

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 1</u>			
	<u>BILL NO. 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	All prices/rates to be net, excluding Value Added Tax			
	<u>General</u>			
	i) The agreement is to be the JBCC Series 2000 Principal Building Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee, March 2005			
	ii) The preliminaries are to be the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, March 2005 edition and shall be deemed to be incorporated herein			
	iv) 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			
	iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	Carried Forward		R	
	Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward

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

A1 DEFINITIONS AND INTERPRETATION

Clause 1.0 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

Carried Forward

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

R

R

Brought Forward

R

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

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 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

Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

Clause 1.6.4 is amended by replacing it with the following:

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

Brought Forward		R
No clause		
1 Fixed:_____ Value related:_____ Time related:_____	Item	
<u>OBJECTIVE AND PREPARATION</u>		
<u>A2 OFFER, ACCEPTANCE AND PERFORMANCE</u>		
<u>Clause 2.0</u>		
2 Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A3 DOCUMENTS</u>		
<u>Clause 3.0</u>		
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.		
Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"		
3 Fixed:_____ Value related:_____ Time related:_____	Item	
<u>A4 DESIGN RESPONSIBILITY</u>		
<u>Clause 4.0</u>		
Clause 4.3 is amended by replacing it with the following:		
No clause		
4 Fixed:_____ Value related:_____ Time related:_____	Item	
Carried Forward		R
Section No. 1		
Bill No. 1		
Preliminaries		
LETLAMORENG		

Brought Forward		R
<u>A5 EMPLOYERS AGENTS</u>		
<u>Clause 5.0</u>		
Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8		
5	Fixed: _____ Value related: _____ Time related: _____	Item
<u>A6 SITE REPRESENTATIVE</u>		
<u>Clause 6.0</u>		
6	Fixed: _____ Value related: _____ Time related: _____	Item
<u>A7 COMPLIANCE WITH REGULATIONS</u>		
<u>Clause 7.0</u>		
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		
7	Fixed: _____ Value related: _____ Time related: _____	Item
<u>A8 WORKS RISK</u>		
<u>Clause 8.0</u>		
8	Fixed: _____ Value related: _____ Time related: _____	Item
<u>A9 INDEMNITIES</u>		
<u>Clause 9.0</u>		
9	Fixed: _____ Value related: _____ Time related: _____	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG		

Brought Forward

R

A10 WORKS INSURANCES**Clause 10.0**

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

General insurances (clause 10

10.5 Damage to the Works

Clause 10.0 is amended by the addition of the following clauses

(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.

(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**

(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

Carried Forward

R

Section No. 1

Bill No. 1

Preliminaries

LETLAMORENG

Brought Forward

(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

10.6 Injury to Persons or loss of or damage to Properties

(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 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 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

(d) 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

Carried Forward

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

R

R

Brought Forward

R

(e) 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 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.

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.

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

	<p style="text-align: center;">Brought Forward</p> <p>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 proof of such insurance policy, if requested to do so.</p> <p>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.</p> <p>10 Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A11 LIABILITY INSURANCES</u></p> <p><u>Clause 11.0</u></p> <p>11 Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A12 EFFECTING INSURANCES</u></p> <p><u>Clause 12.0</u></p> <p>12 Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A13. No clause</u></p> <p>13 Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A14 SECURITY</u></p>		R	
	<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>		R	

Brought Forward

R

Clause 14.0

Clauses 14.1 - 14.8 are amended by replacing them with the following:

14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)

14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor

14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5 or 14.6, as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected.

14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

<p style="text-align: center;">Brought Forward</p> <p>14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor</p> <p>14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor</p> <p>14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor</p> <p>14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender</p> <p>14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>		R	

<p style="text-align: center;">Brought Forward</p> <p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion</p> <p>14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both</p> <p>14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>114.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor</p> <p>14.6.3 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>		R	

	Brought Forward		R
	<p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p>		
14	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>EXECUTION</u></p> <p><u>A15 PREPERATION FOR AND EXECUTION OF THE WORKS</u></p> <p><u>Clause 15.0</u></p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4</p>	Item	
15	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A16 ACCESS TO THE WORKS</u></p>	Item	
	Carried Forward		R
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>LETLAMORENG</p>		

Brought Forward			R
	<u>Clause 16.0</u>		
16	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A17 CONTRACT INSTRUCTIONS</u>		
	<u>Clause 17.0</u>		
17	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A18 SETTING OUT OF THE WORKS</u>		
	<u>Clause 18.0</u>		
	<p>The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments</p> <p>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 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.</p>		
18	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A19 ASSIGNMENT</u>		
	<u>Clause 19.0</u>		
19	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A20 NOMINATED SUB-CONTRACTORS</u>		
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

-15-

Brought Forward			R
	<u>Clause 23.0</u>		
23	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>COMPLETION</u>		
	<u>A24 PRACTICAL COMPLETION</u>		
	<u>Clause 24.0</u>		
24	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A25 WORK'S COMPLETION</u>		
	<u>Clause 25.0</u>		
25	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A26 FINAL COMPLETION</u>		
	<u>Clause 26.0</u>		
	Clause 26.1.2 is amended by inserting # next to 26.1.2		
26	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A27 LATENT DEFECTS LIABILITY PERIOD</u>		
	<u>Clause 27.0</u>		
27	Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>A28 SECTIONAL COMPLETION</u>		
	<u>Clause 28.0</u>		
28	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward

R

A29 REVISION OF DATE FOR PRACTICAL COMPLETION**Clause 29.0**

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

29 Fixed: _____ Value related: _____ Time related: _____

Item

A30 PENALTY FOR NON-COMPLETION**Clause 30.0**

30 Fixed: _____ Value related: _____ Time related: _____

Item

PAYMENT**A31 INTERIM PAYMENT TO THE CONTRACTOR****Clause 31.0**

Interim payment to the contractor (clause 31)

Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"

Clause 31.8 is amended by replacing it with the following two alternative clauses:

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

Brought Forward

R

Alternative A

31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion

31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion

31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate

Alternative B

31.8(B) Where security is a payment reduction in terms of 14.7 has been selected, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion.

31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion.

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

	<p style="text-align: center;">Brought Forward</p> <p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate.</p> <p>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><u>A32 ADJUSTMENT TO THE CONTRACT VALUE</u></p> <p><u>Clause 32.0</u></p> <p>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"</p> <p>31 Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A33 RECOVERY OF EXPENSE AND LOSS</u></p> <p><u>Clause 33.0</u></p> <p>32 Fixed: _____ Value related: _____ Time related: _____</p> <p><u>A34 FINAL ACCOUNT AND FINAL PAYMENT</u></p>		R	
	<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>		R	

Brought Forward		R
<u>Clause 34.0</u>		
Clause 34.1 is amended by removing # next to 34.1		
Clause 34.2 is amended by inserting # next to 34.2		
Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reductions has been applied in terms of 14.7.1"		
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"		
33	Fixed:_____ Value related:_____ Time related:_____	Item
<u>A35 PAYMENT TO OTHER PARTIES</u>		
<u>Clause 35.0</u>		
34	Fixed:_____ Value related:_____ Time related:_____	Item
<u>CANCELLATION</u>		
<u>A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</u>		
<u>Clause 36.0</u>		
Clause 36.1 is amended by the addition of the following :		
36.1.3 refuses or neglects to comply strictly with any of the conditions of contract		
36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa		
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG		

	Brought Forward		R
	<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>		
35	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A37 TERMINATION BY EMPLOYER - LOSS AND DAMAGE</u></p> <p><u>Clause 37.0</u></p>	Item	
36	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</u></p> <p><u>Clause 37.0</u></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>	Item	
	Carried Forward		R
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>LETLAMORENG</p>		

		Brought Forward			R
		<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>			
37	Fixed:_____ Value related:_____ Time related:_____		Item		
	<p><u>A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</u></p> <p><u>Clause 38.0</u></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>				
38	Fixed:_____ Value related:_____ Time related:_____		Item		
	<p><u>A39 CANCELLATION - CESSATION OF THE WORKS</u></p> <p><u>Clause 39.0</u></p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one <input type="checkbox"/> hundred and twenty (120) working days of completion of such report"</p>				
		Carried Forward			R
	<p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>				

Brought Forward		R	
39	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>DISPUTE</u></p> <p><u>A40 DISPUTE SETTLEMENT</u></p> <p><u>Clause 40.0</u></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: 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>	Item	
40	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>SUBSTITUTE PROVISIONS</u></p> <p><u>A41 STATE CLAUSES</u></p> <p><u>Clause 41.0</u></p>	Item	
41	<p>Fixed: _____ Value related: _____ Time related: _____</p> <p><u>CONTRACT VARIABLES</u></p> <p><u>THE SCHEDULE (C1.2 CONTRACT DATA)</u></p> <p><u>A42 PRE-TENDER INFORMATION</u></p>	Item	
Carried Forward		R	
<p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>			

Brought Forward			R
<u>Clause 42.0</u>			
Tenderers are referred to the notes to tenderers for variables pertaining to this contract.			
42	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>A42 POST-TENDER INFORMATION</u>			
<u>Clause 42.0</u>			
The required post-tender information shall be inserted in the agreement after consultation with the contractor			
43	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>SECTION B: JBCC PRELIMINARIES</u>			
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>			
<u>B1.1 Definitions and interpretation</u>			
See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section.			
44	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.0 DOCUMENTS</u>			
<u>B2.1 Checking of documents</u>			
45	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B2.2 Provisional bills of quantities</u>			
46	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward		R
<u>B2.3 Availability of construction documentation</u>		
47	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B2.4 Interests of agents</u>		
48	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B2.5 Priced documents</u>		
49	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B2.6 Tender submission</u>		
Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)".		
50	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B3.0 THE SITE</u>		
<u>B3.1 Defined works area</u>		
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		
51	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B3.2 Geotechnical investigation</u>		
52	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B3.3 Inspection of the site</u>		
Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission		
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG		

Brought Forward		R	
53	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.4 Existing premises occupied</u>			
54	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.5 Previous work - dimensional accuracy</u>			
55	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.6 Previous work - defects</u>			
56	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.7 Services - known</u>			
57	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.8 Services - unknown</u>			
58	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.9 Protection of trees</u>			
59	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.10 Articles of value</u>			
60	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.11 Inspection of adjoining properties</u>			
61	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.0 MANAGEMENT OF CONTRACT</u>			
Carried Forward		R	
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward			R
<u>B4.1 Management of the works</u>			
62	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.2 Programme for the works</u>			
63	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.3 Progress meetings</u>			
64	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.4 Technical meetings</u>			
65	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B4.5 Labour and plant records</u>			
66	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
<u>B5.1 Samples of materials</u>			
67	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.2 Workmanship samples</u>			
68	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.3 Shop drawings</u>			
69	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward			R
<u>B5.4 Compliance with manufacturers instructions</u>			
70	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
<u>B6.1 Deposits and fees</u>			
71	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.2 Enclosure of the works</u>			
72	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.3 Advertising</u>			
73	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.4 Plant, equipment, sheds and offices</u>			
74	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.5 Main notice board</u>			
75	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.6 Subcontractors notice board</u>			
76	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B7.0 TEMPORARY SERVICES</u>			
<u>B7.1 Location</u>			
77	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward			R
<u>B7.2 Water</u>			
78	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B7.3 Electricity</u>			
79	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B7.4 Telecommunication facilities</u>			
80	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B7.5 Ablution facilities</u>			
81	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B8.0 PRIME COST AMOUNTS</u>			
<u>B8.1 Responsibility for prime cost amounts</u>			
82	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>			
<u>B9.1 General attendance</u>			
83	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B9.2 Special attendance</u>			
84	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B9.3 Commissioning - fuel, water and electricity</u>			
85	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10.0 FINANCIAL ASPECTS</u>			
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward		R
<u>B10.1 Statutory taxes, duties and levies</u>		
Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)		
86	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B10.2 Payment for preliminaries</u>		
87	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B10.3 Adjustment of preliminaries</u>		
Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "in his priced bills of quantities / lump sum document submitted with his tender offer".		
88	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B10.4 Payment certificate cash flow</u>		
89	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B11. GENERAL</u>		
<u>B11.1 Protection of the works</u>		
90	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B11.2 Protection / isolation of existing / sectionally occupied works</u>		
91	Fixed: _____ Value related: _____ Time related: _____	Item
<u>B11.3 Security of the works</u>		
92	Fixed: _____ Value related: _____ Time related: _____	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG		

Brought Forward			R
<u>B11.4 Notice before covering work</u>			
93	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>11.5 Disturbance</u>			
94	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.6 Environmental disturbance</u>			
95	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.7 Works cleaning and clearing</u>			
96	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.8 Vermin</u>			
97	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.9 Overhand work</u>			
98	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.10 Instruction manuals and guarantees</u>			
99	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.11 As built information</u>			
100	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B11.12 Tenant installations</u>			
101	Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward

R

B12. SCHEDULE OF VARIABLES**B12.1 Schedule of variables**

This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets.

12.1 PRE TENDER INFORMATION**12.1.1 Provisional Bills of Quantities**

[2.2] The quantities are provisional **YES**

12.1.2 Availability of construction documentation

[2.3] Construction of documentation is complete **YES**

12.1.3 Interest of agents

[2.4] Details: NIL

12.1.4 Defined works area

[3.1] Details: The work area will be pointed out to the contractor by the principal agent to the contractor who will sign written acknowledgement therefore before commencing operations.

12.1.5 Geotechnical investigation

A Geotechnical Investigation Report is included in this document.

Carried Forward

R

Section No. 1

Bill No. 1

Preliminaries

LETLAMORENG

Brought Forward

R

12.1.6 Existing premises occupied

[3.4] Specific requirements: The premises will be in use and occupied during the course of this contract. The contractor shall execute the works in such a manner as will least interfere with the general routine of the occupants of the premises and shall minimise any nuisance from dust, noise or other causes.

12.1.7 Previous work - dimensional accuracy

The contractor shall, within reasonable period after taking possession of the site, but not exceeding ten (10) percent of the construction period or twenty (20) working days whichever is the lesser, check existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the principal agent and request a contract instruction regarding any dimensional inaccuracy found in work previously executed

12.1.8 Previous work - defects

The contractor on becoming aware of a defect in work previously executed shall forthwith notify the principal agent requesting a contract instruction regarding such defect

12.1.9 Services - known

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

12.1.10 Protection of trees

[3.9] Specific requirements: Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged.

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

Brought Forward

R

12.1.11 Inspection of adjoining properties

The contractor shall make his own arrangements with the owners of adjoining properties in order to execute the works

12.1.12 Enclosure of the works

The contractor shall erect, maintain and remove on completion, hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others

12.1.13 Offices

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, suitable 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

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] Specific requirements: NIL

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

<p style="text-align: right;">Brought Forward</p> <p><u>12.1.16 Water</u></p> <p>[7.2] Option A (by contractor) YES</p> <p>Option B (by employer - free of charge) NO</p> <p>Option C (by b employer - metered) NO</p> <p><u>12.1.17 Electricity</u></p> <p>[7.3] Option A (by contractor) YES</p> <p>Option B (by employer - free of charge) NO</p> <p>Option C (by b employer - metered)NO</p> <p><u>12.1.18 Telecommunications</u></p> <p>[7.4] Telephone NO</p> <p>Facsimile NO</p> <p>E-mail YES</p> <p><u>12.1.19 Ablution facilities</u></p> <p>[7.5] Option A (by contractor) YES</p> <p>Option B (by employer - free of charge) NO</p> <p>Option C (by employer - metered) NO</p> <p><u>12.1.20 Protection of existing/sectionally occupied works</u></p> <p>[11.2] Protection is required YES</p> <p><u>12.1.21 Special attendance</u></p> <p>[9.2] Subcontractor (1) details:Subcontractor (2) details:Subcontractor (3) details:Subcontractor (4) details:</p> <p><u>12.1.22 Protection of works</u></p> <p>[11.1] Specific requirements:N/A</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>12.1.23 Disturbance</u></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><u>12.1.24 Environmental disturbance</u></p> <p>[11.6] Specific requirements: N/A</p> <p><u>12.2 POST-TENDER INFORMATION</u></p> <p><u>12.2.1 Payment of preliminaries</u></p> <p>[10.2] Option A (pro-rated) YES/NO</p> <p>Option B (calculates) YES/NO</p> <p><u>12.2.2 Adjustment of preliminaries</u></p> <p>(10.3] Option A (three categories) YES/NO</p> <p>Option B (detailed breakdown) YES/NO</p> <p><u>12.2.3 Additional agreed preliminaries items</u></p> <p>Details: N/A</p> <p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p>Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>	<p style="text-align: center;">R</p>
	R

Brought Forward

R

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

102 Fixed:_____ Value related:_____ Time related:_____

Item

C2 GENERAL PREAMBLES

These tender documents "General Specification (PW 371-A) July 2013" and "Particular Specification (PW 371-B) July 2013" which are both obtainable on Public Works website alternatively a copy can be e-mailed on request from the Quantity Surveyor offices, 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. No claim arising from brevity of description of items fully described in the said Preambles for Trades will be entertained

Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

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

103 Fixed:_____ Value related:_____ Time related:_____

Item

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

Brought Forward		R	
<u>C3 TRADE NAMES</u>			
Wherever a trade name for any product has been described in the bills of quantities / lump sum document, 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.			
104	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>C4 IMPORTED MATERIALS AND EQUIPMENT</u>			
Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer). Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable).			
105	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>C5 VIEWING THE SITE IN SECURITY AREAS</u>			
The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes.			
106	Fixed:_____ Value related:_____ Time related:_____	Item	
Carried Forward		R	
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward

R

C6 COMMENCEMENT OF WORK IN SECURITY AREAS

As the works fall within a security area the contractor must give the unit commander or other responsible officer 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.

107 Fixed:_____ Value related:_____ Time related:_____

Item

C7 ENTRANCE PERMITS TO SECURITY AREAS

As the works fall within a security 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 Defence Force, Police or chief security officer.

108 Fixed:_____ Value related:_____ Time related:_____

Item

C8 SECURITY CHECK OF PERSONNEL

The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified. 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 any document or information relating to the works .

109 Fixed:_____ Value related:_____ Time related:_____

Item

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

Brought Forward

R

C9 PROHIBITION OF TAKING PHOTOGRAPHS

The contractor shall obtain prior authorisation from the employer for the making of any sketches or the taking of any photographs of any site, installation, building or civil works belonging to the employer and shall ensure that all personnel, subcontractors and other persons entering the site shall comply with this requirement as well.

110 Fixed: _____ Value related: _____ Time related: _____

Item

C10 HIV/AIDS AWARENESS

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 / lump sum document. Provision for pricing of HIV/AIDS awareness is made under the two items below 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

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 of "□Section 1: Preliminaries (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

C10.1 AWARENESS CHAMPION

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification.

111 Fixed: _____ Value related: _____ Time related: _____

Item

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

Brought Forward

R

C10.2 AWARENESS WORKSHOPS

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.

112 Fixed:_____ Value related:_____ Time related:_____

Item

C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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.

113 Fixed:_____ Value related:_____ Time related:_____

Item

C10.4 ACCESS TO CONDOMS

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.

114 Fixed:_____ Value related:_____ Time related:_____

Item

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

Brought Forward

R

C10.5 CO-OPERATION OF CONTRACT FOR COST MANAGEMENT

It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors

115 Fixed:_____ Value related:_____ Time related:_____

Item

C10.6 MONITORING

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.

116 Fixed:_____ Value related:_____ Time related:_____

Item

C11 OCCUPATIONAL HEALTH AND SAFETY ACT

The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).

Carried Forward

R

Section No. 1
Bill No. 1
Preliminaries
LETLAMORENG

	Brought Forward		R	
	<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 the duties of the Principal Contractor and Contractors as stipulated in Construction Regulations 2014 , Regulation 7, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance to the duties of the Principal Contractor. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment. Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause 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>			
117	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>C11.1 CODE OF PRACTICE : MANAGING EXPOSURE TO SARS-COV-2 IN THE WORKPLACE (2022)</u></p> <p>The contractor shall comply with all the requirements set out in Section 5 by undertaking a COVID-19 Risk Assessment and Plan to ensure adequate workplace protective measures and also comply with the Hazardous Biological Agents Regulations including personal protective equipment and ventilation.</p>	Item		
118	<p>Fixed:_____ Value related:_____ Time related:_____</p> <p><u>Health & Safety (Updated OHS Act of 1993, Construction Regulations 2014 and DBSA Occupational Health and Safety Specifications)</u></p> <p><u>Personal protective equipment</u></p>	Item		
119	<p>Foot protection (steel toe cap, gum boots)</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 Bill No. 1 Preliminaries LETLAMORENG</p>			

Brought Forward			R
120	Branded long sleeved overalls depicting Contractors Company name and identification	Item	
121	Hand Protection (gloves- pig skin, leather, PVC, Acid Resistant, Impact and Vibration resistant etc)	Item	
122	Head Protection : SABS Approved Hard Hats, Colour Coded - Supervisory (Red) , Labour (Green), First Aid (Blue) , Sun Beams	Item	
123	Ear Protection : SABS Approved Earplugs, Earmuffs	Item	
124	Eye Protection : SABS Approved Goggles , Faceshields, Spectacles, etc)	Item	
125	Respiratory Protection : SABS Approved Dust Masks, Respirators, Filters etc	Item	
126	Visiblity Compliance : Luminuous high visibility safety vests/ jackets/ bibs / head gear, etc	Item	
127	Fall Risk / Fall Protection/ Working at Heights. Applicable to work 2M or more in height	Item	
128	SABS Approved Safety Harness/ double lanyard, retractable , reach etc	Item	
129	Fall Protection and Recovery Plan and Rescue Gear	Item	
130	SANS 50131-1:2017 Approved Portable Ladders	Item	
131	Barricading / Hoading (Supply, Install and Removal	Item	
132	Construction Perimeter (fence, shade netting, poles etc)	Item	
133	Trench and Manhole excavations safety	Item	
134	Roads and Reserves Notices, Warnings and Signage	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward			R
<u>Prepare and compile H&S plan as per site OHS Specification, Scope of Work and Construction Regulations 7(1)(a)</u>			
135	Preparation and compilation of site specific health and safety file and a health and safety working file	Item	
136	Maintenance , review and updating of health and safety file and working file	Item	
<u>Health & Safety Training</u>			
137	Induction Training	Item	
138	First Aid Level 1	Item	
139	Fire Fighting	Item	
140	Working at Heights (all employees conducting work at heights)	Item	
141	Health and Safety Representative	Item	
142	Inhouse Training (E.g. Occupational exposures, induction training, risks and hazards, etc.)	Item	
143	Other - Emergency Evacuation Procedures	Item	
<u>Legal appointments in terms of the OHS Act and Regulations</u>			
144	Full Time SACPCMP Registered Construction Health and Safety Officer CR (8.5	Item	
145	SHE Representative (Section 17)	Item	
146	First Aider - GSR 3(4)	Item	
<u>Other Health and Safety items deemed necessary to comply to OHS Act, Regulations and DBSA / Municipality By-laws and Requirements</u>			
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward		R
<u>Occupational Medicals</u>		
147	Entry medicals assessments (performed and issued by an Occupational Occupational Health Practitioner in the form of Annexure 3 (Construction Regs 7(8))	Item
148	Periodic medical assessments	Item
149	Exit medical assessments	Item
<u>Signage , Information , Display , Awareness</u>		
150	Construction (Fire Fighting, General Information, Mandatory etc)	Item
151	Road and Traffic Control Safety	Item
152	Health and Safety Information Display Board	Item
<u>Construction Vehicle , Mobile Plant and Roads</u>		
153	Equipment (Stop Blocks , Traffic Flags)	Item
154	Rotating strobe lights for construction vehicles and mobile plant	Item
155	Fuel Bay, Service Bay	Item
<u>Fire Fighting and Emergencies</u>		
156	Fire Fighting Equipment	Item
157	Warning Devices (Blow Horn, Whistles)	Item
<u>Emergencies</u>		
158	First Aid	Item
159	Substance Abuse Testing (Breathalyser)	Item
<u>Facilities</u>		
160	Ablution (Male and Female Chemical Toilets)	Item
161	Changing house and lockers	Item
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG		

Brought Forward			R
162	Sheltered eating / rest facility	Item	
163	Site office for H&S personnel	Item	
164	Security/ access control	Item	
165	HCS Storage Facility	Item	
<u>C12 REPORTING BY CONTRACTOR</u>			
The contractor is required to complete the attached Contractors Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided.			
166	Fixed:_____ Value related:_____ Time related:_____	Item	
<u>C13 LOCAL LABOUR AND BUILDING MATERIALS</u>			
<u>C13.1 GENERAL</u>			
Allow for monthly submission of proof of employment of local skilled and unskilled labour to the principal agent.			
It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.			
167	Fixed:_____ Value related:_____ Time related:_____	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries LETLAMORENG			

Brought Forward

R

C13.2 LOCAL BUILDING MATERIALS

Preference shall be given to the supply of materials produced or manufactured in the North West Province provided that:

- a) Such materials comply in all respects with the specific requirements of PW371 specification
- b) The availability of such materials shall not adversely affect the desired progress of the specific works
- c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof

PRELIMINARIES SUMMARY

168 Fixed Preliminaries - Total

Item

169 Value Related Preliminaries - Total

Item

170 Time Related Preliminaries - Total

Item

Carried to Final Summary

R

Section No. 1
 Bill No. 1
 Preliminaries
LETLAMORENG

-49-

Brought Forward

R

General:

In taking down and removing existing work the utmost care shall be observed to prevent any structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work

Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary

Any water supply and other piping that may be encountered and which is found necessary to disconnect, shall after such disconnection or cutting has been authorised by the Representative/Agent, be effectively stopped off and any new connections that may be necessary made with the proper tees, junction pieces, etc. to the satisfaction of the Representative/Agent

The Contractor shall afford every facility to workmen not under his control making disconnections and new connections as required to any services

OLD MATERIALS TO BECOME PROPERTY OF THE CONTRACTOR

Old materials from alterations, except where described as to be "re-used" or "handed over" shall become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities

OLD MATERIALS TO BE CARTED AWAY

Old materials from the alterations, where described as to be "re-used" as well as all rubbish, etc must be regularly carted from the site and not be allowed to accumulate on or around the site

OLD MATERIALS NOT TO BE RE-USED**Carried Forward**

R

Section No. 2

Bill No. 1

Alterations

LETLAMORENG

<p style="text-align: center;">Brought Forward</p> <p>None of the old materials are to be used for new work except where specifically described as being "set aside for re-use"</p> <p>HANDING OVER OF MATERIALS</p> <p>Where certain materials or articles from alterations are described as to be "handed over" to the Representative/Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p> <p>EXISTING BUILDINGS <u>(NOT APPLICABLE)</u></p> <p>The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum of disturbance</p> <p>SIZE PERTAINING TO EXISTING WORK</p> <p>The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work</p> <p>All sizes given in relation to existing work are approximate</p> <p>MAKING GOOD DAMAGED WORK</p> <p>The contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing</p> <p>FORMING NEW OPENINGS OR ALTERING OPENINGS IN EXISTING WALLS</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Bill No. 1 Alterations LETLAMORENG</p>		R	

Brought Forward			R
<p>Descriptions of forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or prestressed concrete lintels, including all reinforcement, formwork, turning pieces, etc., building up jambs or portion of openings as described with brickwork properly toothed and bonded to existing, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described</p> <p>DEMOLITION OF EXISTING STRUCTURES</p> <p>Descriptions of demolition of existing structures where given in number shall be deemed to include demolitions, carting away rubble, levelling and compaction of surfaces</p> <p>BUILDING UP OPENINGS</p> <p>Descriptions of building up existing openings where given in number shall be deemed to include preparing existing surfaces all around, brickwork properly toothed and bonded to existing, wedging up and making good on both sides as described</p> <p>PAINTWORK</p> <p>Where plasterwork on walls, ceilings, etc. is required to be patched or made good, prices are to include for the appropriate priming coat and one undercoat to receive paint finishing coats which are measured elsewhere</p> <p><u>REMOVAL OF EXISTING WORKS</u></p> <p><u>Taking out and removing doors, windows, etc from brickwork</u></p>			
1	Glass from steel windows including cleaning out rebates and preparing for new glass	m2	30
2	Timber single door and frame not exceeding 2.5m2.	No	2
Carried Forward			R
<p>Section No. 2 Bill No. 1 Alterations LETLAMORENG</p>			

Brought Forward			R
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
3	Plasterboard / Timber ceiling including cornices, timber bandering, etc	m2	234
<u>REMOVAL OF EXISTING IRONMONGERY</u>			
<u>Taking out and removing ironmongery, lockers, blinds, etc.</u>			
4	Mortice lock and furniture from timber door and steel frame.	No	8
5	Towel rails including making good to plaster or tiling, etc	No	6
6	Toilet roll holder including making good to plaster or tiling, etc	No	12
7	Lockable steel storage cupboard, size approximately 900x450x900mm high, including making good to plaster	No	16
8	200 x 200mm Perspex sign board.	No	4
9	Timber benches fixed onto the wall, 600 x 900mm wide	m	6
10	Retractable clothes lines fixed to screen wall	No	2
<u>Hacking up/off and removing porcelain tile, rubber tiles, ceramic tiles etc floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>			
11	Ceramic wall tiles and plaster	m2	20
12	Ceramic floors tiles and screed	m2	250
<u>Removal of existing plaster</u>			
13	Hacking off and removing plaster from internal walls and columns	m2	200
14	External plaster from walls, columns and beams.	m2	125
Carried Forward			R
Section No. 2 Bill No. 1 Alterations LETLAMORENG			

Brought Forward			R
<u>Taking out and removing piping, sanitary fittings, etc including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
15	50mm Waste pipes to walls, in chases, etc.	m	110
16	110mm Waste pipes to walls, in chases, etc.	m	150
17	Water closet complete with service pipe, etc.	No	13
18	Vitreous china wash hand basin with mixer, service pipe, etc.	No	10
19	Urinal	No	1
20	Disconnect plumbing and electrical connections, break up/take out Washing Machines complete and cart away	No	4
21	Unblock existing 110mm diameter waste water pipe	No	100
22	Unblock existing 50mm diameter waste water pipe	No	56
23	Remove and replace pan connector	No	13
<u>CLEANING, ETC</u>			
<u>Preparation to existing vertical surfaces:</u>			
24	Wash plastered walls with sugar soap and let dry before painting (painting elsewhere)	m2	1 520
<u>SERVICING OF EXISTING METALWORK</u>			
<u>Servicing and maintaining existing windows</u>			
25	Overhaul, adjust and service steel windows not exceeding 2,5m ² with two opening sashes to ensure proper operation.	No	32
26	Extra on servicing existing steel window sash for supply and fitting new handle.	No	32
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 1			
Alterations			
LETLAMORENG			

-55-

Brought Forward			R
<u>Carting away of excavated material</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
<u>Filling</u>			
Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material			
<u>Testing:</u>			
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D			
<u>SITE CLEARANCE ETC</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	151
2	Stripping average 200mm thick layer of top soil and stockpiling on site	m2	151
<u>Weed killer (active ingredients Metalaclor 102,8 g/l, Terbitilasien 248,6 g/l and atrazine 248,6 g/l) mixed in the proportion of 100 ml weed killer to 100 l water and applied at a rate of 10 l/m²</u>			
3	Over site clearance etc.	m2	151
<u>EXCAVATION OTHER THAN BULK, ETC</u>			
<u>Excavation in earth not exceeding 2m deep:</u>			
4	Trenches and holes	m3	99
5	Trenches circular on plan	m3	5
Carried Forward			R
Section No. 2 Bill No. 2 Earthworks (Provisional) LETLAMORENG			

Brought Forward			R
<u>Extra over excavations in earth for excavation in:</u>			
6	Soft rock	m3	9
7	Hard rock	m3	6
<u>Extra over all excavations for carting away</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	48
<u>Keeping excavations free of water</u>			
9	Keeping excavations free of all water other than subterranean water		Item
<u>Risk of collapse of excavations, other than bulk:</u>			
10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	288
<u>EXCAVATION ETC</u>			
<u>FILLING ETC OTHER THAN BULK</u>			
<u>Earth filling supplied by the contractor, compacted to 93% Mod AASHTO density:</u>			
11	Backfilling to trenches, holes, etc	m3	59
<u>Earth filling G7 supplied by the contractor, compacted to 96% Mod AASHTO density:</u>			
12	Backfilling to trenches, holes, etc	m3	59
<u>Earth filling G5 supplied by the contractor, compacted to 96% Mod AASHTO density:</u>			
13	Under floors, steps, etc	m3	94
<u>Coarse river sand filling supplied by the contractor</u>			
14	Under floors etc	m3	94
Carried Forward			R
Section No. 2 Bill No. 2 Earthworks (Provisional) LETLAMORENG			

Brought Forward		
<u>Compaction of surfaces</u>		
15	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2 190
<u>Prescribed density tests on filling</u>		
16	"Modified AASHTO Density" test	No 9
<u>SOIL POISONING</u>		
<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>		
17	Soil insecticide (protection against termites) applied as specified under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming ground shall be treated with an Insecticides in accordance with SANS 10400F. Soil poisoning shall carry a written ten year guarantee and shall be applied by trained specialist pest control personnel.	m2 190
18	To bottoms and sides of trenches, etc	m2 346

Carried Forward to Summary of Section No. 2

Section No. 2
 Bill No. 2
 Earthworks (Provisional)
LETLAMORENG

R

-59-

Brought Forward			R
<p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p> <p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>20MPa/19mm concrete:</u></p>			
1	Surface blinding under footings and bases	m3	5
<p><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></p> <p><u>25MPa/19mm concrete:</u></p>			
2	Slabs including beams and inverted beams	m3	8
<p><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></p> <p><u>30MPa/19mm concrete:</u></p>			
3	Surface beds on waterproofing	m3	51
4	Strip footings	m3	23
<u>TEST CUBES</u>			
<u>Test cubes:</u>			
5	Making and testing set of three 150 x 150 x 150mm concrete strength test cub (Provisional)	Sets	12.0
Carried Forward			R
<p>Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement LETLAMORENG</p>			

Brought Forward			R
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
6	Surface beds, slabs, etc	m2	161
<u>UNDER FLOOR INSULATION</u>			
<u>High density 32-36kg/m³ rigid extruded polystyrene 100% closed cell insulation boarding 50mm thick x 600mm wide, with tongue and groove joints laid on plastic sheeting (elsewhere specified) under concrete surface beds:</u>			
7	On surface beds	m2	161
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)</u>			
<u>Rough formwork to sides</u>			
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	70
9	Beams	m2	11
<u>Rough formwork to soffits:</u>			
10	Slabs	m2	38
<u>MOVEMENT JOINTS ETC</u>			
<u>Two layers of 375 micron damp proof course in slip joints between horizontal concrete and brick surfaces including cement mortar bed:</u>			
11	Not exceeding 300mm wide	m	70
<u>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</u>			
12	10mm Joints not exceeding 300mm high to edges of surface beds	m	70
Carried Forward			R
Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement LETLAMORENG			

-62-

-63-

Brought Forward			R
<u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc <u>Samples</u> Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site <u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u> <u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar:</u>			
1	One brick walls	m2	25
2	270mm Cavity brick walls	m2	20
<u>BRICKWORK IN SUPERSTRUCTURE</u> <u>Brickwork of NFP bricks in class II mortar:</u>			
3	Half brick walls	m2	7
4	Half brick walls in Beamfilling	m2	5
5	One brick walls	m2	299
6	270mm Cavity brick walls	m2	66
7	270mm Cavity brick walls circular on plan	m2	20
<u>BRICKWORK SUNDRIES</u>			
Carried Forward			R
Section No. 2 Bill No. 4 Masonry LETLAMORENG			

Brought Forward			R
<u>2,5mm Galvanised brick reinforcement:</u>			
8	75mm Wide reinforcement built in horizontally	m	28
9	150mm Wide reinforcement built in horizontally	m	1 088
<u>Galvanised hoop iron cramps, ties, etc.:</u>			
10	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	49
<u>Brick-on-edge header course copings, sills, etc. to be plastered and painted</u>			
11	220mm wide brick-on-edge header course on top of one brick wall	m	32
<u>STONWORK</u>			
<u>STONE CLADDING ETC</u>			
Stone Cladding are as indicated on architect's drawings numbered ARCH/EX/01.			
<u>Natural Stone Cladding to Chimney Wall</u>			
12	400 x 40mm Thick in sandstone cladding (Horizon Riven Wall) exceeding on face	m2	150
<u>Prestressed fabricated concrete lintels including necessary temporary supports:</u>			
13	110 x 75mm Lintels in lengths not exceeding 3m	m	68
14	110 x 75mm Lintels in lengths exceeding 3.0m and not exceeding 4.5m	m	18
<u>FIBRE-CEMENT WINDOW SILLS</u>			
<u>Natural grey sills in single lengths bedded in 1:3 cement motar including metal fixing lugs etc.</u>			
15	10 x 150mm Wide sills set flat and slightly projecting	m	32
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 4			
Masonry			
LETLAMORENG			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing:</u>			
	Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B):</u>			
1	In walls	m2	26	
2	Under window cills	m2	10	
	<u>One layer 250 micron gunplas black polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self adhesive tape:</u>			
3	Under surface beds	m2	200	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	Carried Forward		R	
	Section No. 2 Bill No. 5 Waterproofing LETLAMORENG			

Brought Forward			R
	<u>Butel rubber "Torch On" waterproofing or spray sloped to water outlets to Engineers specifications</u>		
4	Concrete Roofs	m2	38
	<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>		
	<u>Clear silicone sealant:</u>		
5	In waterproofing joints between timber, porcelain or stainless steel fitting tops and walls	m2	4
	<u>Bitumen impregnated foam plastic joint sealing strips:</u>		
6	10 x 20mm In expansion joints	m	49
	<u>Two-part polyurethane sealing compound including backing cord, bond breaker, primer, etc.:</u>		
7	4 x 50mm In saw cut joints in floors	m	99
	<u>Two coats approved bond breaker to be painted on slab edges after 1st cast:</u>		
8	10 x 150mm In construction joints in floors	m	49
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 5			
Waterproofing			
LETLAMORENG			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS, ETC</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General:</u>			
	Grass in the Gauteng area suitable for thatch is the hyparrhenia species and is obtainable in lengths varying from 760 to 1020mm. The minimum density to which the above mentioned grass should be compacted is 30kg/m ² /150mm thickness. The fibre blanket usually consists of an interlay or an underlay of multi-layered fire retardent reinforced double-sided aluminium foil sheeting.			
	Where SANS 457-2 and SANS 0177-3 in the following heading is not applicable, refer to other suitable construction standards or provide full specifications			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>Dove Grey corrugated metal sheeting (colour plascon - blue aureole) roof covering and including all accessories</u>			
1	Roof covering with pitch not exceeding 45 degrees	m2	186	
2	Ridge cappings	m	17	
3	Extra over ridge capping for end pieces	No	4	
4	Extra over roof covering for valley gutter	m	18	
	Carried Forward		R	
	Section No. 2 Bill No. 6 Roof Coverings, etc LETLAMORENG			

Brought Forward			R
<u>ROOF AND WALL INSULATION</u>			
<u>Sisalation 410 housing grade glass fibre reinforced aluminium foil bonded insulation</u>			
5	Insulation laid taut over purlins (at approximately 1 000mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	186
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 6			
Roof Coverings, etc			
LETLAMORENG			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Reference to drawings and details:</u>			
	Where drawings and/ or details have been referred to in the description of items the tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Items described as "plugged" shall be deemed to include for screwing to fibre, plastic or metal plugs at not exceeding 600mm centres or shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	Descriptions are to be deemed to include for nails, screws, plugs, adhesives, holes, sin- kings, pelleting, etc			
	<u>Joinery:</u>			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
	Carried Forward		R	
	Section No. 2 Bill No. 7 Carpentry and Joinery LETLAMORENG			

Brought Forward

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

Decorative thermosetting plastic laminate covering:

Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish

Design of prefabricated roof trusses:

Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Principal Agent

Each roof truss shall have all its members accurately cut and closely butted together and rigidly fixed by CSIR approved patented galvanised metal spiked connectors, precision pressed on both sides of each intersection by an approved method, all in accordance with the manufacturers instructions

Trusses shall be designed by a registered professional engineer and in accordance with SABS 0160 and 0163, who shall, after erection, provide a certificate confirming that the design, manufacture, transportation, erection and bracing has been carried out in accordance with this specification

R

Carried Forward

Section No. 2
Bill No. 7
Carpentry and Joinery
LETLAMORENG

R

<p style="text-align: center;">Brought Forward</p> <p>The design shall include for all live loads, wind loads and for dead loads imposed by roof covering, purlins, ceilings, etc.</p> <p>Fully detailed shop drawings of all trusses, etc, indicating sizes, bracing, loading, etc, shall be submitted to the Principal Agent for approval prior to fabrication</p> <p>Unless specified erection instructions are given in writing, erection shall be carried out in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber Roof Trusses" published by the "Institute for Timber Construction and the Council for Scientific and Industrial Research" or as detailed by the designer</p> <p>Rates trusses shall include for the necessary rafters, temporary bracing, longitudinal and cross bracing, wall plates, eaves support beams, trimmed and splay cut ends as required and erected complete. However, rates shall exclude all fascias and barge boards, roof coverings, which are separately measured.</p> <p>The truss spacing indicated on Architectural drawings is an indication only. The actual truss spacing would be determined by the design of the roof construction</p> <p>The references given in the descriptions are to the drawings accompanying these bills of quantities for tender purposes which indicate the schematic truss layouts and cross sections</p> <p>Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences</p> <p><u>STRUCTURAL TIMBER WORK ETC</u></p> <p><u>BOLTED TIMBER ROOF TRUSS CONSTRUCTION, ETC.</u></p>	<p style="text-align: center;">R</p>
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Bill No. 7 Carpentry and Joinery LETLAMORENG</p>	<p style="text-align: center;">R</p>

Brought Forward			R
<u>Design, supply and installation of timber roof construction:</u>			
1	Roof construction to be double pitched roof with two hipped ends size 11.838 x 9.777m and 5.485m high overall and size 7.24 x 9.32 x 5.485m high overall, including all necessary accessories as per Engineers drawing No:	No	1
<u>Wrought softwood grade 6:</u>			
<u>Sawn softwood</u>			
2	38 x 114mm Wall plates	m	30
<u>EAVES , VERGES , ETC</u>			
<u>"Everite Flexit" pressed nutec-cement</u>			
3	12 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	63
<u>FRAMED DOORS ETC</u>			
<u>SOLID CORE FLUSH DOORS</u>			
<u>Solid meranti louvred timber doors with 3,2mm plain hardboard veneer on both sides: Refer to Architects door schedule Drawing no: Arch/</u>			
4	40mm Single door 813 x 2032mm high. (D04)	No	3
<u>SEMI SOLID CORE FLUSH DOORS</u>			
<u>Semi solid flush doors with commercial verneer and 6mm concealed hardwood edges around hung to steel frame: Refer to Architects door schedule Drawing no: Arch/PFD/01 Rev 0</u>			
5	40mm Single door 877 x 2100mm high.	No	1
6	40mm Single door 763 x 2100mm high. (D02)	No	3
<u>HOLLOW CORE FLUSH DOORS</u>			
Carried Forward			R
Section No. 2 Bill No. 7 Carpentry and Joinery LETLAMORENG			

Brought Forward			R
<u>Solid flush doors with commercial verneer and 6mm concealed hardwood edges around hung to steel frames: Refer to Architects door schedule Drawings no: Arch/PFD/01 Rev 0</u>			
7	40m Door 877 x 2100mm high. (D05)	No	3
<u>DOOR FRAMES ETC</u>			
<u>Wrot meranti frames size 86 x 68mm with two labours (no threshold) built into brickwork with plugged iron tiles: Refer to Architects door schedule Drawing No: Arch/PFD/01 Rev 0</u>			
8	877 x 2100mm high frames (D02A to D02C; D03A).	No	4
Carried Forward to Summary of Section No. 2			
Section No. 2 Bill No. 7 Carpentry and Joinery LETLAMORENG			R

-75-

<p style="text-align: center;">Brought Forward</p> <p>Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><u>Steel components:</u></p> <p>All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121</p> <p><u>Fixing:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere</p> <p><u>Fibre cement cornices:</u></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere</p> <p><u>CEILING TIMBERS, BEADS, INSULATION, ETC</u></p> <p><u>NAILED UP CEILINGS</u></p>	<p style="text-align: center;">R</p>
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring LETLAMORENG</p>	<p style="text-align: center;">R</p>

Brought Forward			R
<u>6mm thick Gypsum plasterboard with tape over joints with minimum 3mm and maximum 6mm thick coat gypsum skim plaster trowelled to smooth polished surface:</u>			
1	Ceilings including 38 x 38mm Sawn Softwood brandering at 400mm centres in one direction.	m2	363
2	Extra over ceiling for 650 x 650mm trap door with 38 x 38mm softwood frame and 38 x 114mm sawn softwood trimmers, fitted flush in opening with 19 x 50mm wrot softwood fillets all round	No	2
<u>CORNICES</u>			
<u>Gypsum plaster coved cornice:</u>			
3	75mm Gypsum plaster coved cornice	m	228
<u>INSULATION</u>			
<u>Non-combustible lightweight fibreglass insulation blanket of a density of not less than 10kg/m3 bonded with an inert thermo-setting:</u>			
4	100mm Insulation in blanket form lapped not less than 50mm along all edges and laid loose on top of brandering between roof timbers etc.	m2	363
Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 8 Ceilings, Partitions and Access Flooring LETLAMORENG			R

-78-

Brought Forward			R
<u>Finishes to ironmongery:</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.			
<u>IRONMONGERY TO DOORS, FRAMES, ETC.</u>			
<u>HINGES, BOLTS, ETC.</u>			
1	102 x 75 x 3mm Two ball bearing butt hinge (code HBCFM) - set of 3	Sets	28.0
2	Bathroom WC indicator (Red and White) and turnknob. (code DWC-005)	Sets	3.0
3	Bathroom WC indicator (Red and White) and turnknob for physically impaired. (code DWC-006)	Sets	2.0
4	Dust proof strike plate. (code DPS-SS-032)	No	5
5	153mm Manual flush bolt. (code DFB-SC-180)	No	1
6	305mm Manual flush bolt. (code DFB-SC-181)	No	1
7	Hinges and flush bolts by door frame Manufacturer	No	51
<u>CATCHES, CABIN HOOKS, ETC.</u>			
8	150mm CH on brass cabin hook (code 150)	No	3
9	Hat and coat hook with rubber buffer (code DHC-SS-031B)	No	3
Carried Forward			R
Section No. 2 Bill No. 9 Ironmongery LETLAMORENG			

Brought Forward				R
<u>HANDLES</u>				
10	"Code CB30 Cyl S.C Lever handle on plate with Cylinder cutout	Sets	19.0	
11	Lever handle on rose with cylinder escutcheons. (code CR001 Cyl S.S)	Sets	20.0	
12	"Code TH132 WC S.S Lever handle on rose with Bathroom/ WC furniture	Sets	11	
13	"Code DPH301B Straight tubular pull handle 325x25mm stainless steel with flange fixing or similar approved	No	4	
14	"Code DPP- 430-BL-SF 75 x 170 x 1.2mm thick Grade 430 Brushed stainless steel plate with cylinder cutout. Stainless steel plate to have 6 countersunk holes for screw fixing	No	3	
15	"Code DPP- 430-BL-SF 150 x 300 x 1.2mm thick Grade 430 Brushed stainless steel plate. Stainless steel plate to have 6 countersunk holes for screw fixing	No	3	
16	"Code DPH206 BTB" 400x30mm Stainless Steel Offset Tubular Pull Handle BTB (BTB Fixing Sets included) (Pull Handle complies with BS 8424. Grade 3 - Heavy Duty	Pairs	7.0	
17	"Code DHP-430-CR -SF, 150 x 300" DPH301C Pull handle BT on a 150 x 300 x 1.2mm thick Grade 430 stainless steel plate with cylinder cutout right . Stainless steel plate to have 6 countersunk holes for screw fixing	No	4	
18	"Code DHP-430-CL -SF, 150 x 300" DPH301C Pull handle BT on a 150 x 300 x 1.2mm thick Grade 430 stainless steel plate with cylinder cutout right . Stainless steel plate to have 6 countersunk holes for screw fixing	No	4	
19	"Code DFP-SS-026 Rectangular Flush Pull Handle or similar approved	No	34	
<u>LOCKS</u>				
Carried Forward				R
Section No. 2 Bill No. 9 Ironmongery LETLAMORENG				

Brought Forward			R
<u>"EN-SUITE" and grand master key operation:</u>			
20	"Code D02835 SS Narrow Stile Roller Dead Lock Operating with European Profile Cylinder. Case dimensions 174H x 52mm Forend dimensions 238 x 22mm backset 20mm Throw	No	20
21	D02735 SS bathroom stainless steel deadlock operting with European Profile Cylinder. Case dimensions (mm) 102H x 78D. Forend dimensions (mm) 155H x 22W. Backset 57mm.20mm Throe	No	1
22	"Code DCE-105 Stainless Narrow Stile Cylinder escutcheon	Pairs	21.0
23	"Code D035S SS Bathroom sash lock. Case dimensions 102mm H x 78mmD.Forend dimensions 155mmH x 22mmW. Backset 57mm	No	11
24	"Code D036S SS Cylinder Sash lock case dimensions 116.5 x 78mm Forend diemnsions 168 x 22mm backset 57mm centre 61mm	No	39
25	"Code D038R NP Rebate conversion kit for Euro Profile locks D036S, D037D.	No	1
26	"Code DPS-SS-032" Dust Proof Strike	No	5
27	"Code DDC206301 GMK - 31.5+31.5mm Europrofile Nickel Plated E-SP 5 Pin Double Cylinder - Grand Master Keyed	No	18
28	Bathroom deadlock (code D032D SS)	No	5
29	Rebated conversion euro-profile locks (code D038R NP)	No	1
30	63mm Five pin euro-profile double cylinder master keyed. (code DDC106601 MK)	No	37
31	65mm Euro-profile Bathroom / Privacy cylinder . (code DDC006501)	No	5
Carried Forward			R
Section No. 2 Bill No. 9 Ironmongery LETLAMORENG			

Brought Forward			R
<u>SUNDRIES</u>			
32	Floor mounted doorstop, Nickel Plated. (code: DDS-NP-018)	No 58	
33	M4 Patent Male / Female fixing screw pack	No 14	
<u>PUSH PLATES AND KICK PLATES</u>			
<u>1.2mm Thick anodised aluminium plates countersunk screwed along edges at not exceeding 200mm centres:</u>			
34	"Code DKP-430-SF-200" 200 x (width of door) x 1.2mm Grade 430 Brushed stainless steel kick plate. Stainless steel to have 10 countersunk holes for screw fixing	No 12	
<u>DOOR CLOSERS</u>			
<u>Door closers, etc.:</u>			
35	EN 2-4 Parallel arm DELAYED ACTION door closer, adjustable strength, hydraulic speed control, pull side fixing EN2 750-850, EN3 850-950, EN4 950-1100. (code TS73V)	No 2	
36	EN 3-4 Cam action arm non-hold-open door closer, adjustable strength, hydraulic speed control, pull side fixing EN3 850-950, EN4 950-1100. (code TS90-SL)	No 6	
<u>LETTERS, NAME PLATE, ETC</u>			
<u>Anodised aluminium signage fixed manufactures specification:</u>			
37	150 x 150 x 2mm plate with Male pictogram E10 (code: DSS-130 M).	No 4	
38	150 x 150 x 2mm plate with Female pictogram E11 (code: DSS-131 F).	No 3	
39	150 x 150 x 2mm plate with SHOWER sign (code: DSS-139 S).	No 2	
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 9			
Ironmongery			
LETLAMORENG			

-83-

Brought Forward

R

Fixing:

Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres

Doors and windows shall comply with AAAMSA design criteria. Glazing shall comply with SAGGA regulations. Glass shall be laminated performance glass as shown on the window schedules appended to these bills of quantities (as described in the headings to window descriptions). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules. Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed. For purpose made windows and doors, refer to drawings annexed to these bills of quantities

The following certificates shall be provided prior to commencement of site work:

1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product
2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively
3. A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process
4. A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked

Carried Forward

R

Section No. 2
Bill No. 10
Metalwork
LETLAMORENG

Brought Forward			R
5. A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years			
<u>GALVANISED PRESSED MILD STEEL DOOR FRAMES</u>			
<u>1,2mm Double rebated frames suitable for one brick walls</u>			
1	Frame for door 813 x 2032mm high (D01).	No	4
2	Frame for door 763 x 2032mm high (D02).	No	3
<u>ALUMINIUM DOOR FRAMES</u>			
<u>ALUMINIUM SLIDING FOLDING DOORS (CPAP WORK GROUP NO. 140)</u>			
<u>"Geze" or equally approved, powder coated aluminium sliding folding door to comply with minimum standards and specifications as per SABS regulatory legislation, glazing comply with SABS0400. Aluminium to be protected with low tack tape during construction until all units have been installed and trades completed, installed with rubber seals and brush strips as per approved shop drawings. Epoxy coated aluminium coupled unit side hung frame for coastal installation, hung on min. three stainless steel washered aluminium butts, frame to be sealed all round to full lengths of junction between plaster and frame with approved flexible sealant, all hinges, operating gear and locking/ handle mechanisms and fixing to brickwork or concrete</u>			
3	Purpose made sliding folding door overall size, 4675 x 2135mm high. (D01)	No	2
<u>ALUMINIUM WINDOWS, ETC.</u>			
Carried Forward			R
Section No. 2 Bill No. 10 Metalwork LETLAMORENG			

Brought Forward				R
<u>Powder coated purpose made window units, complete with subframes, ironmongery, glazing to comply with SABS 0400, sealing, including 20 x 10mm burglar bar sections fixed to frame during manufacture, over all opening sections and fixing to brickwork or concrete. All coating and burglar bars to be executed by manufacturer in accordance with SANS 1796 and with a guarantee of not less than 15 years to be provided against peeling and discolouration, all in accordance with Architect window schedule:</u>				
4	590 x 1490mm High window.	No	1	
5	1490 x 1190mm High window	No	2	
6	1800 x 1160mm High window	No	2	
7	1490 x 890mm High window	No	2	
8	3595 x 1200mm High window	No	1	
9	1800 x 600mm High window.	No	1	
10	4800 x 2000mm High window.	No	1	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Bill No. 10				
Metalwork				
LETLAMORENG				

-87-

Brought Forward

R

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width.

Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.

For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc. is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Cement plaster:

Unless otherwise described, cement plaster shall be taken to mean Class 1 cement plaster

Self - levelling screed:

To Contractor's expense should Grade 1 variance in F1 above not be achieved. Grind & prime existing surface with self-leveling Tal-Screed Master or equal & approved - thickness between 4 to 5mm.

Carried Forward

R

Section No. 2
Bill No. 11
Plastering
LETLAMORENG

Brought Forward			R
<u>SCREEDS</u>			
<u>Screeds wood floated, on concrete</u>			
1	40mm Thick on floors and landings	m2	213
<u>CEMENT RENDER</u>			
<u>Untinted 1:3 cement render steel trowelled, on concrete</u>			
2	12mm Thick on concrete soffits	m2	38
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
3	On walls	m2	370
4	On narrow widths	m2	3
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster wood floated, on brickwork</u>			
5	On walls	m2	279
6	On narrow widths	m2	1
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>			
7	3 x 57mm Flat section brass water bar cast into concrete	m	10
8	3 x 40mm Flat section brass dividing strips between differing floor finishes	m	10
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 11			
Plastering			
LETLAMORENG			

-90-

Brought Forward		
<u>330 x 330 x 4mm 'Johnson' or similar approved ceramic non-slip floor tiles (code: ST-652) fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof tile grout with minimum 5m expansion joints at perimeter:</u>		
2	On floors and landings	m2 163
3	On rises 150mm high of cut ceramic tile	m 78
<u>150 x 600 x 4mm 'Johnson' or similar approved porcelain non-slip floor tiles (code: 1NIRST0CRE600) fixed with adhesive to screed (screed elsewhere) and flush pointed with waterproof tile grout with minimum 5m expansion joints at perimeter:</u>		
4	On floors and landings	m2 345
5	On rises 150mm high of cut porcelain tile	m 75
<u>Sundries:</u>		
6	PVC quadrant treads in single lengths (Colour by Architect)	m 5

Carried Forward to Summary of Section No. 2

Section No. 2

Bill No. 12

Tiling

LETLAMORENG

R

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 13</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>PREAMBLES</u>			
The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>References to details and drawings</u>			
Where drawings and/ or details have been referred to Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.			
<u>Wire gratings:</u>			
Descriptions of gutter outlets etc. shall be deemed to include wire balloon gratings			
<u>Stormwater channels:</u>			
Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc., and disposal of surplus material on site			
<u>French drains:</u>			
Descriptions of French drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, approved geofabric filter blanket over stone, 300mm earth filling over and disposal of surplus material on site			
Carried Forward			R
Section No. 2 Bill No. 13 Plumbing and Drainage LETLAMORENG			

Brought Forward

R

Stainless steel basins, sinks, wash troughs, urinals, etc.:

Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc. shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc. shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Sealing of edges:

Outer edges of sinks, basins, baths, urinals, etc. are to be sealed against adjacent surfaces with approved silicone

uPVC pipes and fittings:

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

uPVC pressure pipes and fittings:

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

High density polyethylene (HDPE) pipes and fittings:

Pipes shall be type IV and of the class specified with Plasson or Alprene compression fittings

Carried Forward

R

Section No. 2
Bill No. 13
Plumbing and Drainage
LETLAMORENG

Brought Forward

R

Polycop polypropylene pipes:

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with Fast-fuse heat welded thermoplastic or where so described Polylock compression fittings. Pipes shall be firmly fixed to walls, etc. with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Copper pipes:

Pipes shall be hard drawn and half-hard Maksal pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-siphon pipes, capillary solder fittings and compression fittings shall be Cobra Watertech type. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc. to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Reducing fittings:

Where fittings have reducing ends or branches they are described as 'reducing' and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes:

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc., casting in, building in or suspending not exceeding 1m below suspension level

Carried Forward

R

Section No. 2
Bill No. 13
Plumbing and Drainage
LETLAMORENG

Brought Forward

R

Paper wrapping to pipes:

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework:

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)

Laying, backfilling, bedding, etc. of pipes:

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200L : Medium-pressure pipelines SABS 1200LD : Sewers SABS 1200LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding

General:

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc. are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc. shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

Carried Forward

R

Section No. 2
Bill No. 13
Plumbing and Drainage
LETLAMORENG

Brought Forward		R	
<p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc. and to steel pipes (adaptors for connections to copper pipes, etc. are given separately)</p> <p>Descriptions of WC pans, slop hoppers, etc. shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p> <p><u>SANITARY FITTINGS</u></p> <p><u>1,2mm Thick stainless steel Grade 304 (18/10)</u></p>			
1	<p>Stainless steel double bowl pot sink (model P1), 1.2mm thick with 150mm high integral splash back and 50mm x 10mm turn down, supported with a 30 x 30 x 3mm galvanised mild steel frame fitted on 41mm diameter round stainless steel detachable legs with adjustable foot pieces. Vermin proof bitumastic sound deadening applied at the bottom of bowls. Overall size 1850 x 650mm with a fabricated 760 x 460 x 380mm deep pressed bowl with 40mm waste outlet.</p>	No	1
<u>'Vaal' or equally approved:</u>			
2	510 x 405mm Hibiscus basin or equal approved white wash hand basin 510 x 405	No	10
3	'Klip' white vitreous china WC pan complete with lid and filaments and with a back inlet flush valve	No	14
Carried Forward		R	
<p>Section No. 2 Bill No. 13 Plumbing and Drainage LETLAMORENG</p>			

Brought Forward			R
4	WC paraplegic suite comprising wall hung back entry washdown pan (code 8.2137.0) size 530 x 355mm with double flap white plastic seat with anti bacterial coating (code 8.9337.0) and pan connector, complete with concealed cistern for wall hung WC (article No. 110.765.00.1), front actuated with dual flush actuator plate (article No. 115.778.KJ.1) in white enamel finish, including lid, fitments, low level flush pipe, netting for direct plastering, protection covers for service opening and flush pipe, water supply connection with angle stop valve, fixed with fastening materials inside solid wall from 90mm up to 120mm.	No	2
	<u>Stainless steel urinal:</u>		
5	Urinal to Architects specifications	No	1
	<u>"Frank" or similar approved:</u>		
6	Trendline Model 600 x 500 SEB Grade 304 18/10 polished stainless steel double end bowl drop on sink (Code: 1030008), overall size 1200 x 535mm with one 760 x 480 x 380mm deep bowl, fitted onto cupboard (elsewhere specified) including Spazi F/1 plumbing kit (Code: 1120008), (B-003).	No	1
	<u>WASTE UNIONS, ETC</u>		
7	32mm Basin waste union	No	10
8	38mm Bath or sink waste union	No	10
	<u>TRAPS ETC</u>		
9	32-40mm Rubber deep seal P or S trap	No	10
	<u>TAPS, VALVES, ETC</u>		
	<u>'Cobra Watertech' or equally approved:</u>		
10	"Pillar Tap" no:111, with star chromium plated handle, colour marks (hot/left & cold/right) with accessories to manufacturers specification	No	1
Carried Forward			R
Section No. 2 Bill No. 13 Plumbing and Drainage LETLAMORENG			

Brought Forward			R
11	"Pillar Tap" 15mm chrome plated elbow action raised nose with blue indicator for cold water	No 20	
12	15mm CP angle regulating valve	No 20	
13	15 x 350mm CP flexible connector	No 20	
<u>SANITARY PLUMBING</u>			
14	Budgetary allowance for all Sanitary Plumbing, fittings, etc to be expended in full or part as directed by the Principal Agent	Item	
<u>Sundries</u>			
15	Testing water pipe system	Item	
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 13			
Plumbing and Drainage			
LETLAMORENG			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Painting specification:</u>			
	All painting shall be done in accordance with SABS specifications unless otherwise described			
	<u>Colours:</u>			
	Unless otherwise described, all paintwork shall be deemed to have a colour value in excess of 7 on the Munsell system in accordance with SABS 1091			
	When staining timber, the resultant colour or shade must be to the complete satisfaction of the Principal Agent before any overcoating or preservative is applied			
	<u>ON INTERNAL PLASTER SURFACES</u>			
	<u>Prepare surfaces and remove all loose material, apply one coat alkali resistant primer and two coats PVA emulsion paint for interior use.</u>			
1	On walls	m2	308	
	<u>Prepare surfaces and remove all loose material, apply one coat alkali resistant primer and two coats PVA emulsion paint for interior use.</u>			
2	On concrete soffits	m2	38	
	Carried Forward			
	Section No. 2 Bill No. 14 Paintwork LETLAMORENG		R	

Brought Forward			R
<u>ON PLASTERBOARD</u>			
<u>Prepare, stop and apply two full coats semi-gloss PVA co-polymer paint to comply with SABS Specification No. 643</u>			
3	On Ceilings	m2	113
<u>ON FIBRE-CEMENT</u>			
<u>One coat primer and two coats exterior quality PVA emulsion paint</u>			
4	On fascias and bargeboards	m	63
<u>ON WOOD SURFACES</u>			
<u>One coat wood primer and two coats oil based paint to:</u>			
5	Internal doors	m2	19
6	Frames, etc.	m2	8
<u>One coat nova dark brown and two coats sanded lightly between coats to:</u>			
7	External doors.	m2	7
8	Frames	m2	3
<u>ON EXTERNAL PLASTER SURFACES</u>			
<u>Prepare surfaces and remove all loose material, apply one coat plaster primer and two coats super acrylic:</u>			
9	On walls	m2	279
<u>ON STEEL SURFACES</u>			
<u>One coat nova dark brown and two coats sanded lightly between coats to:</u>			
10	Frames	m2	7
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 14			
Paintwork			
LETLAMORENG			

-101-

-102-

-103-

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>GENERAL EARTHWORKS</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section			
	<u>Reference to drawings and details:</u>			
	Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.			
	<u>SITE CLEARANCE</u>			
1	Clear and grub	m2	2 500	
2	Stripping average 150mm thick layer stockpiling on site	m2	2 500	
	<u>EXCAVATION OTHER THAN BULK, ETC</u>			
3	Excavate to reduce levels for building platform for Water Tank	m3	450	
	<u>Keeping excavations free of water</u>			
4	Keeping excavations free of all water other than subterranean water	Item		
	Carried Forward		R	
	Section No. 3 Bill No. 1 Earthworks LETLAMORENG			

Brought Forward			R
<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	225
<u>Selected material supplied by the contractor and compacted to 98% Mod AASHTO maximum density</u>			
6	20mm Thick clean, dry, river sand layer treated with an approved weed killer at the rate of 50 grams per square metre, spread and levelled to receive paving blocks (paving blocks elsewhere measured)	m3	1 050
<u>Selected material supplied by the contractor and compacted to 95% Mod AASHTO maximum density</u>			
7	150mm Layer of G5 material, imported from commercial sources in fill material and compacted to 98% modified AASHTO density Under floors, steps, pavings, etc.	m3	500
<u>Prescribed density tests on filling</u>			
8	"Modified AASHTO Density" test	No	15
<u>SOIL POISONING</u>			
<u>Soil insecticide under a 10 year guarantee by firm of specialist</u>			
9	Soil insecticide (protection against termites) applied as specified under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming ground shall be treated with an Insecticides in accordance with SANS 10400F. Soil poisoning shall carry a written ten year guarantee and shall be applied by trained specialist pest control personnel.	m2	1 040
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 1			
Earthworks			
LETLAMORENG			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 2</u>			
	<u>ROADWORKS AND WALKWAYS, ETC.</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section			
	<u>Reference to drawings and details:</u>			
	Where drawings and/ or details have been referred to in the description of items the Tenderers should price for complete detail and specification on such details and/ or drawing. No claims relating to the omissions on the part of tenders will be entertained.			
	<u>EARTHWORKS (ROADS, SUBGRADE)</u>			
	<u>SUBBASE</u>			
1	Selected lower subgrade layer (G7 or better quality material) constructed from imported material, compacted to 93% MOD AASHTO	m3	900	
	<u>BASE</u>			
2	Stabilized base using G5 (150mm Layer of C4 material), imported from commercial sources and compacted to 95% modified AASHTO density	m3	900	
	Carried Forward			
	Section No. 3 Bill No. 2 Pavings, etc LETLAMORENG		R	

Brought Forward			R
3	CEM II 32,5 A-L cement	t	1.60
<u>KERBING</u>			
4	Precast concrete barrier kerbing to SABS 927 Fig. 7 in 1000mm lengths with 10mm wide butt joints filled in with (2:1) cement mortar and pointed with grooved half round joints and 10mm wide open butt joints at 5000mm centres including 15MPa/19mm mass concrete bedding size 50mm thick x 300mm wide, 15MPa/19mm mass concrete haunching size 225mm long x 120mm high x 150mm thick at joints, any necessary excavation, formwork, etc. and backfilling at back of kerbs, topsoiled and levelled to adjacent surfaces	m	105
5	Depressed kerbs to allow for stormwater outlets, and pedestrian walways	m	100
<u>SEGMENTED PAVINGS</u>			
6	80mm Thick 25MPa precast concrete interlocking block paving of 220 x 97mm grey paving blocks in accordance with SABS Specification 1058 and laid to falls in herring-bone pattern on sand layer (sand layer elsewhere measured) with joints filled in with sand and vibrated, including all straight cutting	m2	400
<u>One layer of 250 micron polyethylene sheeting laid:</u>			
7	Under surface beds, sides of ground beams, paving and aprons, etc.	m2	400
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 2			
Pavings, etc			
LETLAMORENG			

-108-

Brought Forward			R
<u>Importing of backfill material from:</u>			
4	a commercial sources	m3	50
5	borrow pit	m3	50
<u>EARTHWORKS (TRENCHES)</u>			
<u>Excavate in all materials, backfill, compact and dispose of surplus/unsuitable material for:</u>			
<u>a) For trench width of up to 850mm and for depths of:</u>			
6	i) depth not exceeding 1.0m	m	400
7	ii) depth exceeding 1,0m but not exceeding 2,0m	m	1
8	iii) depth exceeding 2,0m but not exceeding 3,0m	m	1
<u>b) Extra over items a), b) and c) for:</u>			
9	Boulder excavation	m3	10
10	Hard rock excavation	m3	50
<u>Excavation Ancillaries</u>			
<u>Make up deficiency in backfill material:</u>			
11	i) From other excavations on site	m3	150
12	ii) Import from approved commercial or off site source selected by contractor and approved by engineer.	m3	50
13	ii) Import from approved commercial or off site source selected by contractor and approved by engineer.	m3	10
14	Opening up and closing down of designated borrow pit		SUM
Carried Forward			R
Section No. 3 Bill No. 3 Water Pipelines LETLAMORENG			

-110-

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>SEWER RETICULATION</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary Preambles from relevant trades/Bills in this tender document are applicable to items in this section			
	<u>uPVC pipes and fittings:</u>			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings			
	<u>Vitrified clay pipes etc:</u>			
	Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly preformed or alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in semi-dry state immediately before pipes are laid.			
	<u>Excavations:</u>			
	No claim for rock excavation will be entertained after backfilling unless Contractor has timeously notified the quantity surveyor thereof prior to backfilling.			
	'Soft rock' and 'hard rock' shall be defined in 'Earthworks'			
	Carried Forward		R	
	Section No. 3 Bill No. 4 Sewer Reticulation LETLAMORENG			

Brought Forward			R
<u>Laying, backfilling, bedding, etc. of pipes:</u>			
Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled			
<u>Descriptions of pipes laid in trenches:</u>			
Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor			
<u>Descriptions of catch pits, junction boxes, manholes, etc.:</u>			
Descriptions of catch pits, junction boxes, manholes, etc, shall be deemed to include for, excavations in any material encountered, compaction, disposal of surplus of excavated to a dumping site to be located by the contractor, risk of collapse and keeping excavations free of water.			
<u>EARTHWORKS (TRENCHES)</u>			
<u>Excavate in all materials, backfill, compact and dispose of surplus/unsuitable material for:</u>			
a) For trench width of up to 850mm and for depths of:			
1	i) depth not exceeding 1,0m	m	400
<u>Extra over items a), b) and c) for:</u>			
2	Hard rock excavation	m3	5
<u>Excavation Ancillaries</u>			
<u>Make up deficiency in backfill material:</u>			
3	i) From other excavations on site	m3	25
Carried Forward			R
Section No. 3 Bill No. 4 Sewer Reticulation LETLAMORENG			

Brought Forward			R
4	ii) Import from approved commercial or off site source selected by contractor and approved by engineer.	m3	25
5	Compaction in road reserves (trenches crossing)	m3	100
<u>Extra over 110mm pipes laid in for 25MPa concrete encasing 310mm Diameter around pipe at maximum 45 degree angles including setting in 45 Degree junction, to maximum depth of 2000mm:</u>			
<u>SEWERS</u>			
<u>Supply, Lay, Joint, Bed and Test Pipeline</u>			
6	Upvc 110mm diameter Class 9	m	400
<u>Manholes</u>			
7	a) 1000mm dia pre-cast concrete manhole up to 1m depth	No	7
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 4			
Sewer Reticulation			
LETLAMORENG			

-114-

Brought Forward			R
<u>Fertilizing</u>			
5	Fertilizing grassed areas with 8:1:5 fertilizer spread at a rate of 0,1 kg/m2 and well irrigated after completion of planting	m2	855
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 5			
Landscaping			
LETLAMORENG			

-116-

R

-118-

Brought Forward				R
<u>Low-voltage cables:</u>				
600/1000V grade cables as specified with integral earth conductors, [Part of cable armouring] bearing SABS mark of approval.				
16mm ² 3-core PVC/PVC/SWA/PVC cable with 2 x 1.5mm ² comms cores				
5	Supply	m	300	
6	Install	m	300	
95mm ² 4core PVC/PVC/SWA/PVC cable				
7	Supply	m	100	
8	Install	m	100	
50 sq mm Bare Copper Earth wire				
9	Supply	m	100	
10	Install	m	100	
10mm ² 3-core PVC/PVC/SWA/PVC cable with 2 x 1.5mm ² comms cores				
11	Supply	m	150	
12	Install	m	150	
<u>CABLE TERMINATIONS AND JOINTS</u>				
All terminations and joints to be complete with lugs, ferrules, glands, shrouts, bolt, spring washers, nuts number tag and all material needed to complete.				
Indoor LV-Terminations Lugs for 16mm ² x 3C, Cu,PVC/PVC/SWA/PVC Cable				
13	Supply	No	12	
14	Install	No	12	
Carried Forward				R
Section No. 4 Bill No. 1 LV Reticulation LETLAMORENG				

Brought Forward				R
<u>AREA LIGHTING</u>				
SABS Approved 36W LED Post Top Light and Driver with day light switches including all Accessories for control of street lights Including Wiring				
15	Supply	No	40	
16	Install	No	40	
<u>EXCAVATIONS LV CABLE</u>				
<u>Excavations to be 0.6m x 0.45m x running meter all backfill material to be sift soil and compacted to 90%MOD for trenches and 95%MOD for road crossings, prove of test to be provided.</u>				
<u>Pickable soil, by hand and machine</u>				
17	Excavate, backfill and compact	m3	180	
Imported Material (soft soil) for backfill				
18	Supply	m3	18	
19	Install	m3	18	
<u>OTHER EQUIPMENT(SPECIFY)</u>				
Circuit breakers for miniature substations complete with tails				
250 A 3-phase 25 kA				
20	Supply	No	1	
21	Install	No	1	
<u>Sleeves</u>				
110mm Ø in Sleeves for cable entries and Roadways				
22	Supply	No	15	
23	Install	No	15	
Carried Forward				R
Section No. 4 Bill No. 1 LV Reticulation LETLAMORENG				

-121-

-122-

Brought Forward			R
Contractor to make allowance for casting in concrete, building/chasing into brickwork, drywall, surface mounted to any surface or ceiling void.			
<u>Galvanised Conduits</u>			
20mm Ø in ceiling voids and walls			
5	Material	m	200
6	Installation	m	200
<u>CONDUIT BOXES (WALL BOXES)</u>			
Flush-mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc. as specified.			
100 x 50 x 50mm box			
7	Material	No	400
8	Installation	No	400
100 x 50 blank covers			
9	Material	No	180
10	Installation	No	180
<u>LIGHT FITTINGS</u>			
Luminaires and accessories as specified in the specification. Allowance should be made for the following electrical equipment.			
Light fittings must comply with SABS Standards . These must be installed and mounted to round boxes in concrete, ceiling voids, roof trusses, including all fixings, brackets, supports, connectors, connections and lamps. Secured with tamper proof screws			
Type A: Non Dimmable Decorative non tilted 18W LED Downlights			
Carried Forward			R
Section No. 4 Bill No. 2 General Lighting LETLAMORENG			

Brought Forward				R
11	Material	No	10	
12	Installation	No	10	
	Type C: Dimmable 5W Ceiling Mounted LED Moisture Proof			
13	Material	No	36	
14	Installation	No	36	
	Type D: 18 W LED wall Mounted Outdoor Bulkhead Tamperproof			
15	Material	No	50	
16	Installation	No	50	
	Type H: 2X 36W LED ,1200X 200mm Luminaire Panel, Open Channel Surface			
17	Material	No	12	
18	Installation	No	12	
	Type N: 100 W Solar Floodlights			
19	Material	No	6	
20	Installation	No	6	
	Type O: 2X 18W LED ,1200X 200mm Surface Mounted, Complete with Drivers			
21	Material	No	40	
22	Installation	No	40	
	Photocell			
23	Material	No	12	
24	Installation	No	12	
Carried Forward				R
Section No. 4 Bill No. 2 General Lighting LETLAMORENG				

Brought Forward			R
<u>LIGHT SWITCHES</u>			
16 Amp 250V grade light switches complete with all necessary connections labelling, screws, coverplates, etc.			
One lever One-way light switch.			
25	Material	No	40
26	Installation	No	40
One lever Two-way light switch.			
27	Material	No	2
28	Installation	No	2
Carried Forward to Summary of Section No. 4			R
Section No. 4			
Bill No. 2			
General Lighting			
LETLAMORENG			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 3</u>			
	<u>SMALL POWER RETICULATION</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>SMALL POWER RETICULATION</u>			
	The supply, delivery, off-loading, installation, testing, commissioning and hand over in working condition as well as maintenance during the guarantee period of the following works.			
	<u>LOW VOLTAGE DISTRIBUTION BOARDS</u>			
	Supply, install and electrically connect the following distribution boards complete with frames interior wiring busbars equipment and anti-vandalism mechanisms as specified and indicated on the drawings. Distribution boards shall comply with all specifications. Bill items shall be priced as follows:			
	Supply shall include submission of shop drawings, manufacture, delivery, off-loading, storage on site of distribution boards.			
	Installation shall include physical assembly, positioning, electrical terminations of circuits and final commissioning of distribution boards but excludes cable terminations, measured elsewhere.			
	Distribution Board as per SLD			
1	Material	No	15	
2	Installation	No	15	
	Carried Forward		R	
	Section No. 4 Bill No. 3 Small Power LETLAMORENG			

Brought Forward			R
<u>CONDUCTORS [PVC insulated conductors]</u>			
600/1000V PVC insulated copper conductors into conduit, trunking or power skirting, including conductor identification labels, termination, lugs, bootlace ferrules, etc.			
2,5mm ² conductors			
3	Material	m	2 000
4	Installation	m	2 000
4mm ² conductors			
5	Material	m	800
6	Installation	m	800
2,5mm ² Earth Wire			
7	Material	m	1 000
8	Installation	m	1 000
4mm ² Earth Wire			
9	Material	m	400
10	Installation	m	400
<u>CONDUITS AND ACCESSORIES</u>			
SABS approved conduits, draw boxes, wall boxes, etc., complete with necessary bending, threading, jointing, short lengths, couplings, bends, tees, saddles, etc.			
Contractor to make allowance for casting in concrete, building/chasing into brickwork, drywall, surface mounted to any surface or ceiling void.			
<u>Galvanised Conduits</u>			
20mm Ø in ceiling voids and walls			
Carried Forward			R
Section No. 4 Bill No. 3 Small Power LETLAMORENG			

Brought Forward				R
11	Material	m	500	
12	Installation	m	500	
<u>CONDUIT BOXES (WALL BOXES)</u>				
Flush-mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc. as specified.				
100 x 100 x 50mm box				
13	Material	No	100	
14	Installation	No	100	
100 x 100 blank covers				
15	Material	No	80	
16	Installation	No	80	
<u>SWITCHED SOCKET OUTLETS</u>				
Switched socket outlets and related accessories as specified in the specification.				
16A SSO				
17	Material	No	10	
18	Installation	No	10	
16A DSO with Euro				
19	Material	No	40	
20	Installation	No	40	
16A DSO				
21	Material	No	20	
22	Installation	No	20	
Carried Forward				R
Section No. 4 Bill No. 3 Small Power LETLAMORENG				

-129-

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 4</u>			
	<u>EARTHING AND LIGHTING</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>EARTHING AND LIGHTING</u>			
	The supply, delivery, off-loading, installation, testing, commissioning and hand over in working condition as well as maintenance during the guarantee period of the following works.			
	<u>EARTHING and LIGHTNING PROTECTION SYSTEM & BONDING INSTALLATION</u>			
	<u>A SPECIALIST EARTHING & LIGHTNING PROTECTION AND BONDING SUB-CONTRACTOR MUST BE USED FOR THIS INSTALLATION</u>			
	Complete Design, Supply, Installation, Testing and Commissioning of a Compliant Earthing , Bonding and Lightning Protection System Installation , with Soil Resistivity Testing			
1	Material & Installation		SUM	
	<u>"AS BUILT" DRAWINGS</u>			
2	Complete set of marked up "As Built" drawings handed over to the Engineer.		SUM	
	<u>CERTIFICATE OF COMPLIANCE</u>			
3	Issuing of a Certificate of Compliance for the complete Electrical System handed over to the Engineer.		SUM	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	Bill No. 4			
	Earthing and Lighting Protection			
	LETLAMORENG			

SECTION SUMMARY - Section 4: Electrical Works				Amount
Bill No		Page No		
1	LV Reticulation	121		
2	General Lighting	125		
3	Small Power	129		
4	Earthing and Lighting Protection	130		
Carried to Final Summary			R	
Section No. 4 LETLAMORENG				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 1</u>			
	<u>HEATING, VENTILATION AND AIR CONDITIONING</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>HEATING, VENTILATION AND AIR CONDITIONING</u>			
	Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, providing to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings.			
	<u>Guardroom Office</u>			
	<u>Split Unit Air conditioning Units</u>			
	2.8 kW Cooling and 3.2 kW Heating Capacity Highwall Split Unit Inverter Windfree Type R410A.			
1	Supply	No	1	
2	Install	No	1	
	<u>Refrigerant Pipes R410A</u>			
	<u>Supply and Install insulated Refrigerant R410A Pipes</u>			
3	Diameter 6mm copper pipe	m	5	
	Carried Forward		R	
	Section No. 5 Bill No. 1 HVAC LETLAMORENG			

Brought Forward			R
4	Diameter 9mm copper pipe	m	5
5	Copper pipes Bends, Reducers etc.	No	3
6	Cable trays to suit the installation	m	3
7	Cantilever brackets for installation to suit the installation	No	1
<u>Condensate Drain Pipe</u>			
8	Diameter 25mm condensate drain pipe to the nearest drain	m	5
<u>Electrical Works</u>			
9	Electrical installation & wiring etc, complete for Split units including local starter/isolator switch	No	1
10	Wall Mounted Wired remote	No	1
11	15mm Electrical conduit for the wired	No	5
<u>Staff Quarters</u>			
<u>Split Unit Air conditioning Units</u>			
2.8 kW Cooling and 3.2 kW Heating Capacity Highwall Split Unit Inverter Windfree Type R410A.			
12	Supply	No	6
13	Install	No	6
3.6 kW Cooling and 4.0 kW Heating Capacity Highwall Split Unit Inverter Windfree Type R410A.			
14	Supply	No	1
15	Install	No	1
<u>Refrigerant Pipes R410A</u>			
Carried Forward			R
Section No. 5 Bill No. 1 HVAC LETLAMORENG			

Brought Forward				R
<u>Supply and Install insulated Refrigerant R410A Pipes</u>				
16	Diameter 9.52mm copper pipe	m	60	
17	Diameter 15.8mm copper pipe	m	60	
18	Copper pipes Bends, Reducers etc.	No	20	
19	Cable trays to suit the installation	m	20	
20	Cantilever brackets for installation to suit the installation	No	7	
<u>Condensate Drain Pipe</u>				
21	Diameter 25mm condensate drain pipe to the nearest drain	m	30	
<u>Electrical Works</u>				
22	Electrical installation & wiring etc, complete for Split units including local starter/isolator switch	No	7	
<u>Ticketing Office</u>				
2.8 kW Cooling and 3.2 kW Heating Capacity Highwall Split Unit Inverter Windfree Type R410A.				
23	Supply	No	1	
24	Install	No	1	
<u>Refrigerant Pipes R410A</u>				
<u>Supply and Install insulated Refrigerant R410A Pipes</u>				
25	Diameter 6mm copper pipe	m	5	
26	Diameter 9mm copper pipe	m	5	
27	Copper pipes Bends, Reducers etc.	No	3	
28	Cable trays to suit the installation	m	3	
Carried Forward				R
Section No. 5 Bill No. 1 HVAC LETLAMORENG				

Brought Forward			R
29	Cantilever brackets for installation to suit the installation	No	1
<u>Condensate Drain Pipe</u>			
30	Diameter 25mm condensate drain pipe to the nearest drain	m	5
<u>Electrical Works</u>			
31	Electrical installation & wiring etc, complete for Split units including local starter/isolator switch	No	1
32	Wall Mounted Wired remote	No	1
33	15mm Electrical conduit for the wired	m	5
<u>Project Engineering Management and Quality Control</u>			
34	Testing, balancing, commissioning and handover of air conditioning units and fans including compilation of submitted to the Engineer for approval.		Item
35	Operation and Maintenance Instruction Manuals	Sets	4.0
36	User Training	Hrs	4.00
37	Sets of "as built" drawings "including 1 cd"	No	6
38	12 Months free maintenance		Item
39	Any other item necessary that might have been omitted that might be necessary for completion of installation (please specify).		Item
40	Provide OSH certificate for compliance		Item
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 1			
HVAC			
LETLAMORENG			

Item No			Quantity	Rate	Amount
	<u>SECTION NO. 5</u>				
	<u>BILL NO. 2</u>				
	<u>FIRE PROTECTION</u>				
	<u>PREAMBLES</u>				
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013				
	<u>Hand Held Fire Extinguishers</u>				
1	4.5kg of Dry Chemical Powder fire extinguishers c/w red fire extinguisher cabinet cover.	No	14		
2	5.0 kg CO2 Fire Extinguisher	No	1		
3	1.8 x 1.8m Fire Blanket	No	1		
	<u>Fire Signage</u>				
	<u>Photoluminescent signs on Steel Frame, SABS Approved</u>				
4	Hosereel/Ext signs F4 190 x 578	No	14		
5	Extinguisher signs F13 190 x 384	No	14		
6	Exit signage	No	14		
	<u>Project Engineering Management and Quality Control</u>				
7	Testing, balancing, commissioning and handover of air conditioning units and fans including compilation of submitted to the Engineer for approval.		Item		
8	Operation and Maintenance Instruction Manuals	Sets	4.0		
9	User Training	Hrs	4.00		
	Carried Forward				
	Section No. 5 Bill No. 2 Fire Protection LETLAMORENG				
				R	

Brought Forward			R
10	Sets of "as built" drawings "including 1 cd"	No	6
11	12 Months free maintenance		Item
12	Any other item necessary that might have been omitted that might be necessary for completion of installation (please specify).		Item
13	Provide OSH certificate for compliance		Item
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 2			
Fire Protection			
LETLAMORENG			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 3</u>			
	<u>HOT & COLD WATER INSTALLATION</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>HOT & COLD WATER INSTALLATION</u>			
	Note: Prices shall include Supply and Installation			
	<u>Cold Water Supply</u>			
	<u>Half hard drawn copper pipes Class 2 in accordance with SABS 460 with capillary type soldered joints made in accordance with manufactures written instructions, coupling in running light.</u>			
1	42mm dia. pipe	m	50	
2	35mm dia. pipe	m	100	
3	28mm dia. pipe	m	100	
4	22mm dia. pipe	m	100	
5	15mm dia. pipe	m	150	
	<u>Extra over 42mm dia. pipe capillary soldered fittings.</u>			
6	42mm dia. tee	No	20	
7	42 x 22 x 28mm dia. Tee	No	20	
8	42 x 15 x 28mm dia. Tee	No	20	
9	42mm dia. bend	No	20	
	Carried Forward			
	Section No. 5			
	Bill No. 3			
	Wet Services			
	LETLAMORENG			

R

Brought Forward				R
10	42 x 22mm dia. reducer straight coupler	No	20	
11	42 x 15mm dia. reducer straight coupler	No	20	
<u>Extra over 35mm dia. pipe capillary soldered fittings.</u>				
12	35mm dia. tee	No	20	
13	35 x 22 x 28mm dia. Tee	No	20	
14	35 x 15 x 28mm dia. Tee	No	20	
15	35mm dia. bend	No	20	
16	35 x 22mm dia. reducer straight coupler	No	20	
17	35 x 15mm dia. reducer straight coupler	No	20	
<u>Extra over 28mm dia. pipe capillary soldered fittings.</u>				
18	28mm dia. tee	No	20	
19	28 x 22 x 28mm dia. Tee	No	20	
20	28 x 15 x 28mm dia. Tee	No	20	
21	28mm dia. bend	No	20	
22	28 x 22mm dia. reducer straight coupler	No	20	
23	28 x 15mm dia. reducer straight coupler	No	20	
<u>Extra over 22mm dia. pipe capillary soldered fittings.</u>				
24	22mm dia. tee	No	20	
25	22 x 15 x 22mm dia. tee	No	20	
26	22mm dia. bend	No	20	
27	22 x 15mm dia. reducer straight coupler	No	20	
28	22mm dia. copper adapter	No	20	
Carried Forward				R
Section No. 5 Bill No. 3 Wet Services LETLAMORENG				

Brought Forward				R
<u>Bends</u>				
29	15mm dia. bend	No	52	
30	15mm dia. tee	No	12	
<u>Brass fittings</u>				
31	28mm dia. Non return Valve	No	1	
32	28mm dia. Pressure Reducing valve c/w Isolating Valve	No	1	
33	28mm dia. Isolating Stop Cocks	No	22	
34	22mm dia. Isolating Stop Cocks	No	6	
35	15mm dia. Isolating Stop Cocks	No	12	
36	28mm dia. gate valve c/w threads, flanges etc to enable complete connection	No	1	
37	22mm dia. gate valve c/w threads, flanges etc to enable complete connection	No	4	
38	15mm dia. gate valve c/w threads, flanges etc to enable complete connection	No	4	
<u>HOT WATER GENERATION(Supply & Install)</u>				
<u>Supply and Install Complete with mounting material and accessories direct electrical geyser systems, Material to be high pressure/temperature stainless steel grade 441 1.5mm, Insulation to be high density polyurethane, external casing to be aluminum, External bends UV protected fibre reinforced with a working pressure of 400kpa</u>				
<u>Executive Chalet</u>				
39	Domestic Electrical 150Litres Geyser (c/w 2kw back up element) complies with SANS 1307, and SABS 400kPa approved that can be used as a close coupled system or split system.	No	6	
Carried Forward				R
Section No. 5 Bill No. 3 Wet Services LETLAMORENG				

Brought Forward			R
40	Heat pump (5.1kW) a, controls, thermal insulation, electrical and piping connections, compressors, motor control panels all inclusive as per mechanical engineer's specification	No	6
<u>Twin Bed Suites</u>			
41	Domestic Electrical 150Litres Geyser (c/w 2kw back up element) complies with SANS 1307, and SABS 400kPa approved that can be used as a close coupled system or split system.	No	5
42	Heat pump (5.1kW) a, controls, thermal insulation, electrical and piping connections, compressors, motor control panels all inclusive as per mechanical engineer's specification	No	5
<u>Staff Quarters</u>			
43	Domestic Electrical 150Litres Geyser (c/w 2kw back up element) complies with SANS 1307, and SABS 400kPa approved that can be used as a close coupled system or split system.	No	3
<u>Kiosk</u>			
44	Domestic Electrical 50Litres Geyser (c/w 2kw back up element) complies with SANS 1307, and SABS 400kPa approved that can be used as a close coupled system or split system.	No	1
<u>Drainage</u>			
<u>uPVC Pipes and fittings with butt welded joints, electro weld sockets and bracketing, all as necessary, as per uPVC - Pipes and fittings for Sanitary Drainage Installations and in accordance with the details, specifications and recommendations for uPVC Applications.</u>			
45	50 mm Pipes	m	150
46	110 mm Pipes	m	120
Carried Forward			R
Section No. 5 Bill No. 3 Wet Services LETLAMORENG			

Brought Forward				R
47	110 mm Reducer to 50mm	No	40	
48	50 mm 45° Bends	No	96	
49	110 mm 45° Bends	No	26	
50	50 mm 90° Bends	No	15	
51	110 mm 90° Bends	No	10	
52	50 mm Y-branch fitting	No	10	
53	110 mm Y-branch fitting	No	8	
54	50 mm Double Y-branch fitting	No	6	
55	110 mm Double Y-branch fitting	No	6	
56	50 mm T-branch fitting	No	5	
57	110 mm T-branch fitting	No	6	
58	110 mm (90°) Access pipe with round screwed cover	No	10	
59	50 mm (90°) Access pipe with round screwed cover	No	12	
60	110 mm Complete stop end with screwed end	No	29	
61	50 mm Complete stop end with screwed end	No	28	
62	50 mm Expansion socket with anchor	No	10	
63	110 mm Expansion socket with anchor	No	34	
64	50 mm Two way air relief vent	No	15	
65	110 mm Two way air relief vent	No	18	
Carried Forward to Summary of Section No. 5				R
Section No. 5				
Bill No. 3				
Wet Services				
LETLAMORENG				

Section No. 5
Bill No. 4
Laundry Equipment
LETLAMORENG

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 5</u>			
	<u>KITCHEN EQUIPMENT INSTALLATIONS</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371B) July 2013			
	<u>KITCHEN EQUIPMENT</u>			
	<u>Supply, deliver, installation, testing, commissioning and handing over in, working order and maintenance during guarantee period.</u>			
	Cold Room c/w panels and doors (Area 9m2)			
1	Supply	No	1	
2	Install	No	1	
	<u>KITCHEN EQUIPMENT</u>			
3	1800 x 600 x 1590 Stainless steel wire rack	No	10	
4	4 Tier Galvanised Storage Shelving 1200mmx500	No	10	
5	Commercial Kitchen freezern Double Door S/Steel Capacity 1200Lt	No	1	
6	Floor Standing Chip Fryer 2x20L. 24kW Electrical 380V, 3Ph &N c/w Inserts	No	1	
7	Four burner Industrial gas stove range complete with oven. Gas Rating 118 000 kJ/hr	No	1	
8	Four burner Domestic gas stove range complete with oven. Gas Rating 118 000 kJ/hr	No	4	
9	Heavy duty solid top griller	No	1	
	Carried Forward			
	Section No. 5 Bill No. 5 Kitchen Equipment LETLAMORENG		R	

		Brought Forward		R
10	250L Fridge/freezer	No	4	
11	Allow for Bar Equipment	No	1	
Carried Forward to Summary of Section No. 5				R
Section No. 5				
Bill No. 5				
Kitchen Equipment				
LETLAMORENG				

SECTION SUMMARY - Section 5: Mechanical Works		Page No			Amount
Bill No					
1	HVAC	135			
2	Fire Protection	137			
3	Wet Services	142			
4	Laundry Equipment	143			
5	Kitchen Equipment	145			
Carried to Final Summary					
Section No. 5					
LETLAMORENG					

Item No	Quantity	Rate	Amount
<u>SECTION NO. 5</u>			
<u>BILL NO. 1</u>			
<u>PROVISIONAL SUMS</u>			
<u>PREAMBLES</u>			
<p>The Tenderer is referred to the relevant Clauses in the separate documents General Specification (PW 371-A) July 2013 and Particular Specification (PW 371-B) July 2013 which are both obtainable from Public Works website www.publicworks.gov.za/consultantguidelines</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General:</u>			
<p>Unless otherwise described, all prime cost amounts and provisional sums shall be nett. No provision for 5 percent cash discount shall be included for the main contractor.</p>			
<p>Prime cost amounts and provisional sums exclude value added tax.</p>			
<p>In the event of a prime cost amount or provisional sum being omitted the items "Allow for profit"... and "allow for attendance" applicable, shall be omitted together with the prime cost amount or provisional sum and no claim whatsoever will be entertained in this regard.</p>			
<p>The principal agent shall be entitled to nominate or select any further specialist and other to execute work or supply and fix any goods whether or not a provisional sum is included in the bills of quantities and such specialists and other will then be deemed to be "selected subcontractors" as the case may be.</p>			
<p>Where profit stated, the contractor may allow for profit if required</p>			
Carried Forward			R
Section No. 6 Bill No. 1 Provisional Sums LETLAMORENG			

Brought Forward

R

Attendance upon nominated/selected subcontractors:

The item "Allow for attendance...." which follows each provisional sum for nominated/selected subcontractors work, shall be deemed to cover all the contractors costs incurred in providing free of charge to the subcontractor the service as set out in the relevant clause in the preliminaries

Taking delivery:

Taking delivery of goods or articles by the contractor on site shall mean getting in, unpacking, checking that the quantity is correct and that the goods are complete and undamaged, submitting a report thereof to the interested parties and issuing vouchers for the receipt of such goods. The contractor is to store the goods and will be held responsible for the safety thereof and indemnify the employer against any damage or loss which may occur.

Works executed under a separate/direct contract:

The contractor shall permit access to the site and to the places where the work is to be carried out and provide every facility to enable the specialist to carry out his work in a workmanlike manner and in proper order and sequence.

Co-ordination:

The contractor shall obtain all necessary particulars of the subcontractors work timeously and the contractor will be responsible for the programming and co-ordination of the works

Number of nominated/selected subcontractors:

The contractors attention is drawn to the fact that the indicated individual provisional sums may consist of numerous specialist, all of which will become nominated/selected subcontractors. The contractor must therefore allow in his tender for any cost implication this may bring about, as no claims in this regard will be entertained.

Carried Forward

R

Section No. 6
Bill No. 1
Provisional Sums
LETLAMORENG

Brought Forward		R	
<u>PROVISIONAL SUMS FOR NOMINATED/SELECTED SUB-CONTRACTORS</u>			
<u>Loose Furniture:</u>			
1	Provide the sum of R360 000 (Three Hundred And Sixty Thousand Rands) (To be determined by scope) for loose furniture supplied and transported complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	360 000.00
2	Add for profit upon above, if required.	%	
3	Attend upon the above if required.	%	
<u>Signage</u>			
4	Provide the sum of R 175 000.00 (One Hundred and Seventy-Five Thousand Rand) (To be determined by scope) for Signage constructed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	175 000.00
5	Add for profit upon above, if required.	%	
6	Attend upon the above if required.	%	
<u>Boom Gate:</u>			
7	Provide the sum of R 260 000.00 (Two Hundred and Sixty Thousand Hundred Rand) (To be determined by scope) for Boom Gate constructed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	260 000.00
8	Add for profit upon above, if required.	%	
9	Attend upon the above if required.	%	
Carried Forward		R	
Section No. 6 Bill No. 1 Provisional Sums LETLAMORENG			

Brought Forward		R	
<u>Picnic Sites Landscaping</u>			
10	Provide the sum of R 500 000.00 (Five Hundred and Fifty Thousand Rand) for Landscaping (including picnic sites). Installation to be used at the discretion of the Principal Agent and deducted in whole or in part if not required	Item	500 000.00
11	Add for profit upon above, if required.	%	
12	Attend upon the above if required.	%	
<u>Concrete Benches x 8:</u>			
13	Provide the sum of R 200 000.00 (Two Hundred Thousand Rand) (To be determined by scope) for Concrete benches x 8, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	200 000.00
14	Add for profit upon above, if required.	%	
15	Attend upon the above if required.	%	
<u>Braai Facilities</u>			
16	Provide the sum of R 170 000.00 (One Hundred and Seventy Thousand Rand) (To be determined by scope) for Braai Facilities constructed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	170 000.00
17	Add for profit upon above, if required.	%	
18	Attend upon the above if required.	%	
<u>Community Liaison Officer</u>			
19	Provide the sum of R 105 000.00 (One Hundred and Five Thousand Rand) for Community Liaison Officer with stipend of R6 500.00 each month to be employed by the main contractor for the duration of the contract, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required	Item	105 000.00
20	Add for profit upon above, if required.	%	
Carried Forward		R	
Section No. 6 Bill No. 1 Provisional Sums LETLAMORENG			

Brought Forward		R	
21	Attend upon the above if required.	%	
<u>Borehole (Include Engineering Fees)</u>			
22	Provide the sum of R 450 000.00 (Four Hundred and Fifty Thousand Rand) (To be determined by scope) for water reticulation system complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required	Item	450 000.00
23	Add for profit upon above, if required.	%	
24	Attend upon the above if required.	%	
<u>Kiddies Pool Slides</u>			
25	Provide the sum of R 976 580.00 (Nine Hundred and Seventy-Six Thousand Five Hundred and Eighty Rand) (To be determined by scope) for Kiddies Pool Slides constructed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	976 580.00
26	Add for profit upon above, if required.	%	
27	Attend upon the above if required.	%	
<u>Kiddies Play Area (i.e.Jungle gym, swings, trampoline, Jumping Castle, etc.)</u>			
28	Provide the sum of R 226 608.00 (Two Hundred and Twenty-Six Thousand Six Hundred and Eight Rand) (To be determined by scope) for Play Area (i.e.Jungle gym, swings, trampoline, Jumping Castle, etc.) constructed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	226 608.00
29	Add for profit upon above, if required.	%	
30	Attend upon the above if required.	%	
Carried Forward		R	
Section No. 6 Bill No. 1 Provisional Sums LETLAMORENG			

Brought Forward		R	
<u>Go Karts:</u>			
31	Provide the sum of R 150 000.00 (One Hundred and Fifty Thousand Rand) (To be determined by scope) for Gor Karts x 10, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	150 000.00
32	Add for profit upon above, if required.	%	
33	Attend upon the above if required.	%	
<u>Trampoline:</u>			
34	Provide the sum of R 22 000.00 (Twenty-Two Hundred Thousand Rand) (To be determined by scope) for Trampoline x 4 constructed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	22 000.00
35	Add for profit upon above, if required.	%	
36	Attend upon the above if required.	%	
<u>Adults Play Area (Target shooting, Bubble soccer, Obstacle course):</u>			
37	Provide the sum of R350 000.00 (Three Hundred Fifty Thousand Rands) (To be determined by scope) for IAdults Play Area complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	350 000.00
38	Add for profit upon above, if required.	%	
39	Attend upon the above if required.	%	
<u>Bar:</u>			
40	Provide the sum of R 290 000.00 (Two Hundred And Ninety Thousand Rands) (To be determined by scope) for bar complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	290 000.00
Carried Forward		R	
Section No. 6 Bill No. 1 Provisional Sums LETLAMORENG			

Brought Forward		R	
41	Add for profit upon above, if required.	%	
42	Attend upon the above if required.	%	
<u>Adults Swimming pool</u>			
43	Provide the sum of R 952 000.00 (Nine Hundred And Fifty-Two Thousand Rand) for Adults / Children Swimming pool. Installation to be used at the discretion of the Principal Agent and deducted in whole or in part if not required	Item	952 000.00
44	Add for profit upon above, if required.	%	
45	Attend upon the above if required.	%	
<u>Asbestos Removal:</u>			
46	Provide the sum of R 514 500.00 (Five Hundred and Fourteen Thousand Five Hundred Rand) (To be determined by scope) for Asbestos Removal constructed complete, to be used at the discretion of the Principal Agent and deducted in whole or in part if not required.	Item	514 500.00
47	Add for profit upon above, if required.	%	
48	Attend upon the above if required.	%	
<u>Environmental Management Programmes and Environmental Impact Assessment.</u>			
49	Provide the sum of R 240 000.00 (Two Hundred and Forty Thousand Rand) for Environmental Management Programmes and Environmental Impact Assessment to be used at the discretion of the Principal Agent and deducted in whole or in part if not required	Item	240 000.00
50	Add for profit upon above, if required.	%	
51	Attend upon the above if required.	%	
Carried Forward		R	
Section No. 6 Bill No. 1 Provisional Sums LETLAMORENG			

Brought Forward		R	
<u>Provide Experiential Work Opportunities and Training Towards Trade Competencies for Designated Persons</u>			
52	Provide the sum of R 200 000.00 (Two Hundred Thousand Rand) for training allowance paid to approved training providers in terms of the Expanded Public Works Program (EPWP)	Item	200 000.00
53	Add for profit upon above, if required.	%	
54	Attend upon the above if required.	%	
Carried to Final Summary		R	
Section No. 6 Bill No. 1 Provisional Sums LETLAMORENG			

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Section 1: Preliminaries	48	
2	Section 2: Building Works	103	
3	Section 3: External Works	117	
4	Section 4: Electrical Works	131	
5	Section 5: Mechanical Works	146	
6	Section 6: Provisional Sums	154	
SUB TOTAL		R	
<u>CONTINGENCIES</u>		Item	
Allow the Amount of R 1 100 000.00 (One Million One Hundred Thousand Rands) for contingencies, to be used by the Employer in terms of Clause 17 of the Principal Building Agreement.		1 100 000.00	
SUB TOTAL BEFORE VAT		R	
<u>ADD: VALUE ADDED TAX</u>		R	
Value Added Tax (15%)		R	
TENDER SUM CARRIED FORWARD TO FORM OF OFFER AND ACCEPTANCE		R	
Carried to Form of Tender		R	
LETLAMORENG			