		Value Related	Item	
		Time Related	Item	
	<p>Carried to Collection</p> <p>Section No. 1 Bill No. 1 Preliminaries TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>			R

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>KGOMOTLOU PRIMARY SCHOOL</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Carefully lifting up and store for re-use (re-use elsewhere)</u>			
1	Precast concrete paving slabs	m2	39	
	<u>Breaking up and removing unreinforced concrete</u>			
2	100mm Thick aprons in patches	m2	36	
	<u>SHE BINS</u>			
	<u>"Volkem" or similar approved SHE bins</u>			
3	12 Litre pedal operated plastic bins (SKU: RTMINIPEDWF)	No	6	
	<u>LETTERS, NAME PLATES, ETC</u>			
	<u>Manufactured by "Assa Abloy" or similar approved</u>			
4	150 x 150mm SS5066E-06SSE10 stainless steel plate with a male symbol	No	3	
5	150 x 150mm SS5066E-06SSE11 stainless steel plate with a female symbol	No	3	
6	150 x 150mm SS5066E-06SSE14 stainless steel plate with a paraplegic symbol	No	1	
	<u>REMOVAL OF SEWER WASTE</u>			
		Carried to Collection		
	Section No. 2			
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	Omitted scope of works - SAFE			

	<u>Cleaning up overflowing tank waste</u>		
7	Removal of septic tank waste by means of a "honey sucker" or similar	Item	
	<u>TEMPORARY TOILETS</u>		
	<u>Temporary chemical toilets</u>		
8	Provide for the supply, maintenance and removal of 5 (five) chemical toilets for learners and teachers during the construction phase up to practical completion (contractual or revised approved practical completion date) - 9 (nine) weeks allowance	Item	
	Carried to Collection		R
	Section No. 2		
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>STORM WATER DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cleaning-up of disturbed areas</u></p> <p>The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent</p> <p><u>Concrete general</u></p> <p>All reinforced concrete is to be compacted with a mechanical vibrator</p> <p><u>Concrete V-channels</u></p> <p>Channels to be cast into alternate sections of 1.5m to form construction joint between panels</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p><u>STORMWATER DRAINAGE</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>			R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	48
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	16
<u>Compaction of surfaces</u>			
3	Compaction of ground surface under V-drains, 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	53
<u>25MPa/19mm unreinforced concrete</u>			
4	V-drains	m3	5
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
5	V-drains to falls	m2	53
<u>Rough formwork to sides</u>			
6	Edges of V-drains not exceeding 300mm high or wide	m	96
<u>Inlet/outlet structures</u>			
7	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	4
Carried to Collection			
Section No. 2 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			
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Bill No. 2			
Storm water drainage			
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Storm water drainage			
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>FRENCH DRAINS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	French drains	m3	41	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock	m3	4	
3	Hard rock	m3	2	
	<u>Risk of collapse of excavations</u>			
4	Sides of excavations for french drains not exceeding 1,5m deep	m2	135	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	32	
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water	Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site compacted to 93% Mod. AASHTO density</u>			
7	In backfilling to top of french drain	m3	8	
	<u>Stone pitching of approximately 12--75mm diameter river stones tightly packed</u>			
8	In french drains	m3	32	
	Carried to Collection			
	Section No. 2			
	Bill No. 3			
	French drains			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

	<u>"Bidem B3" filter fabric with 200mm laps</u>			
9	Around stone filling in sub-soil french drains	m2	162	
	<u>25MPa/19mm unreinforced concrete</u>			
10	Protection slabs over pipes	m3	3	
	<u>UPVC perforated drain pipes (SANS 791) normal duty with socket and rubber ring type including all excavations, backfilling, Class C bedding, compaction, etc in accordance with SANS 1200</u>			
11	50mm Pipes laid in and including trenches not exceeding 1m deep	m	45	
	<u>Extra over uPVC perforated pipes for fittings</u>			
12	50mm Stop end	No	2	
	<u>PVC-U soil and vent pipes</u>			
13	50mm Pipes	m	22	
	<u>Extra over PVC-U soil and vent pipes for fittings</u>			
14	50mm Bend	No	9	
15	50mm Junction	No	2	
	Carried to Collection			R
	Section No. 2			
	Bill No. 3			
	French drains			
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>SCREEN WALLS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"			
	"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukli and material of similar hardness			
	"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m ³ in volume			
	<u>Subterranean water</u>			
	No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
		Carried to Collection		
	Section No. 2 Bill No. 4 Screen walls TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE		R	

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Carried to Collection

Section No. 2

Bill No. 4

Screen walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

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Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SCREEN WALLS

Carried to Collection

Section No. 2

Bill No. 4

Screen walls

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Omitted scope of works - SAFE

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	<u>Site clearance</u>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	11		
	<u>Excavation in earth not exceeding 2m deep</u>				
2	Trenches including spreading excavated material over site	m3	7		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
3	Soft rock	m3	1		
4	Hard rock	m3	0.3		
	<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	30		
	<u>Keeping excavations free of water</u>				
6	Keeping excavations free of water other than subterranean water			Item	
	<u>Compaction of surfaces</u>				
7	Compaction of ground surface under strip footings, 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	11		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>				
8	Backfilling to trenches, holes, etc	m3	2		
	<u>20MPa/19mm unreinforced concrete</u>				
9	Strip footings	m3	2		
	<u>Brickwork of NFP bricks in class II mortar</u>				
10	One brick walls	m2	55		
	Carried to Collection				
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	<u>Joint forming material in movement joints</u>			
11	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	2	
	<u>2.5mm Brickwork reinforcement</u>			
12	150mm Wide reinforcement built in horizontally	m	147	
	<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>			
13	Extra over brickwork for face brickwork	m2	99	
	<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>			
14	220mm Copings on top of one brick walls	m	25	
	<u>Polysulphide sealing compound in</u>			
15	10 x 12 mm Joint including raking out of joint filler or removing strip	m	22	
Carried to Collection				
Section No. 2 Bill No. 4 Screen walls TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE				
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>PAVING, ETC</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Precast concrete paving</u>			
	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications			
	Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
	Clean sand is to be swept into joints between roadstones			
	<u>PAVING</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	111	
	<u>Compaction of surfaces</u>			
2	Compaction of ground surfaces under paved areas 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	111	
	Carried to Collection			R
	Section No. 2			
	Bill No. 5			
	Paving			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

	<u>25MPa/19mm In-situ concrete edge beams</u>			
3	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	24	
	<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>			
4	60mm Thick natural grey paving to assembly areas, walkways, etc	m2	111	
	<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>			
5	Under paving etc	m2	111	
<u>APRONS</u>				
	<u>Compaction of surfaces</u>			
6	Compaction of ground surface at areas where aprons removed including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	36	
	<u>20MPa/19mm unreinforced concrete</u>			
7	Aprons cast in panels	m3	4	
8	Extra over concrete aprons for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	21	
	<u>Finishing top surfaces of concrete smooth with a wood trowel</u>			
9	Aprons, etc to falls	m2	36	
Carried to Collection				
Section No. 2				
Bill No. 5				
Paving				
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A				
Omitted scope of works - SAFE				

	<u>Rough formwork to sides</u>		
10	Edges of aprons not exceeding 300mm high or wide	m	21
<u>PRECAST PAVING SLABS</u>			
<u>Compaction of surfaces</u>			
11	Compaction of ground surface at areas where precast concrete paving slabs removed including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary, level out and compacting to 93% Mod AASHTO density	m2	39
<u>Take from store and re-install</u>			
12	Precast concrete paving slabs	m2	39
Carried to Collection			
Section No. 2 Bill No. 5 Paving TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

Section No. 2			
Bill No. 5			
Paving			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	70		
	71		
	72		
Carried Forward to Summary of Section No. 2			
Section No. 2			
Bill No. 5			
Paving			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			
		R	

<u>SECTION SUMMARY - Kgomotlou Primary School</u>		Page No	Amount
Bill No			
1	Alterations, etc	57	
2	Storm water drainage	60	
3	French drains	63	
4	Screen walls	69	
5	Paving	73	
Carried to Final Summary			R
Section No. 2 TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>MODIMOLLE-2 PRIMARY SCHOOL</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Carefully lifting up and store for re-use (re-use elsewhere)</u>			
1	Precast concrete paving slabs	m2	20	
	<u>Breaking up and removing unreinforced concrete</u>			
2	100mm Thick aprons in patches	m2	10	
	<u>BATHROOM FITTINGS</u>			
	<u>"Volkem" or similar approved SHE bins</u>			
3	12 Litre pedal operated plastic bins (SKU: RTMINIPEDWF)	No	4	
	<u>LETTERS, NAME PLATES, ETC</u>			
	<u>Manufactured by "Assa Abloy" or similar approved</u>			
4	150 x 150mm SS5066E-06SSE10 stainless steel plate with a male symbol	No	4	
5	150 x 150mm SS5066E-06SSE11 stainless steel plate with a female symbol	No	4	
6	150 x 150mm SS5066E-06SSE14 stainless steel plate with a paraplegic symbol	No	1	
	<u>REMOVAL OF SEWER WASTE</u>			
		Carried to Collection		
	Section No. 3			
	Bill No. 1			
	Alterations, etc			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

	<u>Cleaning up overflowing tank waste</u>		
7	Removal of septic tank waste by means of a "honey sucker" or similar	Item	
	<u>TEMPORARY TOILETS</u>		
	<u>Temporary chemical toilets</u>		
8	Provide for the supply, maintenance and removal of 5 (five) chemical toilets for learners and teachers during the construction phase up to practical completion (contractual or revised approved practical completion date) - 9 (nine) weeks allowance	Item	
	Carried to Collection		R
	Section No. 3 Bill No. 1 Alterations, etc TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE		

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>STORM WATER DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cleaning-up of disturbed areas</u></p> <p>The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent</p> <p><u>Concrete general</u></p> <p>All reinforced concrete is to be compacted with a mechanical vibrator</p> <p><u>Concrete V-channels</u></p> <p>Channels to be cast into alternate sections of 1.5m to form construction joint between panels</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p><u>STORMWATER DRAINAGE</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>			R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	68
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	22
<u>Compaction of surfaces</u>			
3	Compaction of ground surface under V-drains, 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	75
<u>25MPa/19mm unreinforced concrete</u>			
4	V-drains	m3	7
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
5	V-drains to falls	m2	75
<u>Rough formwork to sides</u>			
6	Edges of V-drains not exceeding 300mm high or wide	m	136
<u>Inlet/outlet structures</u>			
7	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	3
Carried to Collection			
Section No. 3 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			
R			

		Page No	Amount
Section No. 3			
Bill No. 2			
Storm water drainage			
<u>COLLECTION</u>			
Total Brought Forward from Page No.		78	
		79	
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 2			
Storm water drainage			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>FRENCH DRAINS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>Excavation in earth not exceeding 2m deep</u>			
1	French drains	m3	23	
	<u>Extra over trench and hole excavations in earth for excavation in</u>			
2	Soft rock	m3	2	
3	Hard rock	m3	1	
	<u>Risk of collapse of excavations</u>			
4	Sides of excavations for french drains not exceeding 1,5m deep	m2	75	
	<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	18	
	<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water	Item		
	<u>Earth filling obtained from the excavations and /or prescribed stock piles on site compacted to 93% Mod. AASHTO density</u>			
7	In backfilling to top of french drain	m3	5	
	<u>Stone pitching of approximately 12--75mm diameter river stones tightly packed</u>			
8	In french drains	m3	18	
	Carried to Collection			
	Section No. 3			
	Bill No. 3			
	French drains			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

	<u>"Bidem B3" filter fabric with 200mm laps</u>			
9	Around stone filling in sub-soil french drains	m2	90	
	<u>25MPa/19mm unreinforced concrete</u>			
10	Protection slabs over pipes	m3	2	
	<u>UPVC perforated drain pipes (SANS 791) normal duty with socket and rubber ring type including all excavations, backfilling, Class C bedding, compaction, etc in accordance with SANS 1200</u>			
11	50mm Pipes laid in and including trenches not exceeding 1m deep	m	25	
	<u>Extra over uPVC perforated pipes for fittings</u>			
12	50mm Stop end	No	2	
	<u>PVC-U soil and vent pipes</u>			
13	50mm Pipes	m	32	
	<u>Extra over PVC-U soil and vent pipes for fittings</u>			
14	50mm Bend	No	9	
15	50mm Junction	No	2	
	Carried to Collection			R
	Section No. 3			
	Bill No. 3			
	French drains			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

	Page No	Amount
Total Brought Forward from Page No.	81	-----
	82	-----
Carried Forward to Summary of Section No. 3		
Section No. 3		
Bill No. 3		
French drains		
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A		
Omitted scope of works - SAFE		
R		

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 4</u></p> <p><u>SCREEN WALLS</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukli and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Bill No. 4 Screen walls TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>		R	

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Carried to Collection

Section No. 3

Bill No. 4

Screen walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

R

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SCREEN WALLS

Carried to Collection

Section No. 3

Bill No. 4

Screen walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	13
<u>Excavation in earth not exceeding 2m deep</u>			
2	Trenches including spreading excavated material over site	m3	8
<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	1
4	Hard rock	m3	0.4
<u>Risk of collapse of excavations</u>			
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	34
<u>Keeping excavations free of water</u>			
6	Keeping excavations free of water other than subterranean water	Item	
<u>Compaction of surfaces</u>			
7	Compaction of ground surface under strip footings, 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	13
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>			
8	Backfilling to trenches, holes, etc	m3	3
<u>20MPa/19mm unreinforced concrete</u>			
9	Strip footings	m3	3
<u>Brickwork of NFP bricks in class II mortar</u>			
10	One brick walls	m2	62
Carried to Collection			
Section No. 3			
Bill No. 4			
Screen walls			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

	<u>Joint forming material in movement joints</u>			
11	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	2	
	<u>2.5mm Brickwork reinforcement</u>			
12	150mm Wide reinforcement built in horizontally	m	165	
	<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>			
13	Extra over brickwork for face brickwork	m2	110	
	<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>			
14	220mm Copings on top of one brick walls	m	28	
	<u>Polysulphide sealing compound in</u>			
15	10 x 12 mm Joint including raking out of joint filler or removing strip	m	22	
Carried to Collection				
Section No. 3 Bill No. 4 Screen walls TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE				
R				

Section No. 3			
Bill No. 4			
Screen walls			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	84		
	85		
	86		
	87		
	88		
Carried Forward to Summary of Section No. 3			
Section No. 3			
Bill No. 4			
Screen walls			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			
		R	

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>PAVING, ETC</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Precast concrete paving</u>			
	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications			
	Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
	Clean sand is to be swept into joints between roadstones			
	<u>PAVING</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	113	
	<u>Compaction of surfaces</u>			
2	Compaction of ground surfaces under paved areas 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	113	
	Carried to Collection			R
	Section No. 3 Bill No. 5 Paving TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

<u>25MPa/19mm In-situ concrete edge beams</u>			
3	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	30
<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>			
4	60mm Thick natural grey paving to assembly areas, walkways, etc	m ²	113
<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>			
5	Under paving etc	m ²	113
<u>APRONS</u>			
<u>Compaction of surfaces</u>			
6	Compaction of ground surface at areas where aprons removed including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	34
<u>20MPa/19mm unreinforced concrete</u>			
7	Aprons cast in panels	m ³	3
8	Extra over concrete aprons for thickening size 150mm deep, 200mm top and tapering to 100mm at bottom including all excavation to 100mm, backfilling, etc.	m	34
<u>Finishing top surfaces of concrete smooth with a wood trowel</u>			
9	Aprons, etc to falls	m ²	34
Carried to Collection			
Section No. 3 Bill No. 5 Paving TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

	<u>Rough formwork to sides</u>			
10	Edges of aprons not exceeding 300mm high or wide	m	34	
<u>PRECAST PAVING SLABS</u>				
	<u>Compaction of surfaces</u>			
11	Compaction of ground surface at areas where precast concrete paving slabs removed including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary, level out and compacting to 93% Mod AASHTO density	m ²	20	
<u>Take from store and re-install</u>				
12	Precast concrete paving slabs	m ²	20	
Carried to Collection				
Section No. 3 Bill No. 5 Paving TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE				
R				

Section No. 3			
Bill No. 5			
Paving			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	90		
	91		
	92		
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 5			
Paving			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

<u>SECTION SUMMARY - Modimolle-2 Primary School</u>		Page No	Amount
Bill No			
1	Alterations, etc	77	
2	Storm water drainage	80	
3	French drains	83	
4	Screen walls	89	
5	Paving	93	
Carried to Final Summary			R
Section No. 3 TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>LETAU SENIOR SECONDARY SCHOOL</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>TEMPORARY TOILETS</u>			
	<u>Temporary chemical toilets</u>			
1	Provide for the supply, maintenance and removal of 5 (five) chemical toilets for learners and teachers during the construction phase up to practical completion (contractual or revised approved practical completion date) - 9 (nine) weeks allowance	Item		
	Carried Forward to Summary of Section No. 4	R		
	Section No. 4			
	Bill No. 1			
	Alterations, etc			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>STORM WATER DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cleaning-up of disturbed areas</u></p> <p>The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent</p> <p><u>Concrete general</u></p> <p>All reinforced concrete is to be compacted with a mechanical vibrator</p> <p><u>Concrete V-channels</u></p> <p>Channels to be cast into alternate sections of 1.5m to form construction joint between panels</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p><u>STORMWATER DRAINAGE</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 4 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>			R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	150
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	50
<u>Compaction of surfaces</u>			
3	Compaction of ground surface under V-drains, 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	165
<u>25MPa/19mm unreinforced concrete</u>			
4	V-drains	m3	17
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
5	V-drains to falls	m2	165
<u>Rough formwork to sides</u>			
6	Edges of V-drains not exceeding 300mm high or wide	m	300
<u>Inlet/outlet structures</u>			
7	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2
Carried to Collection			
Section No. 4 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			
R			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>RETAINING WALLS</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukli and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 4 Bill No. 3 Retaining walls TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>		R	

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Carried to Collection

Section No. 4

Bill No. 3

Retaining walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

R

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

RETAINING WALLS

Carried to Collection

Section No. 4

Bill No. 3

Retaining walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	43
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including spreading excavated material over site	m3	11
<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	1
4	Hard rock	m3	1
<u>Back excavation of vertical sides of excavations in earth for working space</u>			
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	60
<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	22
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water	Item	
<u>Compaction of surfaces</u>			
8	Compaction of ground surface under strip footings, 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	43
<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 93% Mod AASHTO density</u>			
9	Backfilling behind retaining walls	m3	13
Carried to Collection			
Section No. 4			
Bill No. 3			
Retaining walls			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

	<u>15MPa/19mm unreinforced concrete</u>			
10	Surface blinding under footings and bases	m3	2	
	<u>25MPa/19mm reinforced concrete</u>			
11	Strip footings	m3	8	
12	Infill to cavity of hollow walls	m3	6	
	<u>Concrete strength test cubes</u>			
13	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	2	
	<u>High tensile steel reinforcement to structural concrete work</u>			
14	10mm Diameter bars	t	0.41	
	<u>Fabric reinforcement</u>			
15	Type 617 fabric reinforcement in concrete infill to walls	m2	58	
	<u>Brickwork of NFP bricks in class II mortar</u>			
16	320mm Hollow walls of two half brick skins	m2	58	
	<u>Joint forming material in movement joints</u>			
17	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	3	
	<u>2.5mm Brickwork reinforcement</u>			
18	75mm Wide reinforcement built in horizontally	m	506	
	<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>			
19	Extra over brickwork for face brickwork	m2	58	
	<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>			
20	320mm Copings on top of hollow walls	m	43	
	Carried to Collection			R
	Section No. 4			
	Bill No. 3			
	Retaining walls			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
21	10 x 20mm In expansion joints in walls, including raking out expansion joint filler as necessary	m	22	
	<u>PVC-U soil and vent pipes</u>			
22	50mm Pipes, 450mm long, through 320mm hollow wall	No	23	

Carried to Collection

Section No. 4

Bill No. 3

Retaining walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

R

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Retaining walls			
<u>COLLECTION</u>			
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Section No. 4			
Bill No. 3			
Retaining walls			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			
		R	

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>PAVING, ETC</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Precast concrete paving</u>			
	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications			
	Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
	Clean sand is to be swept into joints between roadstones			
	<u>PAVING</u>			
	<u>Paving to ablution block areas</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	47	
	<u>Compaction of surfaces</u>			
2	Compaction of ground surfaces under paved areas etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	47	
	<u>Carried to Collection</u>			
	Section No. 4 Bill No. 4 Paving TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE		R	

	<u>25MPa/19mm In-situ concrete edge beams</u>			
3	Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc. <u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>	m	11	
4	60mm Thick natural grey paving to assembly areas, walkways, etc <u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>	m ²	47	
5	Under paving etc	m ²	47	
	Carried to Collection			R
Section No. 4 Bill No. 4 Paving TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE				

Section No. 4			
Bill No. 4			
Paving			
<u>COLLECTION</u>			
	Page No		Amount
Total Brought Forward from Page No.	106		
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Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 4			
Paving			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

<u>SECTION SUMMARY - Letau Senior Secondary School</u>		Page No	Amount
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1	Alterations, etc	95	
2	Storm water drainage	98	
3	Retaining walls	105	
4	Paving	108	
Carried to Final Summary			R
Section No. 4 TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>PITSANENG PRIMARY SCHOOL</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>TEMPORARY TOILETS</u>			
	<u>Temporary chemical toilets</u>			
1	Provide for the supply, maintenance and removal of 5 (five) chemical toilets for learners and teachers during the construction phase up to practical completion (contractual or revised approved practical completion date) - 9 (nine) weeks allowance	Item		
	Carried Forward to Summary of Section No. 5	R		
	Section No. 5 Bill No. 1 Alterations, etc TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>STORM WATER DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cleaning-up of disturbed areas</u></p> <p>The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent</p> <p><u>Concrete general</u></p> <p>All reinforced concrete is to be compacted with a mechanical vibrator</p> <p><u>Concrete V-channels</u></p> <p>Channels to be cast into alternate sections of 1.5m to form construction joint between panels</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p><u>STORMWATER DRAINAGE</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 5 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>			R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	137
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	45
<u>Compaction of surfaces</u>			
3	Compaction of ground surface under V-drains, 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	151
<u>25MPa/19mm unreinforced concrete</u>			
4	V-drains	m3	15
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
5	V-drains to falls	m2	151
<u>Rough formwork to sides</u>			
6	Edges of V-drains not exceeding 300mm high or wide	m	274
<u>Inlet/outlet structures</u>			
7	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2
Carried to Collection			
Section No. 5 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			
R			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>RETAINING WALLS</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukli and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 5 Bill No. 3 Retaining walls TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>		R	

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

Carried to Collection

Section No. 5

Bill No. 3

Retaining walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

R

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

RETAINING WALLS

Carried to Collection

Section No. 5

Bill No. 3

Retaining walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	38
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including spreading excavated material over site	m3	10
<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	1
4	Hard rock	m3	0.5
<u>Back excavation of vertical sides of excavations in earth for working space</u>			
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	53
<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	19
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water	Item	
<u>Compaction of surfaces</u>			
8	Compaction of ground surface under strip footings, 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>Filling of natural gravel material (G5) supplied by the contractor, compacted to 93% Mod AASHTO density</u>			
9	Backfilling behind retaining walls	m3	11
Carried to Collection			
Section No. 5			
Bill No. 3			
Retaining walls			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

	<u>15MPa/19mm unreinforced concrete</u>			
10	Surface blinding under footings and bases	m3	2	
	<u>25MPa/19mm reinforced concrete</u>			
11	Strip footings	m3	7	
12	Infill to cavity of hollow walls	m3	5	
	<u>Concrete strength test cubes</u>			
13	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	2	
	<u>High tensile steel reinforcement to structural concrete work</u>			
14	10mm Diameter bars	t	0.36	
	<u>Fabric reinforcement</u>			
15	Type 617 fabric reinforcement in concrete infill to walls	m2	51	
	<u>Brickwork of NFP bricks in class II mortar</u>			
16	320mm Hollow walls of two half brick skins	m2	51	
	<u>Joint forming material in movement joints</u>			
17	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	3	
	<u>2.5mm Brickwork reinforcement</u>			
18	75mm Wide reinforcement built in horizontally	m	447	
	<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>			
19	Extra over brickwork for face brickwork	m2	51	
	<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>			
20	320mm Copings on top of hollow walls	m	38	
	Carried to Collection			R
	Section No. 5			
	Bill No. 3			
	Retaining walls			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
21	10 x 20mm In expansion joints in walls, including raking out expansion joint filler as necessary	m	19	
	<u>PVC-U soil and vent pipes</u>			
22	50mm Pipes, 450mm long, through 320mm hollow wall	No	20	

Carried to Collection

Section No. 5
 Bill No. 3
 Retaining walls
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A
Omitted scope of works - SAFE

R

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Bill No. 3			
Retaining walls			
<u>COLLECTION</u>			
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Retaining walls			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			
		R	

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>PAVING, ETC</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Precast concrete paving</u>			
	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications			
	Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
	Clean sand is to be swept into joints between roadstones			
	<u>PAVING</u>			
	<u>Paving to ablution block areas</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	150	
	<u>Compaction of surfaces</u>			
2	Compaction of ground surfaces under paved areas 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	150	
	<u>Carried to Collection</u>			
	Section No. 5 Bill No. 4 Paving TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE		R	

<u>25MPa/19mm In-situ concrete edge beams</u>			
Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	5	
<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>			
60mm Thick natural grey paving to assembly areas, walkways, etc	m ²	150	
<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>			
Under paving etc	m ²	150	
Carried to Collection			R
Section No. 5			
Bill No. 4			
Paving			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

Carried to Collection

Section No. 5

Bill No. 4

Bill No.
Paving

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

Omitted scope of works - SAFE

Section No. 5			
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Paving			
<u>COLLECTION</u>			
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Paving			
TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
Omitted scope of works - SAFE			

<u>SECTION SUMMARY - Pitsaneng Primary School</u>		Page No	Amount
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1	Alterations, etc	110	
2	Storm water drainage	113	
3	Retaining walls	120	
4	Paving	123	
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Section No. 5 TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>LEGABENG PRIMARY SCHOOL</u>			
	<u>BILL NO. 1</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>TEMPORARY TOILETS</u>			
	<u>Temporary chemical toilets</u>			
1	Provide for the supply, maintenance and removal of 5 (five) chemical toilets for learners and teachers during the construction phase up to practical completion (contractual or revised approved practical completion date) - 9 (nine) weeks allowance	Item		
	Carried Forward to Summary of Section No. 6	R		
	Section No. 6			
	Bill No. 1			
	Alterations, etc			
	TMT-DBE-23/24-LPSAFE-OMS-LPCL3A			
	Omitted scope of works - SAFE			

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>STORM WATER DRAINAGE</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Cleaning-up of disturbed areas</u></p> <p>The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent</p> <p><u>Concrete general</u></p> <p>All reinforced concrete is to be compacted with a mechanical vibrator</p> <p><u>Concrete V-channels</u></p> <p>Channels to be cast into alternate sections of 1.5m to form construction joint between panels</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p><u>STORMWATER DRAINAGE</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 6 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>			R

<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	198
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including forming shaped bottoms and spreading excavated material over site	m3	65
<u>Compaction of surfaces</u>			
3	Compaction of ground surface under V-drains, 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	217
<u>25MPa/19mm unreinforced concrete</u>			
4	V-drains	m3	22
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
5	V-drains to falls	m2	217
<u>Rough formwork to sides</u>			
6	Edges of V-drains not exceeding 300mm high or wide	m	395
<u>Inlet/outlet structures</u>			
7	Outlet structures to V-drains including excavation, shaping, compaction, backfilling, carting away of excessive excavated material, concrete, formwork, etc	No	2
Carried to Collection			
Section No. 6 Bill No. 2 Storm water drainage TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE			
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<u>COLLECTION</u>			
Total Brought Forward from Page No.	126		
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Bill No. 2			
Storm water drainage			
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>RETAINING WALLS</u></p> <p><u>PREAMBLES</u></p> <p>For preambles see "General Preambles for Trades" (2017 Edition)</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site and the report is available from the principal agent. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, etc, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p>"Soft rock" shall mean hard material, the removal of which warrants the use of pneumatic tools and includes hard shale, ferricite, compact oukli and material of similar hardness</p> <p>"Earth" shall mean all ground other than that classified as "hard rock" or "soft rock" and shall include made-up ground and any loose stones, pebbles or pieces of concrete not exceeding 0,03m³ in volume</p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected. The water table is expected to vary between approximately 3m and 10m below natural ground level. The removal of subterranean water is given separately where required</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 6 Bill No. 3 Retaining walls TMT-DBE-23/24-LPSAFE-OMS-LPCL3A Omitted scope of works - SAFE</p>		R	

Filling and layer work materials

References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter

Samples of potential fill material obtained from excavations, trench excavations, etc are to be submitted to and approved by the engineer prior the re-use thereof as "filling"

All filling obtained from a commercial source should comply to minimum G5 standard

Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported from an approved commercial source

Filling in general shall be compacted to the prescribed percentage Mod AASHTO density

Cleaning-up of disturbed areas

The contractor will be liable to, upon completion, rehabilitate all those areas of the site used for spoiling, mixing of concrete or any other disturbances caused to the site by the contractor by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the principal agent

Concrete general

All reinforced concrete is to be compacted with a mechanical vibrator

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Retaining walls

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Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)

Fabric reinforcement

Standard welded steel fabric reinforcement shall be as included in Table 1 of SANS 1024 and shall have 300mm wide laps

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Brickwork

Brickwork shall be carried up in a uniform manner, no part being raised more than 1.2m above adjoining work

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

All cutting to face bricks must be done by cutting saw and prices to include for the use of mechanical cutting saws

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

RETAINING WALLS

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Retaining walls

TMT-DBE-23/24-LPSAFE-OMS-LPCL3A

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<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	88
<u>Excavation in earth not exceeding 2m deep</u>			
2	Shallow trenches including spreading excavated material over site	m3	22
<u>Extra over trench and hole excavations in earth for excavation in</u>			
3	Soft rock	m3	2
4	Hard rock	m3	1
<u>Back excavation of vertical sides of excavations in earth for working space</u>			
5	Exceeding 500mm and not exceeding 1,5m deep for working space for walls, 500mm away from excavated face including spreading excavated material over site	m2	124
<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	44
<u>Keeping excavations free of water</u>			
7	Keeping excavations free of water other than subterranean water	Item	
<u>Compaction of surfaces</u>			
8	Compaction of ground surface under strip footings, 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	88
<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 93% Mod AASHTO density</u>			
9	Backfilling behind retaining walls	m3	27
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	<u>15MPa/19mm unreinforced concrete</u>			
10	Surface blinding under footings and bases	m3	4	
	<u>25MPa/19mm reinforced concrete</u>			
11	Strip footings	m3	16	
12	Infill to cavity of hollow walls	m3	12	
	<u>Concrete strength test cubes</u>			
13	Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes	Sets	2	
	<u>High tensile steel reinforcement to structural concrete work</u>			
14	10mm Diameter bars	t	0.82	
	<u>Fabric reinforcement</u>			
15	Type 617 fabric reinforcement in concrete infill to walls	m2	119	
	<u>Brickwork of NFP bricks in class II mortar</u>			
16	320mm Hollow walls of two half brick skins	m2	119	
	<u>Joint forming material in movement joints</u>			
17	10mm Bitumen impregnated fibre board built in vertically between brick skins	m2	7	
	<u>2.5mm Brickwork reinforcement</u>			
18	75mm Wide reinforcement built in horizontally	m	1,040	
	<u>Face bricks to match existing pointed with recessed horizontal and vertical joints</u>			
19	Extra over brickwork for face brickwork	m2	119	
	<u>Brick-on-edge header course copings, sills, etc of face bricks to match existing, pointed with recessed joints on all exposed faces</u>			
20	320mm Copings on top of hollow walls	m	88	
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	<u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
21	10 x 20mm In expansion joints in walls, including raking out expansion joint filler as necessary	m	46	
	<u>PVC-U soil and vent pipes</u>			
22	50mm Pipes, 450mm long, through 320mm hollow wall	No	43	
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>PAVING, ETC</u>			
	<u>PREAMBLES</u>			
	For preambles see "General Preambles for Trades" (2017 Edition)			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Precast concrete paving</u>			
	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications			
	Paving is to be laid to herringbone pattern on and including 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)			
	Clean sand is to be swept into joints between roadstones			
	<u>PAVING</u>			
	<u>Paving to ablution block areas</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	60	
	<u>Compaction of surfaces</u>			
2	Compaction of ground surfaces under paved areas etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	60	
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<u>25MPa/19mm In-situ concrete edge beams</u>			
Edge beam 200mm wide x 300mm high overall in lengths not exceeding 3m, bedded 150mm deep and finished smooth on top with steel float with all external angles rounded, including all necessary excavations, formwork, backfilling, etc.	m	8	
<u>"Technicrete Double Zig-Zag" pre-cast concrete interlocking paving (25MPa minimum compressive strength) including cutting and filling in edge restraints against kerbs, edge beams, buildings, etc with approved cemented filling compound, rolling to lock-up condition, etc</u>			
60mm Thick natural grey paving to assembly areas, walkways, etc	m ²	60	
<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>			
Under paving etc	m ²	60	
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Bill No.
Paving

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<u>SECTION SUMMARY - Legabeng Primary School</u>		Page No	Amount
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