

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 1
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 1</u> <u>PRELIMINARIES AND GENERAL</u> <u>MEANING OF TERMS "TENDER / TENDERER"</u> 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" <u>PRELIMINARIES</u> The JBCC Preliminaries, May 2018 edition for use with the JBCC Principal Building Agreement Edition 6.2 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable" <u>PRICING OF PRELIMINARIES</u> Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related the spaces provided under each item Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities <u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u> <u>DEFINITIONS AND INTERPRETATION</u> 1 A1.0 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 a 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				
BILL No. 1	BILL No. 1 PRELIMINARIES AND GENERAL carried to collection				

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		Clause 1.1 Definition of "Fraudulent Practice" is added: "FRAUDULENT PRACTICE" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non- competitive levels and to deprive the tenderer of the benefits of free and open competition Clause 1.1 Definition of "Interest" is amended by replacing it with "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 No clause Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
2	A2.0	LAW, REGULATIONS AND NOTICES Clause 2.0 Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
3	A3.0	OFFER AND ACCEPTANCE Clause 3.0 Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
4	A4.0	CESSION AND ASSIGNMENT Clause 4.0 Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
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5	A5.0	DOCUMENTS Clause 5.0 Clause 5.7 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 Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
6	A6.0	EMPLOYER'S AGENTS Clause 6.0 Clause 6.1 is amended by the addition of the following: This clause is amended to include clauses 26.7 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer sign all documents Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
7	A7.0	DESIGN RESPONSIBILITY Clause 7.0 Clause 7.3 is amended by replacing it with the following: No clause Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
		<u>INSURANCES AND SECURITIES</u>				
8	A8.0	WORKS RISK Clause 8.0 Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
9	A9.0	INDEMNITIES Clause 9.0 Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
10	A10.0	INSURANCES Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.11 Damage to the Works (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				
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	(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 materials paid for by the employer that is the result of the excepted risks as set out in 10.12				
	(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 27.0 hereof				
10.12		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 negligence 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 negligence of any person for whose actions the employer is legally liable				
	(c)	The contractor shall, upon receiving a contract instruction from the principal agent , cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor				
	(d)	The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion				
	(e)	Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed				
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	(f)	The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works				
	10.13	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:				
	10.13.1	Damage to the works The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary When so instructed to do so by the principal agent , the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works , at the contractor's own costs				
	10.13.2	Injury to persons or loss of or damage to property The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of, or caused by a catastrophic ground movement as mentioned above The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site , whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract				
	10.13.3	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 Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
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ITEM NO	PAYMENT REFERS TO	DESCRIPTION				AMOUNT
11	A11.0	SECURITIES				
		Clause 11.0				
		Clauses 11.1 - 11.10 are amended by replacing them with the following				
	11.1	In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)				
	11.1.1	The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms				
	11.1.2	The employer shall be entitled to recover expense and loss from the payment reduction in terms of 27.0 provided that the employer complies with the provisions of 27.4 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				
	11.2	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 11.3, 11.4, 11.5, 14.6, or 11.7 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 11.7 shall be deemed to have been selected				
	11.3	Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:				
	11.3.1	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				
	11.3.2	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 percent (3%) of the contract value (excluding VAT), and refund the balance to the contractor				
	11.3.3	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				
	11.3.4	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				
	11.3.5	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				
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11.3.6	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				
11.4	Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:				
11.4.1	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				
	Clause 11.4.1 is deemed to be amended by the addition of the following sentence;				
	No interest will be paid on such amounts withheld				
11.4.2	The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender				
11.4.3	The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring				
11.4.4	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				
11.5	Where security as a fixed construction guarantee of five percent (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:				
11.5.1	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)				
11.5.2	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				
11.5.3	The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring				
11.5.4	The payment reduction of the value certified in a payment certificate shall be in terms of clause 25.				
11.5.5	Where the employer has a right of recovery against the contractor in terms of 27.0, 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				
11.6	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:				
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	11.6.1	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				
	11.6.2	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				
	11.6.3	The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 25				
	11.6.4	Where the employer has a right of recovery against the contractor in terms of 27.0, the employer may issue a written notice in terms of 27.4 or may recover from the payment reduction or may do both				
	11.7	Where security as a payment reduction of ten percent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:				
	11.7.1	The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 25				
	11.7.2	The employer shall be entitled to recover expense and loss from the payment reduction in terms of 27.0 provided that the employer complies with the provisions of 27.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor				
	11.8	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				
	11.9	11.9Should the contractor fail to furnish the security in terms of 11.2, the employer, in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 11.7 shall be applicable				
	Fixed:_____ Value related:_____ Time related:_____ ☐		Item			
	<u>EXECUTION</u>					
12	A12.0	OBLIGATIONS OF THE PARTIES				
	Clause 12.0					
	Clause 12.1.1 is amended by replacing it with:					
	No clause					
	Clause 12.2.4 is amended by the addition of the following clause:					
	12.2.4	An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (10) calendar days of commencement date				
	Clause 12.2.7 is amended by replacing it with the following clause:					
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		Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 12.2.4				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
13	A13.0	SETTING OUT OF THE WORKS				
		Clause 13.0				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
14	A14.0	NOMINATED SUBCONTRACTORS				
		Clause 14.0				
		Clause 14.1.5 is amended by replacing it with the following:				
		Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
15	A15.0	SELECTED SUBCONTRACTORS				
		Clause 15.0				
		Clause 15.1.2 to 15.5 and 15.2 to 15.5 is amended by replacing it with:				
		The Contractor and principal agent shall appoint a selected subcontractor in accordance with the CIDB practice #7				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
16	A16.0	DIRECT CONTRACTORS				
		Clause 16.0				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
17	A17.0	CONTRACT INSTRUCTIONS				
		Clause 17.0				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
		COMPLETION				
18	A18.0	INTERIM COMPLETION				
		Clause 18.0				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
19	A19.0	PRACTICAL COMPLETION				
		Clause 19.0				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
20	A20.0	COMPLETION IN SECTIONS				
		Clause 20.0				
		Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
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21	A21.0	DEFECTS LIABILITY PERIOD AND FINAL COMPLETION Clause 21.0 Add the following to the end of sub-clause 21.1.2: "All civil, electrical, electronic, HVAC, fire detection, gas suppression and other specialist installations are subject to a three hundred and sixty-five (365) calendar days defects liability and maintenance period. The contractor shall attend to defects during the works completion and defects liability periods on a progressive basis, to the satisfaction of the principal agent and will not be permitted to wait until the end of the defects liability period or until the amount of defects accumulate in order to attend to a comprehensive list of defects." Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
22	A22.0	LATENT DEFECTS LIABILITY PERIOD Clause 22.0 Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
23	A23.0	REVISION OF DATE FOR PRACTICAL COMPLETION Clause 23.0 (i) The addition of the following clauses:- Sub-clause 23.9 "Revision to the date for practical completion shall only be considered when work on the critical path of the agreed programme for the works is delayed." (ii) Sub-clause 23.10 – Acceleration Sub-clause 23.10.1 "Irrespective of whether or not the principal agent rules that the contractor is entitled to an extension of time or a revision of the date for practical completion, the principal agent shall nevertheless, at any time, be entitled to instruct the contractor in writing to accelerate the progress of the remaining works to ensure that the works are completed by the original date for practical completion or revised date as the case may be." Sub-clause 23.10.2 "Upon receipt of such instruction, the contractor shall take all necessary steps to ensure that the works are completed timeously including the provision by him of additional resources, plant, manpower, etc and the working overtime or additional overtime beyond that contemplated at the time of tender (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The contractor shall prove that such steps are being taken if called upon to do so." Sub-clause 23.10.3 "The contractor's entitlement to compensation arising out of or in respect of any revision to the date for practical completion that may have been granted by the principal agent or alternatively where the principal agent has instructed the contractor to accelerate, shall be adjudicated strictly in terms of clause 32." Fixed: _____ Value related: _____ Time related: _____ ☐	Item			
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24	A24.0	PENALTY FOR LATE AND NON-COMPLETION Clause 24.0 Fixed: _____ Value related: _____ Time related: _____ ☐ <u>Failure to achieve practical completion</u> Provision for termination of contractor due to delay or failure to achieve Practical Completion, including recovery costs, re-tendering, delay-related costs, administrative overheads, additional site supervision, and provision for unfruitful and wasteful expenditure. Delays in achieving Practical Completion <u>PAYMENT</u>	Item			
			Days		-R5,000.00	
25	A25.0	PAYMENT Clause 25.0 Notwithstanding this or any other clause, materials and goods stored off site shall not be included in the amount authorized for payment. The first sentence of sub-clause 25.10 is deemed to be deleted and replaced with the following: The employer shall pay the contractor the amount certified within thirty (30) calendar days of the date. Fixed: _____ Value related: _____ Time related: _____	Item			
26	A26.0	ADJUSTMENT TO THE CONTRACT VALUE Clause 26.0 Adjustment to the contract value (Clause 26.0) Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing Fixed: _____ Value related: _____ Time related: _____	Item			
27	A27.0	ADJUSTMENT TO THE CONTRACT VALUE Clause 27.0 Clause 27.2 is amended by adding the following sub-clauses: 27.2.11 The contractor's failure or neglect to commence with the works on the dates prescribed in the contract. 27.2.12 The contractor's failure or neglect to proceed with the works in terms of the contract. 27.2.13 The contractor's failure or neglect for any reason to complete the works in accordance with the contract. 27.2.14 The contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract.				
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	27.2.15	The contractor's estate being sequestrated or surrendered in terms of the Insolvency laws in force within the Republic of South Africa."				
	Fixed:_____ Value related:_____ Time related:_____		Item			
	<u>SUSPENSION AND TERMINATION</u>					
28	A28.0	SUSPENSION BY CONTRACTOR				
	Clause 28.0					
	Fixed:_____ Value related:_____ Time related:_____		Item			
29	A29.0 TERMINATION					
	Clause 29.0					
	Add the following sub-clauses 29.1.4 to 29.1.6 under 29.1 to read as follows:					
	29.1.4	The contractor's refusal or neglect to comply strictly with any of the conditions of contract.				
	29.1.5	The contractor's estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa.				
	29.1.6	The contractor, in the judgment of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.				
	Replace clause 29.3 with the following: the employer may give notice of cancellation should the contractor remain in default for ten (10) working days after the date of issue of such a notice of default					
	Clause 29.25.4					
	Replace "Sixty (60)" with "one hundred and twenty (120)".					
	Add the following sub-clauses 29.29 under 29 to read as follows: 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 stated date 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.					
	Fixed:_____ Value related:_____ Time related:_____		Item			
	<u>DISPUTE RESOLUTION</u>					
30	A30.0	DISPUTE RESOLUTION				
	Clause 30.0					
	Fixed:_____ Value related:_____ Time related:_____		Item			
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CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 1
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		<u>SECTION B: JBCC PRELIMINARIES</u>				
		<u>B1.0 DISPUTE RESOLUTION</u>				
31	B1.1	<i>Definitions and interpretation</i> See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section Fixed: _____ Value related: _____ Time related: _____	Item			
		<u>B2.0 DOCUMENTS</u>				
32	B2.1	<i>Checking of documents</i> Fixed: _____ Value related: _____ Time related: _____	Item			
33	B2.2	<i>Provisional bills of quantities</i> Fixed: _____ Value related: _____ Time related: _____	Item			
34	B2.3	<i>Availability of construction documentation</i> Fixed: _____ Value related: _____ Time related: _____	Item			
35	B2.4	<i>Interests of agents</i> Fixed: _____ Value related: _____ Time related: _____	Item			
36	B2.5	<i>Priced documents</i> Fixed: _____ Value related: _____ Time related: _____	Item			
37	B2.6	<i>Tender submission</i> Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance" Fixed: _____ Value related: _____ Time related: _____	Item			
		<u>B3.0 THE SITE</u>				
38	B3.1	<i>Defined works area</i> Fixed: _____ Value related: _____ Time related: _____	Item			
39	B3.2	<i>Geotechnical investigation</i> Fixed: _____ Value related: _____ Time related: _____	Item			
40	B3.3	<i>Inspection of the site</i> Fixed: _____ Value related: _____ Time related: _____	Item			
41	B3.4	<i>Existing premises occupied</i> Fixed: _____ Value related: _____ Time related: _____	Item			
42	B3.5	<i>Previous work - dimensional accuracy</i> Fixed: _____ Value related: _____ Time related: _____	Item			
43	B3.6	<i>Previous work - defects</i> Fixed: _____ Value related: _____ Time related: _____	Item			
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44	B3.7	Services - known Fixed: _____ Value related: _____ Time related: _____	Item			
45	B3.8	Services - unknown Fixed: _____ Value related: _____ Time related: _____	Item			
46	B3.9	Protection of trees Fixed: _____ Value related: _____ Time related: _____	Item			
47	B3.10	Articles of value Fixed: _____ Value related: _____ Time related: _____	Item			
48	B3.11	Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item			
	B4.0	MANAGEMENT OF CONTRACT				
49	B4.1	Management of the works Fixed: _____ Value related: _____ Time related: _____	Item			
49	B4.1	Management of the works Fixed: _____ Value related: _____ Time related: _____	Item			
50	B4.2	Programme for the works Fixed: _____ Value related: _____ Time related: _____	Item			
51	B4.3	Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item			
52	B4.4	Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item			
53	B4.5	Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item			
	B5.0	SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS				
54	B5.1	Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item			
55	B5.2	Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item			
56	B5.3	Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item			
57	B5.4	Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item			
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		B6.0 <u>TEMPORARY WORKS AND PLANT</u>				
58	B6.1 <i>Deposits and fees</i> Fixed: _____ Value related: _____ Time related: _____	Item				
59	B6.2 <i>Enclosure of the works</i> Fixed: _____ Value related: _____ Time related: _____	Item				
60	B6.3 <i>Advertising</i> Fixed: _____ Value related: _____ Time related: _____	Item				
61	B6.4 <i>Plant, equipment, sheds and offices</i> Fixed: _____ Value related: _____ Time related: _____	Item				
62	B6.5 <i>Main notice board</i> Fixed: _____ Value related: _____ Time related: _____	Item				
63	B6.6 <i>Subcontractors' notice board</i> Fixed: _____ Value related: _____ Time related: _____	Item				
		B7.0 <u>TEMPORARY SERVICES</u>				
64	B7.1 <i>Location</i> Fixed: _____ Value related: _____ Time related: _____	Item				
65	B7.2 <i>Water</i> Fixed: _____ Value related: _____ Time related: _____	Item				
66	B7.3 <i>Electricity</i> Fixed: _____ Value related: _____ Time related: _____	Item				
67	B7.4 <i>Telecommunication facilities</i> Fixed: _____ Value related: _____ Time related: _____	Item				
68	B7.5 <i>Ablution facilities</i> Fixed: _____ Value related: _____ Time related: _____	Item				
		B8.0 <u>PRIME COST AMOUNTS</u>				
69	B8.1 <i>Responsibility for prime cost amounts</i> Fixed: _____ Value related: _____ Time related: _____	Item				
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	B9.0 ATTENDANCE ON N/S SUBCONTRACTORS					
70	B9.1 General attendance Fixed: _____ Value related: _____ Time related: _____	Item				
71	B9.2 Special attendance Fixed: _____ Value related: _____ Time related: _____	Item				
72	B9.3 Commissioning - fuel, water and electricity Fixed: _____ Value related: _____ Time related: _____	Item				
	B10.0 FINANCIAL ASPECTS					
73	B10.1 Statutory taxes, duties and levies Fixed: _____ Value related: _____ Time related: _____	Item				
74	B10.2 Payment for preliminaries Fixed: _____ Value related: _____ Time related: _____	Item				
75	B10.3 Adjustment of preliminaries Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document" Fixed: _____ Value related: _____ Time related: _____	Item				
76	B10.4 Payment certificate cash flow Fixed: _____ Value related: _____ Time related: _____	Item				
	B11.0 GENERAL					
77	B11.1 Protection of the works Fixed: _____ Value related: _____ Time related: _____	Item				
78	B11.2 Protection / isolation of existing / sectionally occupied works Fixed: _____ Value related: _____ Time related: _____	Item				
79	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____	Item				
80	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____	Item				
81	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item				
82	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item				
BILL No. 1	Bill No. 1 PRELIMINARIES AND GENERAL carried to collection					

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83	B11.7	Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item			
84	B11.8	Vermin Fixed: _____ Value related: _____ Time related: _____	Item			
85	B11.9	Overhand work Fixed: _____ Value related: _____ Time related: _____	Item			
86	B11.10	Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item			
87	B11.11	As built information Fixed: _____ Value related: _____ Time related: _____	Item			
88	B11.12	Tenant installations Fixed: _____ Value related: _____ Time related: _____	Item			
	B12.0	SCHEDULE OF VARIABLES				
89	B12.1	Schedule of variables Fixed: _____ Value related: _____ Time related: _____ 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	Item			
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	12.1	PRE-TENDER INFORMATION				
	12.1.1 [2.2]	Provisional bills of quantities The quantities are provisional YES/NO				
	12.1.2 [2.3]	Availability of construction documentation Construction documentation is complete YES/NO				
	12.1.3 [2.4]	Interests of agents Details:				
	12.1.4 [3.1]	Defined works area Details:				
	12.1.5 [3.2]	Geotechnical investigation Details:				
	12.1.6 [3.4]	Existing premises occupied Details:				
	12.1.7 [3.5]	Previous work - dimensional accuracy Details:				
	12.1.8 [3.6]	Previous work - defects Details:				
	12.1.9 [3.7]	Services - known Details:				
	12.1.10 [3.9]	Protection of trees Details:				
	12.1.11 [3.11]	Inspection of adjoining properties Details:				
	12.1.12 [6.2]	Enclosure of the works Details:				
	12.1.13 [6.4.3]	Offices Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times				
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	12.1.14 [6.5]	Main notice board Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as per Drawing, 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 [7.2]	Subcontractors' notice board <i>A notice board is required</i> YES/NO Specific requirements:				
	12.1.16 [7.3]	Water <i>Option A (by contractor)</i> YES/NO <i>Option B (by employer - free of charge)</i> YES/NO <i>Option C (by employer - metered)</i> YES/NO				
	12.1.17 [6.6]	Electricity <i>Option A (by contractor)</i> YES/NO <i>Option B (by employer - free of charge)</i> YES/NO <i>Option C (by employer - metered)</i> YES/NO				
	12.1.18 [7.4]	Telecommunications <i>Option A (by contractor)</i> YES/NO <i>Option B (by employer - free of charge)</i> YES/NO <i>Option C (by employer - metered)</i> YES/NO				
	12.1.19 [7.5]	Ablution facilities <i>Option A (by contractor)</i> YES/NO <i>Option B (by employer)</i> YES/NO				
	12.1.20 [11.2]	Protection of existing/sectionally occupied works <i>Option A (by contractor)</i> YES/NO				
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	12.1.19 [7.5]	Ablution facilities Option A (by contractor) YES/NO Option B (by employer) YES/NO				
	12.1.20 [11.2]	Protection of existing/sectionally occupied works Option A (by contractor)				
	12.1.21 [9.2]	Special attendance Subcontractor (1) details: Subcontractor (2) details: Subcontractor (3) details: Subcontractor (4) details:				
	12.1.22 [11.1]	Special attendance Specific requirements:				
	12.1.23 [11.1]	Disturbance 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				
	12.1.24 [11.6]	Environmental disturbance Specific requirements:				
	12.2	POST-TENDER INFORMATION				
	12.1.19 [7.5]	Payment of preliminaries Option A (prorated) YES/NO Option B (calculated) YES/NO				
	12.2.2 [10.3]	Adjustment of preliminaries Option A (prorated) YES/NO Option B (calculated) YES/NO				
	12.2.3	Additional agreed preliminaries items Details:				
	SECTION C: SPECIFIC PRELIMINARIES Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item					
90	C1.0	CONTRACT DRAWINGS * Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a bills of quantities or lump sum document				
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		*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 *A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent Fixed: _____ Value related: _____ Time related: _____	Item			
91	C2.0	GENERAL PREAMBLES				
		The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website (http://www.publicworks.gov.za/ under "Consultants Guidelines"), and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used Fixed: _____ Value related: _____ Time related: _____	Item			
92	C3.0	TRADE NAMES				
		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 Fixed: _____ Value related: _____ Time related: _____	Item			
93	C4.0	IMPORTED MATERIALS AND EQUIPMENT				
		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 DPW-23(EC) 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) Fixed: _____ Value related: _____ Time related: _____	Item			
94	C5.0	IMPORTED MATERIALS AND EQUIPMENT				
		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 Fixed: _____ Value related: _____ Time related: _____	Item			
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95	C6.0	COMMENCEMENT OF WORKS IN SECURITY AREAS As the works falls 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 Fixed: _____ Value related: _____ Time related: _____	Item			
96	C7.0	ENTRANCE PERMITS TO SECURITY AREAS As the works falls 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 Fixed: _____ Value related: _____ Time related: _____	Item			
97	C8.0	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 to any document or information relating to the works Fixed: _____ Value related: _____ Time related: _____	Item			
98	C9.0	PROHIBITION ON TAKING OF PHOTOGRAPHS In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959 Fixed: _____ Value related: _____ Time related: _____	Item			
99	C10.0	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 items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained				
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		The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Fixed:_____ Value related:_____ Time related:_____	Item			
100	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 Fixed:_____ Value related:_____ Time related:_____	Item			
101	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 Fixed:_____ Value related:_____ Time related:_____	Item			
102	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 Fixed:_____ Value related:_____ Time related:_____	Item			
103	C10.4	ACCESS TO CONDOMS				
		Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms daily as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification Fixed:_____ Value related:_____ Time related:_____	Item			
104	C10.5	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 Fixed:_____ Value related:_____ Time related:_____	Item			
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105	C11.0	OCCUPATIONAL HEALTH AND SAFETY ACT The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent , notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment 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 Fixed: _____ Value related: _____ Time related: _____ PPE				
106	C11.1	HI-VISIBILITY CONTI-SUIT Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
107	C11.2	HI-VISIBILITY T-SHIRTS Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
108	C11.3	STEEL TOE-CAPPED SAFETY BOOTS Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
109	C11.4	HI-VISIBILITY SAFETY VEST Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
110	C11.5	SABS APPROVED HARD HAT Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
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111	C11.6	HI-VISIBILITY RAIN SUITS Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
112	C11.7	STEEL TOE CAPPED GUMBOOTS Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
113	C11.8	DUST MASKS (STIPULATE FFP) Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
114	C11.9	SAFETY GLASSES Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
115	C11.10	GLOVES (STIPULATE TYPE): Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
116	C11.11	SAFETY HARNESES Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
117	C11.13	ISSUE OF DISPOSABLE GLOVES Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
118	C11.14	ISSUE OF FACE SHIELDS Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
119	C11.15	OTHER Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
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		<u>TRAINING</u>				
120	C11.16	SAFETY REPRESENTATIVE TRAINING Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
121	C11.17	FIRST AIDER TRAINING Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
122	C11.18	FIRE FIGHTING TRAINING Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item			
		<u>WORKING AT HEIGHTS</u>				
123	C11.19	BASIC FALL ARREST (US229998) Once off or every 3 years Fixed: _____ Value related: _____ Time related: _____	Item			
124	C11.20	BASIC FALL ARREST AND RESCUE (US229995 AND US229998) Once off or every 3 years Fixed: _____ Value related: _____ Time related: _____	Item			
125	C11.21	FALL PROTECTION PLANNER (US229998 AND 229994) Once off or every 3 years Fixed: _____ Value related: _____ Time related: _____	Item			
		<u>SCAFFOLDING (AS PER SANS10085)</u>				
126	C11.22	SCAFFOLDING SUPERVISOR Once off Fixed: _____ Value related: _____ Time related: _____	Item			
127	C11.23	SCAFFOLDING INSPECTOR Once off Fixed: _____ Value related: _____ Time related: _____	Item			
128	C11.24	SCAFFOLDING ERECTOR Once off Fixed: _____ Value related: _____ Time related: _____	Item			
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129	C11.25	INDUCTION TRAINING INCLUDING COVID AWARENESS Fixed: _____ Value related: _____ Time related: _____	Item			
130	C11.26	OTHER Fixed: _____ Value related: _____ Time related: _____ <u>HEALTH AND SAFETY SALARIES</u>	Item			
131	C11.27	CHC MANAGER Monthly Salary Fixed: _____ Value related: _____ Time related: _____	Item			
132	C11.28	CHC OFFICER Monthly Salary Fixed: _____ Value related: _____ Time related: _____	Item			
134	C11.30	OTHER Monthly Salary Fixed: _____ Value related: _____ Time related: _____ <u>SPECIFIC HEALTH AND SAFETY ITEMS</u>	Item			
135	C11.31	MEDICALS INCLUDING COVID SCREENING Pre-placement, Annual and Exist Fixed: _____ Value related: _____ Time related: _____	Item			
136	C11.32	SPILL KIT Once off Fixed: _____ Value related: _____ Time related: _____	Item			
137	C11.33	ACCOMMODATION OF TRAFFIC Accommodation of Traffic as per Client tender BOQ Fixed: _____ Value related: _____ Time related: _____	Item			
138	C11.34	INDUCTIONS Annual Fixed: _____ Value related: _____ Time related: _____	Item			
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139	C11.35	FIRST AID KITS Once off Fixed: _____ Value related: _____ Time related: _____	Item			
140	C11.36	FIRE EXTINGUISHERS Once off Fixed: _____ Value related: _____ Time related: _____	Item			
141	C11.37	ABLUTIONS Once off Fixed: _____ Value related: _____ Time related: _____	Item			
142	C11.38	BARRIER NETTING Once off Fixed: _____ Value related: _____ Time related: _____	Item			
143	C11.39	FALL PROTECTION PLAN Fall Protection Plan drafted by a Fall Protection Planner US22994 and 229998 (once off and ongoing implementation) Fixed: _____ Value related: _____ Time related: _____	Item			
144	C11.40	NON-TOUCH THERMOMETER Fixed: _____ Value related: _____ Time related: _____	Item			
145	C11.41	HAND SANITIZER Fixed: _____ Value related: _____ Time related: _____	Item			
146	C11.42	BIOHAZARD BINS AND DISPOSAL Fixed: _____ Value related: _____ Time related: _____	Item			
147	C11.43	OTHER Fixed: _____ Value related: _____ Time related: _____ <u>SAFETY SIGNAGE</u>	Item			
148	C11.44	CONSTRUCTION BOARDS Once off Fixed: _____ Value related: _____ Time related: _____	Item			
149	C11.45	FIRE EXTINGUISHER Once off Fixed: _____ Value related: _____ Time related: _____	Item			
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150	C11.46	DIRECTIONAL SIGNAGE Once off Fixed: _____ Value related: _____ Time related: _____	Item			
151	C11.47	EMERGENCY ASSEMBLY POINT Once off Fixed: _____ Value related: _____ Time related: _____	Item			
152	C11.48	NO SMOKING SIGNAGE Once off Fixed: _____ Value related: _____ Time related: _____	Item			
153	C11.49	LADIES AND MEN'S TOILETS SIGNAGE Once off Fixed: _____ Value related: _____ Time related: _____	Item			
154	C11.50	NO NAKED FLAMES' SIGNAGE Once off Fixed: _____ Value related: _____ Time related: _____	Item			
155	C11.51	OTHER (OTHER SIGNAGE) Once off Fixed: _____ Value related: _____ Time related: _____	Item			
		<u>SAFETY DOCUMENTATION</u>				
156	C11.52	HEALTH AND SAFETY PLAN Fixed: _____ Value related: _____ Time related: _____	Item			
157	C11.53	HEALTH AND SAFETY FILE Fixed: _____ Value related: _____ Time related: _____	Item			
158	C11.56	OTHER Once off Fixed: _____ Value related: _____ Time related: _____	Item			
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		<u>C12 EPWP CONDITIONS AND SPECIFICATIONS</u> <u>EMPLOYMENT TARGETS</u> Employment Targets The contractor needs to provide a realistic estimate on the number of jobs that the project has the potential to create throughout the project duration as the project will be implemented using labour intensive construction methods on elements where it is economical and feasible for this construction method. No of jobs to be created = [Contractor to fill in an estimated number] 159 Fixed:_____ Value related:_____ Time related:_____ Employment requirements Tenderers are advised that this contract will be subject to the Expanded Public Works Program (EPWP) aimed at alleviating and reducing unemployment. Tenderers must allow for any costs for the employment of unskilled labour as per the requirements of the EPWP program; 1. 55% of unskilled labour to be women 2. 55% of unskilled labour to be youth aged between 18 and 35 years 3. 2% of unskilled labour to be people living with disability 4. 100% Unskilled labour utilised must reside within the boundaries of the Municipality Ward where this contract is executed, with preference to the local community closest or at the walking distance to the contract site. Wherever possible local skilled tradesmen are to be employed on this contract with the view to maximize utilization of local resources. 160 Fixed:_____ Value related:_____ Time related:_____ Labour rate and payment intervals commensurate to the daily task. When determining the rate, consideration should be given to that EPWP beneficiaries are mostly bread winners in their families, as the program intends alleviating poverty. There should also be consideration that the labour rate promotes creation of expanded number of jobs created and person days of work. Contractors should make endeavours to ensure that labourers particularly unskilled are remunerated on fortnight basis and prior notification be made should there be a shortfall on their wages. The labour rate for local unskilled shall also be determined in consideration of the location of the project, i.e. for projects implemented in urbanized municipalities will not be the same as that for rural municipalities. 161 Fixed:_____ Value related:_____ Time related:_____	Item			
			Item			
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		<u>LABOUR INTENSIVE CONSTRUCTION</u> Labour Intensive Construction (LIC) method On site there must a person(s) having competency in managing and implementing LIC methods. *Foreman @ NQF Level 4 the Unit Standard on Implementing LIC methods on site. *Site Agent/ Managers @ NQF level 5 the Unit Standard on Manage Labour- Intensive Skills Programme both must be CETA accredited				
162	Fixed: _____ Value related: _____ Time related: _____	Labour Intensive Construction Method Reference to be made to Guidelines for the implementation of Labour-Intensive Infrastructure projects under EPWP. "Scope of Work in Respect of Work Relating to the Expanded Public Works Programme (EPWP)"	Item			
163	Fixed: _____ Value related: _____ Time related: _____		Item			
		<u>RECORD KEEPING</u> Every employer must keep in the project site office the following minutes of site progress minutes; contractors' monthly site progress reports; accurately recorded attendance register; proof of payment as means to verify authenticity of data in the EPWP Beneficiary form submitted with payment certificates. Copies of submitted EPWP beneficiary data forms should also be kept in the site office.				
164	Fixed: _____ Value related: _____ Time related: _____	The employer must keep this record for a period of at least three (3) years after the completion of the project in his/her office as the project site office would have been relocated. This should be safely kept for job creation data verifications and periodical audits on projects conducted by National and Provincial Department of Public Works after one (1) or two (2) quarters of submitting captured EPWP Data to the National EPWP coordinating Department.	Item			
165	Fixed: _____ Value related: _____ Time related: _____		Item			
		<u>EPWP REPORTING as per EPWP DATA FORM</u> At the end of each month as part of site progress report and to be attached to every contractor's progress payment certificate; the contractor shall provide the principal agent & Public Works with a written records, as per EPWP data form; which will be reflecting, beneficiaries full name & surname; ID No and job description of labour employed by main contractor and sub-contractors on site. At the end of each month the contractor must submit the following documents to be attached to the Progress payment certificate: 1. EPWP monthly data collection form 2. Worker monthly payment upload 3. Worker monthly proof of payment i.e 3.1 Acknowledgement of receipt of payment or 3.2 Pay slips				
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166	3.3 Bank statement highlighted the workers paid 4. Worker monthly training form 5. Monthly attendance register 6. Certified copies of ID's (once off) 7. ID size photos (once off) 8. Proof of UIF 9. Proof of COIDA					
	Fixed: _____ Value related: _____ Time related: _____	Item				
	<u>EPWP PROMOTION</u> EPWP signage board EPWP Program at the project level shall always be promoted through having the projects signage board that embrace EPWP logo at the bottom, correct measurement for this signage board will be provided by the project leader during the site handing over meeting. The standard "HELVETIVA MEDIUM" letters are to be used. Professional title to be 10 mm above line. Line thickness to be 8 mm thick. Space between bottom of the line and bottom of the lettering below the line must be 100 mm. Letter sizes are as follows: Helvetica medium 100 mm black upper case to be for project name and owner. Helvetica medium 75mm black upper case only to be used for professional titles. Project name and owner shall be black lettering on white background. Board sizes are as follows: Board to be minimum 2000mm from ground level and to be constructed from reinforced formed chromadek panels minimum 0,6mm thick chromadek. The contractor is responsible for ensuring that the project board remains neatly and safely erected for the full duration including maintenance period, after which the project board and post are to be dismantled and handed to the client in good order.					
167	Fixed: _____ Value related: _____ Time related: _____	Item				
	Branding of labour apparel Contractor & Sub-contractors' labourers shall be provided with EPWP branded Personal Protective Equipment (PPE), reflector vest with EPWP wording at the back is an ideal and cost-effective means of promoting program on site.					
168	Fixed: _____ Value related: _____ Time related: _____	Item				
	<u>COMMUNITY LIAISON OFFICER (CLO)</u> UTILISATION OF A COMMUNITY LIAISON OFFICER The Contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract In the interest of providing a sound service to both the community and the Contractor, a CLO may only manage one project at a given time. A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The Contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.					
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		<u>Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:</u> RFP 17- 2024/25 - Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by contractor. - Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor. - Assisting the contractor by identifying areas of potential conflict and or threats to the project or to stakeholders in the project and recommend appropriate action to the contractor. - Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise. - Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained. - Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained - Identifying and reporting to the Contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications - Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendations to the Contractor regarding the grievances and solution thereto. - Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time. - Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time. Tenderers are to price twice the rate of unskilled local labour rate against this item for any and all costs arising out of compliance with the foregoing and in the event of a Tenderer failing to price against this item or making inadequate financial provision against this item for compliance as aforesaid, then no claim for costs or additional cost incurred will be entertained by the Head: Health				
169	Fixed: _____ Value related: _____ Time related: _____	<u>SKILLS DEVELOPMENT ON SITE</u> Contractor in conforming to the object of EPWP that its beneficiaries need to be capacitated with skills that will render them employable in the future. It is then the responsibility of the Contractor that mandatory life skills are provided to 100% of workforce on site and on the job training to labourers from whom the potential for further development has been identified. The latter is not mandatory to all as it covers technical skills.	Item			
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170	Fixed: _____ Value related: _____ Time related: _____	Contractor should also make provision for the possibility that there might be local youth that will need to be placed on the project with an intention to be provided support towards improving their level of competency and productivity.	Item			
		Contractor shall also provide all necessary on-the-job training to targeted labour to enable such labour to master and advance on techniques required to undertake the work in accordance with requirements of the contract in a manner that does not compromise workers health and safety.				
		<u>LABOUR ONLY Sub Contracting for local emerging enterprises</u>				
		Tenderer's are advised that this contract is subject to the Expanded Public Works Programme (EPWP) and the following criteria will apply:				
		African Equity Ownership				
		a) The Tenderer is to allow for 5% of the total value of works to be undertaken by a Priority Population Group (PPG). This percentage excludes the costs of employing local unskilled labour. The allocation of this percentage from the Project, the screening of people, the selection of skills, will be for the Contractor to adjudicate.				
		b) The Priority Population Group consists of women, youth and disabled people.				
		c) The Contractor is to give first option for prospective PPGs from the surrounding areas of the Project. Should there be insufficient suitable people fitting the criteria of PPG's, the Contractor may hire people from further afield. This is to be done only after consultation with the Department of Works EPWP Co-Ordinator and the Community Liaison Officer (CLO).				
		d) A Mentor is to be employed by the Contractor, in consultation with the Department of Works for the purposes of quality control and liaison between the Contractor and the selected PPGs on site. The mentor will be responsible for ensuring an acceptable level of quality workmanship and that such work carried out by the PPG's is executed within the time frames stipulated.				
		In so far as possible, the Contractor is encouraged to expand the PPGs skills, knowledge and performance levels.				
171	Fixed: _____ Value related: _____ Time related: _____		Item			
		<u>TENDERER'S TO NOTE CONDITIONS</u>				
		a) The contract to be entered into between the Contractor and the PPG's will be a LABOUR ONLY sub-contract.				
		b) The Contractor will be responsible for ensuring that all materials for use by the PPG's in the works are to be on site timeously. The Contractor shall liaise with The Mentor and PPG to determine the nature and extent of materials required and the lead time necessary.				
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	c)	The Contractor shall be responsible for the overall programming of the Works, and he is to allow for monitoring the PPG's programme and progress.				
	d)	In conjunction with the Mentor, he is to allow for the supervision and mentoring (where necessary) of the PPG to ensure quality and adherence to standard building practice				
	e)	The Contractor is to allow for extra storage facilities on site for the PPG's tools and equipment.				
	f)	Basic tools shall be provided by the PPG's and where these are not available; the Contractor will supply him with the necessary tools and equipment and deduct the costs thereof from the interim claims made by the PPG.				
	g)	Work requiring specialized tools will be provided free of charge by the Contractor with the provision that these be returned upon completion of the Work.				
		CO-ORDINATION				
		The Contractor is to co-ordinate the work of all the PPG's, Sub-Contractors and Nominated Sub- Contractors appointed direct by the Employer in such a manner and at all times as will suit the building programme and he is to allow adequate access, for the PPGs, where required, to carry out their work in an efficient manner as no claims for extras in this connection will be entertained.				
172	Fixed: _____ Value related: _____ Time related: _____		Item			
		ATTENDANCE				
		The Contractor may allow for attendance upon the PPG's concerned to execute the work. The Contractor is to allow the PPG's the use of any scaffolding belonging to him while it remains so erected on the site.				
		Where scaffolding is necessary for the use by any PPG and the Contractor has not erected any for his own use or has removed same after his own use, the Contractor shall supply sufficient scaffolding to the PPG to be erected and dismantled by the PPG and returned to the Contractor.				
		This attendance upon PPG's to execute the work is to include for the scaffolding provisions as aforesaid and, in addition, is to include for co-operating to the fullest extent with all the parties, attending on off-loading materials, providing suitable storage for tools and materials used by the PPG's, use of general facilities such as latrines, etc., supply and cost of power, lighting, water and the like.				
173	Fixed: _____ Value related: _____ Time related: _____		Item			
		<u>EPWP CONTRACT FOR LABOUR</u>				
		It is compulsory that shortly after the contractor and or sub-contractor has appointed local labour, the employment contract should be signed by both parties, prior to commencement with works on site. The employment contract forms part of the Ministerial Determination or from the regional EPWP officials. Each contract will lapse at the end of each financial year therefore requiring the Contractor to do a renewal of each contract should the need of employment still exist for that particular labourer.				
174	Fixed: _____ Value related: _____ Time related: _____		Item			
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175	<u>EPWP SCOPE of WORK</u> <u>Note:</u> Contractors are to price any item on the Bill of Quantities having below, bearing in mind that they are regarded as main sources of job creation, whether subcontracted or undertaken by the main contractor. Elements on the scope of work where application of Labour-Intensive Construction methods are regarded feasible are as follows. i) Excavating trenches for foundations and any other civil works with the depth not more than 1.5 m ii) All masonry works which include concrete mixing on site; brickwork; plastering; screed works; jointing; etc. iii) Painting, Plumbing, Ironmongery; roof cladding; glazing; tiling; carpentry; flooring; waterproofing; etc. Fixed:_____ Value related:_____ Time related:_____		Item			
	<u>Note:</u> It is a general requirement of this contract that persons normally resident in the ward of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate labour is not available within the ward, others may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour (Local Sub-contractor(s); Skilled; Semi-Skilled and Unskilled). The contractor shall in consultation with the local community leaders with the purpose of negotiating with them regarding the utilization of local resources in the construction process. In this regard, the contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth as well as families declared as most indigent by War on Poverty/ Sukuma Sakhe program profiling process. The contractor should aim, in general, to maximise the involvement of the local community, however workers from other communities should not exceed 20% of all persons working on the project, where local employees possess skills at level of competency that meet contractors requirements. The Contractor and subcontractors will employ and utilise local labour within a 10 km radius from the sites of construction. Local specialised and general labour will be used for skilled and unskilled work, placing responsibility on the Contractors to provide the required on-site training to achieve a competent work force. Payment for the labour-intensive component of the works Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict. Linkage of payment for labour-intensive component of works to submission of project data					
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		The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted. Applicable labour laws The current Ministerial Determination (also downloadable at www.epwp.gov.za) Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice, shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled or semi-skilled workers.				
176	Fixed: _____ Value related: _____ Time related: _____		Item			
177		PENALTIES FOR SERIOUS VIOLATION Protection of site and environmental responsibilities (a) Penalty for unnecessary removal or damage to trees: (i) 2,600 mm girth or less No. -R5,000.00 (ii) Greater than 2,600 mm, but less than 6,180 mm girth No. -R10,000.00 (iii) Greater than 6,180 mm girth No. -R3,000.00 (b) Penalty for serious violations: (i) Hazardous chemical/oil spill and/or dumping non-approved sites No. -R10,000.00 (ii) General damage to sensitive environments No. -R5,000.00 (iii) Damage to cultural and historical sites No. -R5,000.00 (iv) Pollution of water sources No. -R10,000.00 (v) Unauthorized blasting activities No. -R5,000.00 (vi) Uncontrolled/unmanaged erosion (depending on environmental impacts, plus rehabilitation at Contractor's cost) No. -R1,000.00 (viii) Damage to sensitive vegetation within "no-go" areas (depending on vegetation damaged, plus rehabilitation thereof at Contractor's cost) -R5,000.00				
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	(c)	Penalty for less serious violations:				
	(i)	Littering on site	No.		-R1,000.00	
	(ii)	Lighting of illegal fires on site	No.		-R1,000.00	
	(iii)	Persistent or un-repaired fuel and oil leaks	No.		-R500.00	
	(iv)	Any person related to the Contractor's operations found within the designated "no-go" areas	No.		-R3,000.00	
	(v)	Excess dust or excess noise emanating from site	No.		-R1,000.00	
	(vi)	Dumping of milled material in side drains or on grassed areas	No.		-R1,000.00	
	(vii)	Possession or use of intoxicating substances on site	No.		-R500.00	
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CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 2
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 2</u> <u>ALTERATION & REMOVAL WORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>REMOVAL OF EXISTING WORK</u> <u>SPECIAL PREAMBLES</u> <u>REMOVE</u> The term "remove" shall mean breaking out as required to remove the item described, disposal of all rubble and old materials, and making good all work disturbed to match existing. Remove walls or partitions shall mean breaking down complete to structure of walls, etc. and trimming up edges and disposal of rubble and all old materials from site (old materials as elsewhere described). Prices shall include for protecting adjacent surfaces against damage and .repairing such damage should it occur. <u>OLD MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR</u> Old material from the alterations except where described for re-use or handing over, will become the property of the Contractor for which Credit must be allowed. <u>OLD MATERIAL MUST BE CARTED AWAY</u> Old material from the alterations except where described for re-use or handing over, as well as all debris must regularly be carted away from site and not be accumulated on site. <u>OLD MATERIAL MAY NOT BE RE-USED</u> No old material may be re-used for new work except where it is specifically described as set aside for re-use. <u>DISPOSAL OF DEBRIS, ETC</u> The Contractor shall be responsible for the removal from the site of all materials, debris and rubbish resulting from the . alterations/demolitions <u>GENERAL</u> <u>Damage To Persons And Property</u> All demolitions, pulling down, alterations etc., are to be carried out carefully and in the safest possible manner. The Contractor is to . ascertain that all alterations are structurally practicable and safe and he will be held solely responsible for any damage to property or work adjoining the pulling down and must make good at his own expense <u>Programming Of The Works</u> The programming of demolitions and alterations will have to be co-ordinated with the Principal Agent.				
BILL No. 2	Bill No. 2 ALTERATION & REMOVAL WORKS carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 2
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Care Of Utility Services</u> Special care is to be exercised not to interfere with any drains, electrical supply, data, or telephone cables and fittings to same. Notice is to be given to the Principal Agent when any disconnections, removal of wires etc. are necessary and the Contractor is to afford every facility to the workmen carrying out this work. Permission must be obtained from the Principal Agent before any services are cut off at any time. <u>Temporary Shoring Etc.</u> Prices are to include for providing, fixing and maintaining in position generally as required all temporary shoring, needling, strutting etc., necessary for the proper execution of the alterations in this Contract and for removing same. <u>Supervision</u> The demolition work is to be executed in a workmanlike, practical and safe manner under the continual supervision of a competent foremen. <u>Protection of existing structures/features etc.</u> The contractor's rates is to allow for provision for protecting all existing structures, walls, trees etc. within the vicinity of works during construction. <u>Reinstatement of existing areas</u> The contractor to note as per architects specifications that areas worked on and around are to be reinstated to its original condition and state where specified. <u>Treatment of cut surfaces</u> The contractor's rates is to allow for treating all cut surfaces of timber/wooden components with approved enseal. <u>REMOVAL OF EXISTING WORK</u> Prices for removal must include for cutting and breaking down into manageable sizes bearing in mind the restrictions which apply to means of disposal. Contractors, where possible, must provide a credit to the Employer for all items that may have any salvage value. Tenderers are advised to study the Model Preambles for Trades before pricing this bill. <u>TEMPORARY BARRIERS, SCREENS, ETC</u> <u>Temporary barriers, screens, hoarding, etc. including removal and making good upon completion</u> 1 Fencing 1.8m high to Principal Agents Approval including netting fixed to fence, corners, stays etc. 2 Extra over fencing for single pedestrian gate 900mm x 1800mm high including frame, hinges, lockset and handles to temporary fencing <u>CONCRETE</u> <u>Breaking through existing in-situ slab for new apron</u> 3 Break out and remove reinforced concrete				
BILL No. 2	Bill No. 2 ALTERATION & REMOVAL WORKS carried to collection					

CONTRACT NUMBER: GS40/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 2
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>CLEANING EXISTING WALLS</u>				
		<u>Cleaning down existing face brick and stone surfaces</u> <u>Thoroughly clean down existing surfaces by means of high</u> <u>pressure water jet (minimum 250 bar) and chemicals, remove</u> <u>all flaking substances, fungal marks, grease and all other</u> <u>contaminants, etc, as described in the specification</u>				
4		Vertical and horizontal face brickwork and stone cladding	m ²	414		
		<u>ROOF COVERING/STRUCTURE</u>				
		<u>Examining of existing roof and making good</u>				
5		Examining roofs check for roof leaks, check and fix loose timber trusses, supports, rafters including ridge cappings and securing loose nails, replacing missing or defective screws and/or nails with 120mm galvanised steel drive screws, making good holes with approved sealant or waterproofing as specified by the architect to render watertight and leave in good order	m ²	177		
		<u>Carefully taking down and removing roofs</u>				
6		Roofs including thatch and purlin laths while securing existing trusses in place	m ²	177		
7		Treat existing trusses measured net with two coats Powafix or similar and approved creosote protective coating	m ²	177		
		<u>Carefully taking down and removing fascias, bargeboards, etc.</u>				
8		Fascias and bargeboards.	m	89		
		<u>CEILINGS, PARTITIONS & ACCESS FLOORING</u>				
		<u>Carefully take down/out and remove ceilings including</u> <u>branderling, hangers, etc.</u>				
9		Ceilings	m ²	169		
10		Cornice	m	89		
		<u>METALWORK</u>				
		<u>Carefully taking down and removing</u>				
11		Metal fencing including posts etc.	m ²	130		
		<u>PLUMBING & DRAINAGE</u>				
		<u>Carefully taking out and remove sanitary fittings, taps, waste</u> <u>fittings, etc including making safe, disconnecting piping,</u> <u>cutting back, sealing exposed water supply pipes and waste</u> <u>pipes etc. and removing</u>				
12		Gutters and down pipes	m	115		
		<u>PAVING AND KERBING</u>				
		<u>Taking out and remove external paving</u>				
13		Paving bricks/blocks, including sand bedding	m ²	338		
14		Concrete kerbing including haunching and bedding	m	450		
BILL No. 2	Bill No. 2 ALTERATION & REMOVAL WORKS carried to collection					

CONTRACT NUMBER: GS40/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 2
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>BUILDING UP OPENINGS</u>				
		<u>Sundries</u>	m	4		
15		Cutting/grinding through existing walls where cracks have occurred in preparation for new sealant (sealant measured elsewhere)				
16		Cutting and toothing new brickwork to existing	m²	1		
		<u>BUDGETARY ALLOWANCES</u>				
		<u>The following Budgetary Allowances are for work to be executed by the Sub-Contractor or specialist suppliers and priced at Bill rates or rates to be agreed and to be used as directed by the Principal Agent and to be deducted in whole or in part if not required</u>				
17		Provide the sum of R50 000.00 (Fifty Thousand) for breaking down/demolishing and removing existing structures from parking lot as directed by architect	Item			R50,000.00
18		Provide the sum of R50 000.00 (Fifty Thousand) for additional general work sill to be designed and will/may be carried out by the contractor	Item			R50,000.00
BILL No. 2	Bill No. 2 ALTERATION & REMOVAL WORKS carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 2
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		ALTERATION & REMOVAL WORKS				
		<u>COLLECTION</u>				
		Total Brought Forward from Page No.	132			
			133			
			134			
			135			
BILL No. 2		Bill No. 2 ALTERATION & REMOVAL WORKS carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 3
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 3</u> <u>EARTHWORKS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of material to be excavated</u> A geotechnical investigation has been carried out on site and the report is available from the Engineers. The site is located on transported sandy and gravelly soils that are underlain by quartzite bedrock. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured. <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 and disposing of same from site. <u>Subterranean water</u> No information regarding subterranean water is available. The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefor in his prices. <u>Filling and layer work materials</u> References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter <u>Testing</u> Descriptions & prices for earth filling, compaction, etc. are deemed to include for all necessary density and other testing required in accordance with the SABS 1200 series and Engineer's specifications <u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u> <u>Excavation in earth not exceeding 2m deep</u> 1 Holes m³ 16 2 Trenches m³ 2 3 Trenches m³ 11 4 Reduced levels m³ 18 <u>Extra over trench and hole excavations in earth for excavation in</u> 5 Soft rock m³ 5 6 Hard rock m³ 10				
BILL No. 3	Bill No. 3 EARTHWORKS carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 3
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Extra over all excavations for carting away</u>				
7		Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	150		
		<u>Risk of collapse of excavations</u>				
8		Sides of trench and hole excavations not exceeding 1,5m deep	m ²	10		
		<u>Keeping excavations free of water</u>				
9		Keeping excavations free of all water other than subterranean water	Item	1		
		<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site (compacted to 98% MDD</u>				
10		Backfilling to trenches, holes, etc.	m ³	50		
		<u>Earth filling supplied by the contractor of G5 quality material in layers of 150mm thick compacted to 95% MDD</u>				
11		Under floors, pavings, etc.	m ³	23		
		<u>Compaction of Surfaces</u>				
12		Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MDD	m ²	337		
13		Compaction of ground surface in trenches, holes etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MDD	m ²	53		
		<u>Prescribed density tests on filling</u>				
14		Modified MDD test	No	3		
		<u>SOIL POISONING</u>				
		<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrisien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>				
		<u>Soil insecticide in accordance with SANS 5859</u>				
		<u>Approved brand of anti-termite soil poison & weedkiller is to be applied by a Registered Company and guaranteed for ten years</u>				
15		Under floors, paving, etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming	m ²	180		
16		To bottoms and sides of trenches, holes, raft foundations etc.	m ²	377		
BILL No. 3	Bill No. 3 EARTHWORKS carried to Summary					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE			Bill 4
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 4</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>General</u> All concrete, formwork and reinforcement to be done according to SABS 1200G. Components cast against excavated surfaces have not been measured or described separately and the Contractor is to ensure adequate allowance for casting against excavated surfaces are made within the relevant items. <u>Cost of Tests</u> The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Representative/Agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Representative/Agent. (Test cubes are measured separately) <u>Formwork</u> All smooth formwork to be in accordance with SABS 1200G - 5.2.1b. Tolerance to concrete surfaces to have a degree of Accuracy II in accordance with SABS 1200 G - 6.1.1b. Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for re-conditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to sides of bases, ground beams, etc will only be measured where it is prescribed by the Representative/Agent, for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks". A 13mm x 13mm chamfer shall be provided on all visible corners for off-shutter concrete in collaboration with the Principal Agent. Chamfers may only be formed with rigid type material. Where required by the Principal Agent or his representative, vibration of concrete shall be included in the rates.				
BILL No. 4	Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 4
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
		<u>15MPa/20mm Concrete</u>				
1		Surface blinding under footings and bases	m ³	5		
		<u>Concrete 30 MPa/19mm</u>				
2		Aprons	m ³	18		
		<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
		<u>Concrete 30 MPa/19mm</u>				
3		Raft foundation on waterproofing	m ³	40		
4		Bases	m ³	20		
5		Strip footings	m ³	2		
6		Stub columns	m ³	2		
7		Ramps	m ³	1		
		<u>Concrete test cubes</u>				
8		Making and testing , set of three 150 x 150 x 150mm concrete strength test cubes	No	2		
9		Surface bed slabs	m ²	342		
10		Ramps	m ²	5		
		<u>Wire brushing of concrete aprons to expose aggregate</u>				
11		Wiring brushing to aprons	m ²	180		
		<u>25MPa non shrink grout</u>				
12		Bedding approximately 10mm thick under 400 x 270mm base plate including chamfered edges all round	No	16		
		<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
		<u>Rough formwork to sides</u>				
13		Edges, risers, ends, reveals,etc. not exceeding 300mm high or wide	m	217		
		<u>Rough formwork to sides</u>				
14		Sides of stub columns	m ²	12		
		<u>MOVEMENT JOINTS ETC.</u>				
		<u>10mm Expansion joints formed of bitumen impregnated soft board</u>				
15		Between vertical concrete and brick surfaces not exceeding 300 mm high or wide	m	65		
16		Ditto but in walls vertically where cracks have occurred	m	4		
		<u>Isolation joint between concrete and brick surfaces with 10mm lightweight, cross-linked, closed cell, expanded Polyethylene joint former with hinged temporary blocking piece including sealing with approved sealer</u>				
17		Joints not exceeding 300mm wide	m	16		
BILL No. 4	Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 4
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
18		Ditto but placed vertically and sealed both sides	m	180		
19		Saw cut joints				
20		45mm Deep x 3mm wide saw cut joints in top of concrete	m	52		
		<u>REINFORCEMENT</u>				
		<u>Provision for high tensile steel reinforcement</u>				
22		Varying diameters in bases and structural concrete work	t	4		
		<u>Mesh reinforcement</u>				
23		Mesh reinforcement 395 laid in slabs with 300mm wide side and end laps (measured net)	m ²	340		
BILL No. 4		Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT to Summary				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 4
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CONCRETE, FORMWORK AND REINFORCEMENT <u>COLLECTION</u> Total Brought Forward from Page No.	140 141 142			
BILL No. 4	Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT carried to Summary					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 5
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 5</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>General</u> All masonry units shall comply with SANS 227:2007 and SANS 1 575:2007 Brickwork shall be in accordance with SANS 0164. Minimum crushing strength of all load bearing bricks shall be 14MPa. The nominal compressive strength for face bricks shall be not less than 17MPa Class 1 Mortar mix <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick. <u>Wall ties</u> Descriptions of solid walls and cavity walls shall be deemed to include metal wall ties complying with SABS 28 and of the butterfly or of the modified PWD type, of the required length with each end built at least 75mm deep into brickwork, spaced at not more than 1m centres alternatively to every third course of brickwork. Descriptions of solid walls (except if built in English bond) and cavity walls shall be deemed to include metal wall ties complying with SABS 28 and of the butterfly or of the modified PWD type, of the required length with each end built at least 75mm deep into brickwork, spaced at not more than 1m centres alternatively to every third course of brickwork. <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour. Excessive suction in clay bricks should be controlled by wetting the bricks before laying. Corners and other advanced work shall be raked back and not raised above the general level of the remaining masonry work by more than one metre at any one lift. Face bricks to be kept free from mortar droppings as the work continues. Reinforcing and brickforce to face brick lintels to have steel hangers to be built into brickwork above header course with R8 steel rod reinforcing for three brick courses above the lintel. All joints in the header course shall be solidly filled with mortar. <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>Strutting/shoring of brickwork</u> All cost for strutting/shoring of new brickwork while compacting under the ground floor slab shall be for the account of the contractor.				
BILL No. 5	Bill No. 5 MASONRY carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 5
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>FOUNDATIONS</u>				
		Contractor shall support all foundation brickwork while compacting fill material under floors				
		<u>Brickwork of NFX bricks in class II mortar</u>				
1		One brick wall in foundations including brick reinforcement every course	m ²	24		
		<u>SUPERSTRUCTURE</u>				
		<u>Brickwork of NFP bricks in class II mortar</u>				
2		One brick walls including brick reinforcement every fourth course and hoop iron tie fixings to columns/brickwork as directed	m ²	208		
3		One and a half brick walls including brick reinforcement every fourth course and hoop iron tie fixings to columns/brickwork as directed	m ²	16		
4		One brick wall in beam filling	m	46		
5		460 x 460mm Brick piers with a 110 x 110mm 30mpa reinforced concrete cavity infill	No	14		
6		460 x 460mm Brick piers	No	3		
7		Extra over one brick walls for sloping, cutting and shaping brickwork as per architects details and drawings to bottom section of chimney structure	m ²	9		
		<u>Prestressed fabricated lintels</u>				
8		100 x 70mm Lintels in lengths not exceeding 3m long	m	8		
		<u>FACE BRICKWORK</u>				
		<u>External facebrick (PC R6000/1000 delivered to site, excluding (VAT) pointed with square recessed horizontal and vertical joints</u>				
9		Extra over for face brickwork	m ²	145		
10		Brick-on-edge header course lintel 106mm wide pointed on one face and on soffit to match face brick of external walls, all as per Architects detail and specification	m	6		
11		Brick-on-edge header course sloping window sill, approximately 222mm wide pointed on one face and top, all as per Architects detail and specification	m	6		
		<u>STONEWORK</u>				
		<u>WALL CLADDING</u>				
		<u>Natural stone wall cladding to match existing - Allow for pricing of fixing on and labour only to cart and install - Material to be sourced locally from site and supplied free of charge to contractor. Refer to architects finishing schedules. Walls to match existing pattern and jointing detail</u>				
12		Extra over brick wall for cladding	m ²	105		
BILL No. 5	Bill No. 5 MASONRY carried to Collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 5
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		MASONRY				
		<u>COLLECTION</u>				
		Total Brought Forward from Page No.	144			
			145			
BILL No. 5						Bill No. 5 MASONRY carried to Summary

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 6
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL No. 6</u>				
	<u>WATERPROOFING</u>				
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>				
	<u>Horizontal & vertical damp-proof course to be of black polyethylene sheeting complying with SANS specifications 952 type B having embossed surface 0.38mm thick (250 microns) & manufactured in widths of less than 1000mm. Lapped minimum 150mm at all joints, & ensure similarly lapped over green under-floor damp proof membrane sufficiently</u>				
1	In walls, cills etc (measured nett) <u>One layer of 250 micron green Polyethylene sheeting to comply with SANS 952 Type C with minimum 150mm lap to DPM including sealing laps with approved tape</u>	m ²	17		
2	250 micron under surface beds, ramps etc.	m ²	307		
3	Under apron slabs	m ²	180		
	<u>PROTECTIVE WATERPROOFING TO WALLS</u>				
	<u>Prepare and apply two coats protective bitumen waterproofing to brick walls</u>				
4	Vertically to walls	m ²	105		
	<u>JOINT SEALANTS ETC</u>				
	<u>Clear silicone sealing compound</u>				
5	Point between steel windows and door frames and face of brickwork <u>Two part polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>	m	27		
6	3mm Wide x 10mm deep in saw cut joint	m	52		
7	12mm Wide x 50mm deep in walls where cracks have occurred	m	4		
8	20 x 20mm Deep in isolation joint	m	16		
9	5mm Wide x 5mm Deep in joints between tiles and sanitary fittings	m	1		
10	20mm Wide x 20mm deep in junctions between concrete soffits and brickwalls	m	65		
	<u>BUDGETARY ALLOWANCES</u>				
	<u>The following Budgetary Allowances are for work to be executed by the Sub-Contractor or specialist suppliers and priced at Bill rates or rates to be agreed and to be used as directed by the Principal Agent and to be deducted in whole or in part if not required</u>				
11	Provide the sum of R15 000.00 (Fifteen Thousand) for waterproofing requirements to existing buildings where leaking and water issues have arisen	Item		R15,000.00	R15,000.00
BILL No. 6	Bill No. 6 WATERPROOFING carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 7
Item No.	DESCRIPTION	UNIT	QUANTITY		
	<u>BILL NO. 7</u> <u>ROOF COVERINGS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Harvey roof tiles</u> Contractor to note that Harvey roof tiles to be installed by a certified and accredited Harvey roof tile installer/contractor <u>ROOF SHEETING</u> <u>Roofing sheeting shall be Kliplok 404 (or similar and approved) concealed fix profile roll-formed in continuous lengths from certified steel chromadek Z200 0.58mm complying with ISQ 550 (3T) and fixed to steel / timber purlins/girts using KL65 clips (aluminium KL65 clips to be used in conjunction with aluminium sheeting) and class 3 fasteners, in strict accordance with manufacturer's specifications by an Approved Contractor. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.</u>				
1	Roof covering with pitch not exceeding 25 degrees <u>TILES</u> <u>Harvey Thatch Roof Tiles or Similar and approved with a galvanised substrate coated with a natural stone finish on 38 x 38mm SA Pine batten trusses @ 360 C/C on timber roof structure (roof structure and trusses elsewhere measured) nailed on an underlay of 150 micron polyethylene sheeting or equal and approved with 150mm sealed laps as per manufacturers instructions</u>	m ²	444		
2	Roof coverings with pitches exceeding 25 degrees but not exceeding 50 degrees	m ²	732		
3	Circular cutting	m	10		
4	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	46		
5	Hip tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour including 200mm wide strip of 375 micron embossed damp proof <u>Flashings shall be to the manufacturer's standards or similar approved Galvanized steel Z200 0.58mm with a patent finish to one side with a Pebble Grey backing coat and fixed to the sheeting with S10 brackets or, sliding brackets at apex where roof sheets are 30m or longer, to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Transverse flashing flanges shall be form a drip. Transverse flashing flanges shall be notched to the sheet profile where necessary</u>	m	41		
6	Headwall/Counter Flash 375mm girth 3 times bent and notched on site to suit roof profile (on sloping roof)	m	141		
7	Sidewall Flash 408mm girth 2 times bent (on sloping side)	m	4		
BILL No. 7	Bill No. 7 ROOF COVERINGS carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 7
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8		Serrated top end closer 700mm girth	m	141		
		<u>ROOF AND WALL INSULATION</u>				
		<u>100mm Isover Saint-Gobain or similar and approved factorylite non-combustible flexible glass wool insulation with metalized foil backing on underside</u>				
9		Insulation laid taut over rafters (at approximately 500mm centres) and fixed concurrent with covering/tiling battens, purlins, etc, including taped laps	m ²	1176		
BILL No. 7	Bill No. 7 Roof carried to Collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 7
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		ROOF COVERINGS				
		<u>COLLECTION</u>				
		Total Brought Forward from Page No.	148			
			149			
BILL No. 7						Bill No. 7 ROOF COVERINGS carried to Summary

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 8
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 8</u> <u>CARPENTRY & JOINERY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Particle board</u> Particle board shall comply with the following specifications: a) SABS 1300 Particle board: exterior and flooring type b) SABS 1301 Particle board: interior type <u>Joinery</u> Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc. Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes. <u>Fixing</u> Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete. <u>Cappings</u> All timber beams, columns should include for metal capping's to prevent any splitting of timber. <u>Treatment of cut surfaces</u> The contractor's rates is to allow for treating all cut surfaces of timber/wooden components with approved enseat. <u>TIMBER WORK, ETC.</u> <u>Timber columns to be placed in bases, and concrete cast/poured around it in bases as per engineers specifications</u> <u>(Concrete bases measured elsewhere)</u> <u>SA Pine or similar and approved columns, beams and laths bolted in place including bolts, plates, connectors, etc. Timber columns to be treated in three coats Plascon FDR Woodcare preservative or similar and approved</u> 1 159mm Diameter columns m 10 <u>DOORS, ETC</u> <u>Contractor to allow for undercutting of internal doors when pricing</u> <u>TDM or similar and approved Semi solid door with hardwood edges all round and masonite finish to both sides to Architects specification</u> 2 Single door, size approximately 815 x 2032mm No 2 <u>EAVES , VERGES , ETC</u> <u>Fascia and barge boards</u> 3 10 x 225mm Fascias boards including galvanised steel H-profile jointing strips m 141 4 10 x 225mm Barge boards including galvanised steel H-profile jointing strips m 19				
BILL No. 8	Bill No. 8 CARPENTRY & JOINERY carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 8
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>SKIRTINGS</u>				
		<u>Hardwood</u>				
5		100 x 16mm Skirting with 5mm rounded top corner screwed and plugged	m	32		
		<u>JOINERY</u>				
		<u>COUNTER TOPS</u>				
6		32mm Thick PG Bison Formica or similar and approved top with 200mm deep x 32mm thick Formica down stand at front and on exposed side, with exposed side edges and a preformed bullnose edge , approximately 600mm wide including silicon sealant, etc. and polishing all exposed edges with 45 degree mitred joint with 2-3mm bevel on surface edge complete. Tops and down stands to be fixed to 25 x 50mm mild steel 2.5mm thick hollow section frame, finished in one coat red oxide factory supplied metal primer paint with one coat Plascon or similar and approved merit undercoat and two coats enamel paint (colour : black), at maximum 900mm centres with lugs and fixed to walls with chemical anchor bolts at suitable centres using dabs of 100% clear silicone adhesive, with all joints filled with matching polyester resin glue, all in accordance with manufacturer's and architect's specifications	m	14		
7		Extra over item for cutting out openings in vanity tops not exceeding 50mm diameter	No	1		
BILL No. 8	Bill No. 8 CARPENTRY & JOINERY carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 8
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		CARPENTRY & JOINERY <u>COLLECTION</u> Total Brought Forward from Page No.	151 152			
BILL No. 8	Bill No. 8 CARPENTRY & JOINERY carried to Collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 9
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 9</u> <u>CEILINGS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>THATCHED CEILING</u> <u>"Correx" Cape Reed or similar and approved ceiling boards 1220 x 2440 x 10mm in size nailed directly on roof timber members above using binding strips (timber roof measured separately), ensuring all nails/screws are driven all the way into binding strip as per architects and manufacturers specifications. treated in Micon coating Thatchsayf or similar and approved finish including all nails, strips connectors etc.</u>				
1	Thatched ceiling fixed to underside of roof structure <u>SUSPENDED CEILINGS</u> <u>600 x 1200 x 9mm Thick Pelican or similar and approved Econolite foil backed ceiling tiles with vinyl face finish laid onto Pelican Econogrid pre-painted white exposed tee grid system including fire safety punch outs, with main tees suspended by means of 19 x 0.5mm GMS strap/2.5mm wire hangers at 1200mm centres as per manufacturers specifications</u>	m ²	381		
2	Ceilings suspended not exceeding 1m below concrete soffits/roof structure <u>Edge trim to flush plastered ceilings</u>	m ²	43		
3	Pelican system or similar and approved PS1 aluminium shadow line ceiling trim fixed to walls	m	27		
BILL No. 9	Bill No. 9 CEILING carried to summary				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 10
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 10</u> <u>IRONMONGERY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: SS Stainless Steel BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded Unless otherwise stated ironmongery is to be the manufacture's standard corrosion resistant ironmongery for the particular product ranges. Installed to Architects specification Surface finishes should be restricted to polished chrome or satin chrome on all approved ironmongery for external and internal doors " unless otherwise stated. <u>LOCK SETS, HANDLES, CYLINDERS, FLUSH BOLTS ETC.</u> 1 Union/Assa Abloy Sable lever door handles per pair (Code - AL65A63) or similar and approved No 2 2 Union/Assa Abloy morticed lock (Code - 23315) Euro cylinder sash lock or similar and approved No 2 3 Union/Assa Abloy (Code - 23315) Euro cylinder sash 2 x 18 Euro profile double cylinder complete with three keys or similar and approved No 2 4 152 x 76mm modular backplate suitable for Euro profile cylinder Lock or similar and approved No 2 <u>SUNDRIES</u> 5 Union/Assa Abloy Euro profile double cylinder complete (Code - AL8730AS) floor mounted door stop to each door leaf or similar and approved No 2 <u>BUDGETARY ALLOWANCES</u> <u>The following Budgetary Allowances are for work to be executed by the Main Contractor or specialist suppliers and priced at Bill rates or rates to be agreed.</u> 6 Provide the sum of R30 000.00 (Thirty Thousand Rand) for the supply, delivery and installation of general and fire signage Item R30,000.00 R30,000.00				
BILL No. 10	Bill No. 10 IRONMONGERY carried to summary				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE			Bill 11
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 11</u>				
	<u>METALWORK</u>				
	<u>PRESSED STEEL DOOR FRAMES (SANS 1129)</u>				
	<u>1,2mm Mild steel double rebated single door frame suitable for 110mm/220mm walls. Door frame to be supplied complete with 1 pair hinges, lugs, strike plate and rubber buffers as supplied by the manufacturer.</u>				
1	Door frame for door size 815 x 2032mm with two 100mm steel butts and slotted for lock strike	No	2		
	<u>MILD STEEL WINDOWS</u>				
	<u>Standard profile steel windows with 4mm thick clear float glass in black neoprene gaskets with matching aluminium square beading plugged to brickwork, concrete, etc</u>				
2	Window overall size 1511 x 654mm high	No	4		
	<u>BURGLAR BARS</u>				
	<u>Burglar bars to windows consisting of frame of 40mm x 10mm thick galvanised mild steel flat bar bolted to internal reveal of brick wall, with bars of 12mm Diameter mild steel round bar welded to flat bar frame at maximum 120mm centres All powder coated (colour to Architects specification)</u>				
3	Burglar bars for window size 1511 x 654mm high	No	4		
	<u>BLINDS</u>				
	Note: The pricing of all blinds to include all necessary support work				
	<u>Canvas Corporation or similar and approved frameless exterior quality UV resistant roller blinds fixed to purpose made steel supports above including all connections etc.</u>				
4	Blinds for opening size approximately 3660 x 2645mm high	No	7		
	<u>BRAAI STRUCTURE</u>				
	<u>2 x Jet Master or equal and approved 1200 built in UNI mild steel braai structure with flue and mild steel rotating cowl including nickel-plated grill, charcoal tray, light fittings and slide-in and under reinforced door with handle and locking eyes</u>				
5	Braai unit	No	2		
	<u>SUNDRIES</u>				
	<u>Holding down bolts</u>				
6	M16 HVU chemical anchor bolts 400mm long including nuts and washers	No	64		
	<u>BUDGETARY ALLOWANCES</u>				
	<u>The following Budgetary Allowances are for work to be executed by the Main Contractor or specialist suppliers and priced at Bill rates or rates to be agreed.</u>				
7	Provide the sum of R30 000.00 (Thirty Thousand) for chimney cowl and general items still to be specified etc.	Item		R30,000.00	R30,000.00
BILL No. 11	Bill No. 11 METALWORK carried to Summary				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 12
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 12</u> <u>STRUCTURAL WORK</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>1. Shop drawings</u> The contractor will be required to prepare shop details for the work which must be submitted to the Engineer for approval before fabrication is started. Approval of shop details by the Engineer will include the following: a) Examination of member sizes for consistency with design requirements, b) Examination of all connections designed and/or detailed by the fabricator, for adequacy of load trasference, c) Approval of leading dimensions which are taken to include such dimensions as may influence the design (eg, depth of trusses and girders) or which may grossly affect site programme (eg, truss spans and stanchion heights). Notwithstanding any approval of these details, the contractor shall remain responsible for ensuring that the dimensions, details and workmanship result in the correct assembly of the work. <u>2. Material and workmanship</u> The steelwork is to be fabricated from mild steel to SANS 1431 Grade 350W. The whole of the fabrication and workmanship generally is to be in strict accordance with SANS 0162-1984 as amended. The material shall be of best quality throughout, free from loose rust or millscale, true to thickness and profile throughout and of the section and mass specified subject to a 2% tolerance for rolling margin. Consideration will be given to any detail variation which the contractor may wish to make with the view to the simplification of either fabrication, delivery or erection. Substitutions must be made at the contractor's own expense. The contractor shall provide Works Test Certificates where so required by the Engineer. <u>3. Testing</u> The Engineer shall be at liberty to select test pieces from steelwork in the workshop or on the site and to have them tested. The expense of such tests are to be borne by the contractor if the steelwork does not comply with the standards laid down above. <u>4. Hold down bolts</u> Holding down bolts and other fixing devices which are to be embedded in concrete must be supplied to the principal contractor on request together with the necessary information, identification and templates. 2mm Mild steel plate templates provided on a scale of one template for every five groups of bolts, suitably marked to ensure easy identification are to be supplied to the principal contractor. Any costs incurred by subsequent repositioning of bolts, etc. resulting from the contractor having failed to furnish adequate information, identification and templates will be for the contractor's account.				
BILL No. 12	Bill No. 12 STRUCTURAL WORK carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 12
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>5. Welding</u> Welding shall be in accordance with SABS 044 "Welding: Parts I, II and III", E70XX Welding shall be carried out in a manner which will prevent any distortion of the weld or the parent section. All welds shall have adequate root fusion and shall be free from cracks, porosity or other irregularities and any undercutting shall be made good by the deposition of additional runs of weld metal. Any completed welds showing cracks, cavities or other effects shall be cut out and made good at the contractor's own expense. Mild steel electrodes shall comply with SABS 455 "Covered Electrodes for Manual Arc Welding of Mild Steel and Medium High Tensile Steel". <u>6. Bolts</u> Bolts shall have well-formed heads forged from the solid. Nuts shall closely fit the bolts so that they can only just be turned by hand and at least one clear thread shall project beyond the nut when fully tightened. All bolts shall have one washer under the nuts and shall be so tightened that the threaded portion does not bear on the members connected. Where bolt heads or nuts bear upon bevelled surfaces they shall be provided with tapered washers of 2,3 mm mean thickness to provide a seating square with the axis of the bolt. <u>7. Friction grip bolts</u> Connections specifying high strength friction grip bolts are to be in strict accordance with SABS 094 "Bolted Friction Grip Joints in Structural Steelwork" and the bolts used are to be in accordance with BS 3139 Part 1 : 1959 "General Grade Bolts, High Strength Friction Grip Bolts for Structural Engineering" Notwithstanding the above, the following must be rigidly adhered to : a) Two-case hardened washers, one flat or bevelled under the head and the other flat or bevelled under the nut shall be used with each bolt. b) Contact surfaces shall not be painted and shall be thoroughly cleaned free of dirt, oil, loose scale, burrs and other defects which are liable to reduce friction resistnace between surfaces. c) At all times the correct torques shall be applied to the different sizes of bolts. <u>8. Erection</u> The steelwork generally is to be fabricated in the contractor's works having due regard to transport and erection facilities. He must supply all erection tackle, temporary erection bracing, erect and plumb all steelwork and supply all steel wedges and tacks as required. Items may be detailed for delivery "piece small" or the contractor may prefabricate if he is satisfied that suitable arrangements for transport can be made. Connections are to be designed for the forces indicated on the drawings or to the maximum capacity of the members.				
BILL No. 12	Bill No. 12 STRUCTURAL WORK carried to collection					

CONTRACT NUMBER: GS40/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 12
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>9. Cleaning and painting</u> All structural steel is to be thoroughly degreased to remove all grease or oil and then wire-brushed, scraped or sand-papered to remove all rust, mill-scale or surface contaminations and is to be immediately given one coat zinc chromate, allowed to dry overnight and given one coat of universal undercoat prior to delivery to site. All damaged paintwork is to be made good on site after erection is complete. (also refer to 12 below) All structural steel pricing is deemed to include for paint work. <u>10. Testing of welders</u> Tenderers must include in their rates for the testing of any welder used on the work who has not been tested within a period of six months immediately preceding his employment on this contract. <u>11. Further notes</u> Also refer to the structural steelwork notes indicated on the Engineer's relevant structural drawings. <u>12. Painting/corrosion protection options</u> Painted Steelwork"" All steelwork below surface to be painted with two layers of bitumen paint"" All steelwork surfaces to be painted and must be free of mill shale, corrosion, grease or dust"" All steelwork to be cleaned with wire brush in accordance with SABS 1200HC prior to coating"" All structural steel shall be hot-dip galvanised to SANS 121/ISO 1461 (Heavy Duty Application) "" All steelwork exposed surfaces to be coated with two layers of alkyl enamel paint as final coat (dark charcoal colour to architect specification) <u>STEEL COLUMNS, BEAMS, POSTS, ETC. (PAINTED)</u> <u>Galvanised welded beams/columns in single lengths with flat section bearer and connection plates bolted to columns and all necessary fittings, etc.</u> 1 150 x 75 x 20 x 2.5mm Cold formed lipped channels t 2 2 152 x 152 x 23kg/m H-Section beams t 0.3 3 203 x 133 x 25kg/m I-section beams t 4.4 4 254 x 146 x 31kg/m I-section columns t 1.1 5 70 x 70 x 6mm Thick angle t 0.4 <u>SUNDRIES</u> <u>BOLTS, FASTENERS, ETC</u> 6 High strength M20 HD grade 8.8 bolts No 48				
BILL No. 12	Bill No. 12 STRUCTURAL WORK carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 12
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		STRUCTURAL WORK				
		<u>COLLECTION</u>				
		Total Brought Forward from Page No.	157			
			158			
			159			
BILL No. 12	Bill No. 12 STRUCTURAL WORK carried to Summary					

CONTRACT NUMBER: CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE G540/2024					Bill 14
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 14</u> <u>TILING</u> <u>Patterns</u> Unless otherwise described, tiles shall be laid with continuous joints in both directions <u>Fixing</u> Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles <u>Sealant</u> Rates to include for white silicone sealant to be applied between all sanitary fittings and tile finishes <u>WALL TILING</u> <u>300 x 300 x 5mm thick Glazed ceramic wall tiles (PC amount R 250.00 / m2, excluding VAT, but including delivery) fixed to wall plaster with Pro Grip adhesive mixed with approved bonding liquid in lieu of water 3mm joints continuous in one direction and half length staggered in the other direction and grouted with approved anti bacterial & chemical resistant epoxy tile grout.</u>				
1	On walls	m ²	5		
	<u>Sundries: Genesis or similar and approved</u>				
2	Brushed aluminium straight edge trim size approximately 10/12mm wide x thickness of tile to exposed wall tile edges, corners, etc. as per Architects detail and specification	m	7		
BILL No. 14	Bill No. 14 TILING carried to summary				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 15
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 15</u> <u>PLUMBING & DRAINAGE</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Sealing of edges</u> Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone <u>ROOF GUTTERS, RAINWATER PIPES, ETC</u> <u>Aluminium powder coated seamless gutter, overall size 100 x 100 x 0,6mm thick coated internally and externally including cut and mitred angles covered with a mitre strip externally, stop ends crimped and all sealed on the inside with silicone sealer, secured to fascia with 20 x 2,5mm internal hanger brackets at 600mm centres using pop rivets, etc.</u>				
1	100 x 100 x 0,6mm Thick seamless gutter	m	56		
2	Extra over gutter for corners	No	6		
3	Extra over gutter for stop ends	No	7		
4	Extra over gutter for outlets	No	7		
	<u>100mm Diameter thick aluminium powder coated downpipe fixed to wall with straps at 1500mm centres using nail plugs, with downpipes riveted and silicone sealed to gutter outlets, including all necessary bends, elbows, shoes etc.</u>				
5	100mm Diameter thick aluminium downpipe	m	16		
6	Extra over downpipe for shoe	No	5		
7	Extra over for 300mm offset projection	No	5		
	<u>SANITARY FITTINGS</u>				
8	Franke Projectline PLN 621 polished stainless steel double end bowl inset sink, overall size approximately 1160 x 460mm with two 140mm deep bowls, including 38mm waste fittings, with Marley or similar and approved double drain black rubber deap seal P-trap with a T-Junction and elbow, neatly penetrated through any shelving and concealed below counter, to be installed completer onto counter top as specified by Architects detail and specification	No	1		
	<u>TAPS, VALVES, ETC</u>				
9	Cobra Watertech (Code 166/041/1CA) or similar and approved Carina wall mounted sink mixer tap with swivel outlet supplied complete with concealed connections and flange cover plates including under counter Cobra Watertech (Code 628CA-20) or similar and approved Carina under wall stop taps for hot and cold water	No	1		
10	Cobra watertech (Code 232-10) or similar and approved angle regulating valve with sliding flange in chrome finish	No	1		
11	Cobra Watertech or similar and approved braided flexible inlet tubing, blue and red	No	1		
12	Cobra Watertech (Code 311) or similar and approved unslotted sink waste complete with plug, flange, shank, male outlet, connection and backnut in chrome finish	No	1		
BILL No. 15	Bill No. 15 PLUMBING & DRAINAGE carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 15
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
13		Precast concrete gulley size approximately 445 x 430 x 165mm with 125mm diameter hole with PVC grid cover per gully position including underground 110mm PVC gulley P-trap exceeding 500mm and not exceeding 750mm deep <u>PLUMBING</u> <u>Sanitary plumbing & water supply (measured per point)</u> <u>Provide all necessary in class II copper piping, branches, pipe fittings, valves as required for cold water supply from main water supply point at perimeter of building to the following sanitary fittings, complete</u> <u>Provide all necessary in class II copper piping, branches, pipe fittings, valve all insulated with an R-value of "1" and as required for hot water supply from central geyser/hot water supply to the following sanitary fittings, complete</u> <u>Provide 50/75mm PVC waste piping to the following sanitary fittings to be discharged into 110mm HDPE sub surface soil piping on the same level (elsewhere) or current stack system where shown, including any necessary fittings, trenches complete</u>	No	1		
14		Sink (hot and cold water and waste)	No	1		
15		Geyser/Hot water supply	No	1		
		<u>ELECTRIC WATER HEATERS</u>				
16		Kwikot or similar and approved 50 Litre Superline 400 Dual electric water heater (Code: DSG-50-5) complying with SABS 151-2002, overall size 535 x 543mm high fitted with isolator switch, operating at 400kPa temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 600 x 600mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code: GSTP-1200) and 22mm pipe work including two 22mm vacuum breakers (Code: KHN4.200CX) installed on hot and cold water supply. Installation to include a Kwikot Multi control and expansion relief valve, all in accordance with SANS 10254, connected to single phase electrical power supply. <u>TESTING</u>	No	1		
17		Testing water pipe system (per building) <u>BUDGETARY ALLOWANCES</u> <u>The following Budgetary Allowances are for work to be executed by the Main Contractor or specialist suppliers and priced at Bill rates or rates to be agreed.</u>	No	1		
18		Provide the sum of R15 000.00 (Fifteen Thousand) for additional general work sill to be designed and will/may be carried out by the contractor	Item			R15,000.00
BILL No. 15	Bill No. 15 Plumbing carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 16
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 16</u> <u>PAINTWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> All surfaces to be thoroughly prepared according to manufacturers' specifications. The quality of all preparation work and individual coats shall be to the satisfaction of the Architect (or his appointed representative) before any successive paintwork is undertaken. All paint to new and existing surfaces are to be painted with Plascon, Dulux or similar approved (by Architect). <u>Plastered surfaces, etc.</u> Plastered surfaces shall be thoroughly inspected and, if necessary, washed down and brushed in order to remove any traces of efflorescence and allowed to dry completely before any paint finish is applied. Before any paint is applied, holes, cracks and irregularities in plaster and other surfaces shall be filled with a suitable filler and finished smooth. Unfinished concrete surfaces shall have all projections rubbed off and shall be thoroughly cleaned with a spirits-of-salts solution (1 part concentrated spirits-of-salts to 4 parts water). <u>Previously painted plastered surfaces</u> Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth. <u>Previously painted plasterboard surfaces</u> Surfaces shall be thoroughly cleaned before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth. Steel H-strips and nails to be reprimed with calcium plumbate primer. <u>Previously painted metal surfaces</u> Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal. <u>Previously painted wood surfaces</u> Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth. Existing wood surfaces to be stripped, neutralised, sanded and treated. <u>PAINTWORK ETC TO PREVIOUSLY PAINTED/NEW WORK</u> <u>ON SKIMMED PLASTER</u> <u>Prepare, apply one coat suitable plaster primer to entire surface, one coat Plascon acrylic polvin paint and finish with two coats of Plascon super acrylic polvin Matt paint in compliance with SANS specifications (or similar and approved)</u>				
1	On internal plastered walls	m ²	240		
2	On narrow widths	m ²	4		
BILL No. 16	Bill No. 16 PAINTWORK carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 16
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3		<u>Prepare, apply one coat suitable plaster primer to entire one coat Plascon acrylic polvin paint or similar and approved and finish with two coats of Plascon super acrylic polvin Matt paint in compliance with SANS specifications or similar and approved</u> On external brick plastered walls and columns <u>ON METAL</u> <u>Prepare one coat Plascon mild or similar and approved steel red oxide primer, one coat merit universal undercoat and two coats gloss enamel paint undercoat, and two coats Plascon gloss enamel paint</u>	m ²	103		
4		On new steel windows	m ²	8		
5		On burglar bars measured net	m ²	8		
6		On new steel doors and frames	m ²	2		
		<u>ON WOOD</u>				
		<u>Prepare one coat Plascon wood primer, Pink undercoat, on White coat merit universal undercoat, (or similar and approved)</u>				
7		On timber doors	m ²	7		
		<u>Prepare three coats Plascon FPR Woodcare preservative Woodcare preservative (or similar and approved)</u>				
8		On existing and new timber roof structures measured net	m ²	177		
		<u>Prepare one coat Plasconwood primer, Pink undercoat, one coat merit universal undercoat, White undercoat, and two coats Plascon gloss enamel paint (or similar and approved)</u>				
9		Skirtings not exceeding 300mm girth	m ²	32		
		<u>Prepare, two coats gloss enamel paint</u>				
10		Fascias and barge boards not exceeding 300mm girth	m ²	160		
BILL No. 16	Bill No. 16 PAINTWORK carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 16
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		PAINTWORK				
		<u>COLLECTION</u>				
		Total Brought Forward from Page No.	166			
			167			
BILL No. 16	Bill No. 16 PAINTWORK carried to Summary					

CONTRACT NUMBER: CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE G540/2024					Bill 17
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 17</u> <u>SITE WORKS AND DEMOLITIONS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>REMOVAL OF EXISTING WORK</u> <u>SPECIAL PREAMBLES</u> <u>REMOVE</u> The term "remove" shall mean breaking out as required to remove the item described, disposal of all rubble and old materials, and making good all work disturbed to match existing. Remove walls or partitions shall mean breaking down complete to structure of walls, etc. and trimming up edges and disposal of rubble and all old materials from site (old materials as elsewhere described). Prices shall include for protecting adjacent surfaces repairing such damage should it occur. <u>OLD MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR</u> Old material from the alterations except where described for re-use or handing over, will become the property of the Contractor for which Credit must be allowed. <u>OLD MATERIAL MUST BE CARTED AWAY</u> Old material from the alterations except where described for re-use or handing over, as well as all debris must regularly be carted away from site and not be accumulated on site. <u>OLD MATERIAL MAY NOT BE RE-USED</u> No old material may be re-used for new work except where it is specifically described as set aside for re-use. <u>DISPOSAL OF DEBRIS, ETC</u> The Contractor shall be responsible for the removal from the site of all materials, debris and rubbish resulting from the alterations/demolitions. <u>GENERAL</u> <u>Damage To Persons And Property</u> All demolitions, pulling down, alterations etc., are to be carried out carefully and in the safest possible manner. The Contractor is to ascertain that all alterations are structurally practicable and safe and he will be held solely responsible for any damage to property or work adjoining the pulling down and must make good at his own expense. <u>Programming Of The Works</u> The programming of demolitions and alterations will have to be co-ordinated with the Principal Agent.				
BILL No. 17	BILL No. 17 SITE WORKS AND DEMOLITIONS carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 17
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Care Of Utility Services</u> Special care is to be exercised not to interfere with any drains, electrical supply, data, or telephone cables and fittings to same. Notice is to be given to the Principal Agent when any disconnections, removal of wires etc. are necessary and the Contractor is to afford every facility to the workmen carrying out this work. Permission must be obtained from the Principal Agent before any services are cut off at any time. <u>Temporary Shoring Etc.</u> Prices are to include for providing, fixing and maintaining in position generally as required all temporary shoring, needling, strutting etc., necessary for the proper execution of the alterations in this Contract and for removing same. <u>Supervision</u> The demolition work is to be executed in a workmanlike, practical and safe manner under the continual supervision of a competent foreman. <u>Nature of ground</u> A soils investigation has been carried out on site by the engineer and the report is available upon request. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured <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>Subterranean water</u> The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefore in his prices. <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 and layer work materials</u> References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials, TRH 14:1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter <u>Testing</u> Descriptions & prices for earth filling, compaction, etc. are deemed to include for all necessary density and other testing required in accordance with the SABS 1200 series and Engineer's specifications				
BILL No. 17	BILL No. 17 SITE WORKS AND DEMOLITIONS carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 17
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>SITE CLEARANCE ETC</u>				
		<u>Site clearance</u>				
1		Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m²	310		
2		Stripping average 150mm thick layer of top soil and stockpile on site	m²	310		
		<u>REMOVAL OF TREES ETC</u>				
		<u>Cutting down and removing, grubbing up roots and filling in holes</u>				
3		Tree exceeding 200mm and not exceeding 500mm girth	No	3		
4		Tree exceeding 500mm and not exceeding 1000mm girth	No	3		
5		Tree exceeding 1000mm and not exceeding 1500mm girth	No	3		
6		Tree exceeding 1500mm and not exceeding 2000mm girth	No	5		
		<u>BULK EXCAVATION, FILLING, ETC</u>				
		<u>G5 Earth filling supplied by the contractor compacted to 98% MDD</u>				
7		Over site to form platforms	m³	121		
		<u>G5 Earth filling to create stormwater berm with overall size 500mm wide top section, 3500mm wide bottom section and 1:3 slope supplied by the contractor compacted to 95% MDD as per engineers design and specifications</u>				
8		Over site to form stormwater berm	m³	88		
		<u>G6 Earth filling supplied by the contractor compacted to 95% MDD, to Engineers approval</u>				
9		Over site to form platforms	m³	47		
		<u>G7 Earth filling supplied by the contractor compacted to 95% , to Engineers approval</u>				
10		Over site to form platforms	m³	56		
		<u>Compaction of surfaces</u>				
11		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% MDD	m³	464		
		<u>BUDGETARY ALLOWANCES</u>				
		<u>The following Budgetary Allowances are for work to be executed by the Main Contractor or specialist suppliers and priced at Bill rates or rates to be agreed and to be used as directed by the Principal Agent and to be deducted in whole or in part if not required</u>				
12		Provide the sum of R50 000.00 (Fifty Thousand Rands) for work related to unknown circumstances of the site condition	Item			R50,000.00
BILL No. 17	BILL No. 17 SITE WORKS AND DEMOLITIONS carried to collection					

CONTRACT NUMBER: CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 18
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 18</u> <u>ROADWORKS, PAVING</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground</u> A soils investigation has been carried out on site by the engineer and the report is available upon request. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured. <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 and disposing of same from site. <u>Subterranean water</u> The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefore in his prices. <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 and layer work materials</u> References such as "G1", "G2", etc and "C1", "C2", etc in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter <u>Testing</u> Descriptions & prices for earth filling, compaction, etc. are deemed to include for all necessary density and other testing required in accordance with the SABS 1200D and Engineer's specifications <u>General</u> Where kerb-stones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming <u>EXCAVATION, FILLING, ETC. OTHER THAN BULK</u> <u>Excavation in compacted earth not exceeding 2m deep</u> 1 Reduce levels m³ 856 <u>Extra over all excavations for carting away</u> 2 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor m³ 856				
BILL No. 18	Bill No. 18 ROADWORKS, PAVING carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 18
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Compaction of surfaces</u>				
3		Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% MDD density	m ²	1878		
		<u>G5 Earth filling supplied by the contractor and compacted to 95% MDD density</u>				
4		Under floors, steps, ramps, pavings, etc	m ³	282		
		<u>G6 Earth filling supplied by the contractor and compacted to 93% MDD</u>				
5		Under floors, steps, ramps, pavings, etc	m ³	564		
		<u>WEED KILLERS, INSECTICIDES, ETC</u>				
		<u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasion 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m²</u>				
		<u>Soil insecticide in accordance with SANS 5859</u>				
		<u>Approved brand of anti-termite soil poison and weedkiller to be applied by a Registered Company and guaranteed for ten years</u>				
6		Under paving	m ²	1878		
		<u>PAVING, KERBING AND CHANNELLING</u>				
		Rates for paving must include all cutting including circular cutting				
		<u>SEGMENTED PAVING</u>				
		<u>200 x 150 x 60mm Thick Bosun Ethnic cement paver or similar and approved interlocking paving brick, laid in herringbone pattern in accordance with SANS 1200 MJ and CMA Concrete Block Paving Manuals, with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 20mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subbase conforming to SANS 1200 D Degree of Accuracy (sub-base elsewhere measured) 1. Paving to be inspected and re-sanded after three months.</u>				
7		Paving to walkways, roads, parking areas etc.	m ²	1805		
8		300mm Wide header course paving to make up paving borders	m	245		
		<u>KERBS</u>				
		<u>Figure 7 Barrier concrete kerb, including in-situ concrete (class 25MPa/19mm stone) haunching behind kerbing at joints, with pointing on all exposed sides, including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching in blobs on straights, etc. Jointed & pointed in joint sealant with 10mm soft board and polyurethane sealant with approved primer</u>				
9		Laid flat	m	161		
10		Laid flat circular on plan, exceeding 4m radius	m	7		
BILL No. 18	Bill No. 18 ROADWORKS, PAVING carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 18
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Figure 10 Precast concrete kerb, including in-situ concrete (class 25MPa/19mm stone) haunching behind kerbing at joints, with pointing on all exposed sides, including all necessary excavation backfilling, carting away, continuous concrete haunching on curves, concrete haunching in blobs on straights, etc. Jointed & pointed in joint sealant with 10mm soft board and polyurethane sealant with approved</u>				
11	Laid flat		m	533		
		<u>Prepare and paint with SANS approved road marking paint in white / yellow / red sheen road marking paint on concrete paving / kerbs</u>				
12	Line 100mm wide, broken or continuous		m	620		
13	White numeral or letter approximately 510mm x 1260mm (measured at extremes)		No	51		
14	White traffic arrow approximately 1000mm x 4000mm (measured at extremes)		No	12		
15	Paraplegic Sign approximately 1300mm x 1400mm (measured at extremes)		No	3		
		<u>BUDGETARY ALLOWANCES</u>				
		<u>The following Budgetary Allowances are for work to be executed by the Main Contractor or specialist suppliers and priced at Bill rates or rates to be agreed and to be used as directed by the Principal Agent and to be deducted in whole or in part if not required</u>				
16	Provide the sum of R15 000.00 (Fifteen Thousand Rands) for permanent road signage		Item			R15,000.00
17	Provide the sum of R50 000.00 (Fifty Thousand Rands) for additional general work sill to be designed and will/may be carried out by the contractor		Item			R50,000.00
18	Cement for roadbed stabilisation (4% of 150mm layer ≈ 20kg/m²)		ton	30		
19	In-situ stabilisation of roadbed using 4% cement, 150mm thick, incl. mixing & compaction		m³	200		
BILL No. 18	Bill No. 18 ROADWORKS, PAVING carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 18
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	ROADWORKS, PAVING <u>COLLECTION</u> Total Brought Forward from Page No.		173 174 175			
BILL No. 18	Bill No. 18 ROADWORKS, PAVING carried to Summary					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 19
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 19</u> <u>FENCING AND GATES</u> <u>METAL FENCING</u> <u>High density anti-climbing and anti-cut pressed mesh panel fencing</u> Fencing to be installed on a sloping site, Contractor to allow for additional vertical supporting members at smaller intervals along a sloping site				
1	High density anti-climbing and anti-cut pressed mesh panel fencing 2,4m high, formed of 3mm diameter horizontal and 3mm diameter vertical high tensile wires powder coated charcoal with aperture size 76mm x 25mm and reinforcing V-section ribs, bolted with vandal resistant bolts and clamping plates to 76mm x 76mm x 2mm mild steel posts 3,0m high including Locking Recess Mechanism at 3,382m centres with sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 400 x 400 x 600mm deep.	m	56		
2	Mesh Extension 600mm high fixed to underside of fencing including excavations and bedding	m	56		
3	Extra over fence for spike topping to match fence	m	56		
	<u>GATES</u> <u>Vehicle Sliding Gate to match fencing</u>				
4	9900mm Wide x 2600mm high mild steel sliding gate with 120 x 60mm rectangular tubing frame. Frame to have three vertical 120 x 60mm rectangular tubing supports spaced equally inside frame. Frame infill panels to be 4mm diameter vertical and 3mm diameter horizontal mesh with opening of 76 x 12mm. The mesh panel shall be reinforced with 4 x 50mm deep V-information horizontal recessed bands. All to be galvanised then powder coated colour: dark charcoal to match window frame as per Architects detail. Including galvanised pad bolts and mortice locks two per gate. Gate to be supported by three steel roller brackets positioned underneath each vertical support member, each with 2 x 80mm dia steel rollers. All as per Architect's details and specifications	No	1		
5	Extra over above for gate rail to be 19mm diameter steel bar welded to a 100x50mm IPE steel sections anchored into a 300mm deep concrete bedding using a 40x40mm steel angle welded to the IPE section at 300mm c/c. All as per Architect's detail and specifications	No	1		
6	100mm High toughened steel shark-tooth spike rail to be fixed to the top of the gate using anti-vandal bolts. Spike finish to match fencing.	m	11		
7	Supply and install gate motor and remotes to Engineers approval	No	1		
	<u>Pedestrian Gates to match fencing</u>				
8	2.6m high x 1.5m wide mild steel pedestrian gate with 100 x 50mm rectangular tubing frame. Frame infill panel to be 4mm diameter vertical and 3mm diameter horizontal mesh with openings of 76 x 12mm. The mesh panel shall be reinforced with 4 x 50mm deep V-formation horizontal recessed bands. All to be galvanised then powder coated colour: dark charcoal to match sliding gate All as per Architect's details and specifications. Including galvanised pad bolts and mortice locks two per gate	No	1		
BILL No. 19	Bill No. 19 FENCING AND GATES carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 19
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9		2.1m high x 3m wide mild steel double swing pedestrian gate with 100 x 50mm rectangular tubing frame. Frame infill panel to be 4mm diameter vertical and 3mm diameter horizontal mesh with openings of 76 x 12mm. The mesh panel shall be reinforced with 4 x 50mm deep V-formation horizontal recessed bands. All to be galvanised then powder coated colour: dark charcoal to match sliding gate All as per Architect's details and specifications. Including galvanised pad bolts and mortice locks two per gate	No	1		
10		100mm High toughened steel shark-tooth spike rail to be fixed to the top of the mesh panel using anti-vandal bolts.Spike finish to be hot dipped galvanised	m	5		
BILL No. 19	Bill No. 19 FENCING AND GATES carried to collection					

CONTRACT NUMBER: CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE G540/2024 INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 19
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	FENCING AND GATES <u>COLLECTION</u> Total Brought Forward from Page No.		177 178			
BILL No. 19 Bill No. 19 FENCING AND GATES carried to Summary						

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 20
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 20</u> <u>WATER RETICULATION</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>uPVC pipes and fittings</u> <u>Exposed concrete surfaces</u> Exposed surfaces of concrete storm water channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster. <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturer's instructions exist pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200 L: Medium pressure pipelines LD: Sewers LE: Storm water drainage Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be ClassB bedding. Bedding must be selected granular material (specify SABS 1200 LB class B material) minimum 100mm thick on top and bottom of pipe compacted to 90% MDD. Selected fill blanket according to SABS 1200LB; selected fill material shall be material that has a PI not exceeding 6 and that is free from vegetation and from lumps or stone of diameter exceeding 30mm. In 150mm layers compacted to 90% MDD. Fill blanket is above the bedding and 200mm thickness. In 150mm layers compacted to 90% MDD. <u>General</u> Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, selected backfilling material, risk of collapse, working space, compaction to a minimum of 95% Mod AASHTO density in layers of 150mm and disposal of surplus material on site <u>As-built drawings</u> 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) <u>WATER RETICULATION</u> <u>HDPE Pipes</u>				
1	32mm HDPE class 16 water pipes (pipes complete with couplings, spigots, sockets, fittings, adapters, etc.) laid in trenches exceeding 1m not exceeding 1.5m deep including all sockets, fittings, adapters, excavation, bedding, backfilling and compaction and disposal of surplus material	m	41		
BILL No. 20	Bill No. 20 WATER RETICULATION carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 20
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Extra over HDPE Class 12 pipes for fittings</u>				
2		32mm 45 degree bend	No	8		
3		32mm 90 degree bend	No	4		
4		32mm Tees	No	7		
5		32mm Stop end	No	4		
		<u>Sundries</u>				
6		30 MPa/19mm Unreinforced concrete in thrust blocks in trenches at bends, tees, etc including extra excavation, formwork, etc	m ³	3		
7		Pipeline markers complete including SAPMA affiliation, pipe OD & OD tolerance, wall thickness, nominal pressure, pipe class, etc. as per Engineers detail and specification	No	3		
		<u>Water Meter</u>				
8		Supply and install bulk water meters (PC amount R 15 000.00, excluding VAT, but including delivery) (Johannesburg Water Approved) installed in valve chamber, chamber elsewhere measured, complete with all necessary fittings, bends, tees, flanges, couplings, finishes, etc. as per Engineers detail and specifications	No	1		
		<u>Connecting to Existing Pipelines</u>				
9		Connecting new HDPE 40mm diameter to existing water pipes including all necessary fittings	No	1		
		<u>Connecting to new water supply points</u>				
10		Connecting new HDPE 25/32mm diameter to water pipes leading into building including all necessary fittings	No	2		
		<u>Excavate and Build Valve Chamber</u>				
11		Excavate in compacted earth for building Valve Chamber, size approximately 1235mm x 1235mm not exceeding 1000mm deep externally constructed with 230mm brick wall sides built in engineering bricks with 150mm thick 25Mpa in-situ concrete base and cover slab, fitted with 610mm x 305mm x 150mm cast iron hydrant box with lid with slotted hole for lifting key. Excavation to include all backfilling, compaction, working space, formwork, reinforcing, etc. all as per Engineers details and specifications	No	1		
12		Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m ³	3		
		<u>Gate/Isolation Valves in Chambers</u>				
		<u>Resilient seal gate valves. Specifications to SABS 664</u>				
		<u>Resilient seal gate valve fitted to flange adaptors</u>				
		1 <u>Clockwise closing</u>				
		2 <u>Non rising spindle</u>				
		3 <u>Anti-clockwise closing</u>				
		4 <u>A removable coupling must be provided at one side of the valve at least 500mm from the shaft.</u>				
13		50mm Gate/Isolation Valve in chamber (chamber elsewhere measured) to water main as per Engineers detail and specification	No	1		
14		50mm Non-Return Valve in chamber (chamber elsewhere measured) to water main, complete including all couplings, flanges, etc. as per Engineers detail and specification	No	1		
BILL No. 20	Bill No. 20 WATER RETICULATION carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 20
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
15	<u>Testing</u> Provide all necessary testing apparatus, water, materials, etc. and allow for testing and chlorination of water reticulation system to the satisfaction of the Representative. All defective work shall be taken out and replaced at the Contractor's expense and the whole re-tested until found perfect		Item	1		
	<u>BUDGETARY ALLOWANCES</u> <u>The following Budgetary Allowances are for work to be executed by the Main Contractor or specialist suppliers and priced at Bill rates or rates to be agreed and to be used as directed by the Principal Agent and to be deducted in whole or in part if not required</u>					
16	Provide the sum of R25 000.00 (Twenty Five Thousand Rands) for municipal connection fees		Item			R25,000.00
17	Provide the sum of R35 000.00 (Thirty Five Thousand Rands) for additional general work still to be designed and will/may be carried out by the contractor		Item			R35,000.00
BILL No. 20	Bill No. 20 WATER RETICULATION carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 20
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	WATER RETICULATION <u>COLLECTION</u> Total Brought Forward from Page No.		180 181 182			
BILL No. 20	Bill No. 20 WATER RETICULATION carried to Summary					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 21
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 21</u> <u>SEWER RETICULATION</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>uPVC pipes and fittings</u> Soil, waste pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U fittings all with similar push-in type joints <u>Exposed concrete surfaces</u> Exposed surfaces of concrete storm water channels, cover slabs, inspection eye marker slabs, cullev tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster. <u>Nature of ground</u> A soils investigation has been carried out on site by the engineer and the report is available upon request. Descriptions of excavations shall be deemed to include all around conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured <u>Subterranean water</u> The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefore in his prices. <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturer's instructions exist pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200 L: Medium pressure pipelines LD: Sewers LE: Storm water drainage Pipe trenches, etc shall be backfilled in accordance with Clauses 3. 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding. Bedding must be selected granular material (specify SABS 1200 LB class B material) minimum 100mm thick on top and bottom of pipe compacted to 90% MDD. Selected fill blanket according to SABS 1200LB: selected fill material shall be material that has a PI not exceeding 6 and that is free from vegetation and from lumps or stone of diameter exceeding 30mm. In 150mm layers compacted to 90% MDD. Fill blanket is above the bedding and 200mm thickness. In 150mm layers compacted to 90% MDD. <u>General</u> Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, selected backfilling material, risk of collapse, working space, compaction to a minimum of 95% MDD density in layers of 150mm and disposal of surplus material on site				
BILL No. 21	Bill No. 21 SEWER RETICULATION carried to collection				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 21
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>As-built drawings</u> Where required, the contractor shall prepare an updated set of drawings. At completion of the contract the contractor shall hand these as-built drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere) <u>SOIL DRAINAGE</u> <u>uPVC Class 34 pipes with socketed joints</u> 1 110mm uPVC Class 34 sewer drainage pipes (pipes complete with couplings, spigots, sockets, fittings, adapters, etc.) laid in trenches not exceeding 1000mm deep including all sockets, fittings, adapters, dpc, excavation, bedding, stone filling, backfilling and compaction and disposal of surplus material 2 Ditto, but exceeding 1000mm not exceeding 2000mm deep including all sockets, fittings, adapters, excavation, bedding, backfilling and compaction and disposal of surplus material 3 Ditto, but exceeding 2000mm not exceeding 3000mm deep including all sockets, fittings, adapters, excavation, bedding, backfilling and compaction and disposal of surplus material <u>Extra over uPVC Class 34 pipes for fittings in trenches</u> 4 110mm Bend 5 110mm Junction 6 110 x 75mm Reducing junction <u>Excavate and Build Manholes</u> 7 Excavate in compacted earth for and build pre-cast concrete manhole with 560mm diameter Class B125 Polyester Resin or Type 4 concrete manhole cover and frame. Manhole with 1000mm internal diameter shaft with 75mm reinforced concrete wall spacer rings internally, 1110 x 1110mm x minimum 150mm thick cast in-situ concrete slab 25MPa with reinforcement, HDPE steps 300c/c vertical and horizontal. 20mm Dolomitic steel floated benching to top of concrete base. 25MPa concrete haunching 100mm wide, including leaving or forming opening in precast concrete wall for 150mm diameter outlets including all excavations, backfilling, compaction, working space, de-watering, risk of collapse, formwork, reinforcing, etc. not exceeding 1500 mm deep. 8 Ditto, but exceeding 1500mm and not exceeding 2000mm deep 9 Ditto, but exceeding 2000mm and not exceeding 2500mm deep 10 Ditto, but exceeding 2500mm and not exceeding 3000mm deep 11 Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock <u>Municipal Connection</u> 12 Excavate, carefully create opening in existing sewer manhole exceeding 3000mm not exceeding 4000mm deep, connect new sewer pipe with fittings and make good <u>Septic Tank Connection</u> 13 Carefully open up existing septic tank, connect new sewer pipe with fittings and make good				
BILL No. 21	Bill No. 21 SEWER RETICULATION carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 21
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Sundries</u>				
14		Unreinforced concrete encasement of pipes (25MPa)	m³	6		
15		Provide all necessary testing apparatus, water, materials, etc. and allow for testing of drainage system to the satisfaction of the Representative. All defective work shall be taken out and replaced at the Contractor's expense and the whole re-tested until found perfect	Item	1		
		<u>BUDGETARY ALLOWANCES</u>				
		<u>The following Budgetary Allowances are for work to be executed by Main Contractor or specialist suppliers and priced at Bill rates or the rates to be agreed and to be used as directed by the Principal Agent and to be deducted in whole or in part if not required</u>				
16		Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for decommissioning of existing septic tank and sewer line	Item			R25,000.00
17		Provide the sum of R50 000.00 (Fifty Thousand Rands) for municipal connection fees	Item			R50,000.00
18		Provide the sum of R75 000.00 (Seventy Five Thousand Rands) for additional general work still to be designed and will/may be carried out by the contractor	Item			R75,000.00
BILL No. 21	Bill No. 21 SEWER RETICULATION carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 22
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 22</u> <u>STORMWATER DRAINAGE, SUB-SOIL DRAINAGE</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Concrete pipes: interlocking joints</u> Pipes shall be jointed with interlocking joints with rubber collars or socket and spigot joints with rubber rings. <u>uPVC pipes and fittings</u> Soil, waste pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U fittings all with similar push-in type joints <u>Exposed concrete surfaces</u> Exposed surfaces of concrete storm water channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster. <u>Nature of ground</u> A soils investigation has been carried out on site by the engineer and the report is available upon request. Descriptions of excavations shall be deemed to include all ground conditions classifiable as earth described in the above report and where conditions of a more difficult character are indicated these are separately measured <u>Subterranean water</u> The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefore in his prices. <u>Laying, backfilling, bedding, etc. of pipes</u> Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions. Where no manufacturer's instructions exist pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SABS 1200 L: Medium pressure pipelines LD: Sewers LE: Storm water drainage Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding. Selected granular bedding and cradle material in 150mm layers 100 mm below pipe and 200mm above the pipe, compacted to 90% MDD. Selected backfill blanket is above the bedding in 150mm layers compacted to 90% MDD. Approved backfill 150mm layers compacted to 90% MDD.				
BILL No. 22	Bill No. 14 STORMWATER DRAINAGE, SUB-SOIL DRAINAGE carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 22
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>General</u> Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, selected backfilling material, risk of collapse, working space, compaction to a minimum of 95% MDD density in layers of 150mm and disposal of surplus material on site <u>As-built drawings</u> 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) <u>STORM WATER DRAINAGE</u> <u>Concrete Stormwater Channel</u>				
1		25Mpa/19mm V shaped concrete drainage channel 100mm thick with overall canal size 600mm wide x 50mm deep finished smooth on all exposed surfaces to a uniform dense finish with closed cell expanded polyethylene filler and polyurethane sealant expansion joints at 2m centres, 150mm bottom layer to be ripped and re-compacted to 93% MDD, 150mm top layer of G5 imported material to 95% MDD including all necessary excavation, backfilling, carting away, cutting into paving, formwork, reinforcement, dowels, etc.. Channels including slopes, overall shape etc. as per engineers drawings	m	18		
2		25Mpa/19mm Trapezium shaped concrete drainage channel 125mm thick with overall canal size 600mm wide x 250mm deep finished smooth on all exposed surfaces with a steel float to a uniform dense finish with closed cell expanded polyethylene filler and polyurethane sealant expansion joints at 1.8m centres, 150mm bottom layer to be ripped and re-compacted to 93% MDD, 150mm top layer of G5 imported material to 93% MDD including all necessary excavation, backfilling, carting away, cutting into paving, formwork, reinforcement dowels, etc.. Channels including slopes, overall shape etc. as per engineers drawings	m	80		
3		25Mpa/19mm U shaped concrete drainage channel 200mm thick with overall canal size 600mm wide x 300mm deep finished smooth on all exposed surfaces with a steel float to a uniform dense finish with closed cell expanded polyethylene filler and polyurethane sealant expansion joints at 1.8m centres, 150mm bottom layer to be ripped and re-compacted to 93% MDD, 150mm top layer of G5 imported material to 93% MDD including all necessary excavation, backfilling, carting away, cutting into paving, formwork, reinforcing, dowels, etc.	m	24		
		<u>Stone pitched Stormwater Channel</u>				
4		19mm Compacted stone V shaped drainage channel 200mm thick with 1:3 slope, 150mm bottom layer to be ripped and re-compacted to 93% MDD, 150mm top layer of G5 imported material to 95% MDD including all necessary excavation, backfilling, carting away, cutting into paving, mortar etc. Channels including slopes, overall shape etc. as per engineers drawings	m	126		
5		Bidim A4 or similar and approved geofabric filter blanket of 2,1mm thickness under 2kPa with 150mm side and 300mm end laps including stitching over compacted surface underneath compacted stone (stone measured elsewhere)	m ²	151		
BILL No. 22	Bill No. 14 STORMWATER DRAINAGE, SUB-SOIL DRAINAGE carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 22
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Sundries</u>				
6		Extra over channel for 90 degree angle	No	24		
7		Extra over channel for forming of 20MPa concrete silt trap size 300 x 200mm high in channel including class B grate, all necessary formwork, reinforcing etc.	No	1		
8		Extra over channel for closed end	No	6		
9		Extra over channel for open end into catchpit (catchpit elsewhere measured)	No	6		
10		Extra over channel for Rectagrid RS40 or similar and approved grating size 640 x 2560mm with closed ends and 60 x 4,5mm bearer bars, laid on loose on and including 25 x 5 x 5mm thick mild steel angle iron with 100mm anchors embedded in concrete	No	10		
		<u>Rocla or similar and approved Concrete Pipes</u>				
		Supply, handle, lay, joint, precast concrete pipe complete with spigots & socket with rubber ring seal, etc, and bed pipes on class A/B rigid pipe bedding compacted to 90% MDD, etc. all as per Engineers detail and specifications				
11		375mm Diameter class 75D pre-cast concrete pipe laid in trenches not exceeding 1m deep, including excavation, bedding, backfilling and compaction and disposal of surplus material	m	6		
12		Ditto exceeding 1m but not exceeding 2m deep	m	4		
13		Ditto exceeding 2m but not exceeding 3m deep	m	4		
14		450mm Diameter class 100D pre-cast concrete pipe laid in trenches not exceeding 1m deep, including excavation, bedding, backfilling and compaction and disposal of surplus material	m	35		
15		Ditto exceeding 1m but not exceeding 2m deep	m	22		
16		Ditto exceeding 2m but not exceeding 3m deep	m	31		
		Excavate and Build Manholes, Kerb Inlets, etc.				
17		Excavate in compacted earth for building up manhole/kerb inlet, size approximately 1600 x 1750 not exceeding 1m deep internally with 220mm brick wall sides in engineering bricks built on and including 175mm thick, 25Mpa in-situ concrete base with ref. 888 mesh reinforcement, on 1:5 cement mortar, benching to bottom in 187.5mm thick 15Mpa concrete finished off smooth with a steel trowel and fitted with & including 25Mpa reinforced concrete roof slab and 600mm diameter heavy duty type 2A manhole cover and frame, frame cast into concrete surround with step irons to SABS 1247 fixed to brickwork at 300c/c including leaving or forming opening in brickwork for 2No. 375mm diameter outlets including all excavations, backfilling, formwork, de-watering, risk of collapse, reinforcing, etc. all as per engineers detail and specification	No	1		
18		Ditto exceeding 2m but not exceeding 3m deep	No	1		
BILL No. 22	Bill No. 14 STORMWATER DRAINAGE, SUB-SOIL DRAINAGE carried to collection					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE						Bill 22
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>Excavate and Build Catchpits and grid inlets</u>				
19		Excavate in compacted earth for building up grid inlet, size approximately 1800 x 1800mm not exceeding 1m deep internally with 230mm brick wall sides in engineering bricks built on and including 150mm thick, 25Mpa in-situ concrete base with ref. 245 mesh reinforcement, on 1:5 cement mortar, benching to bottom in 15Mpa concrete finished off smooth with a steel trowel and fitted with & including 25Mpa reinforced (mesh ref. 395) concrete dished cover slab approximately 1800 x 1600mm finished with steel trowel, including 520 x 790mm heavy duty grating and frame, frame cast into 1:10 sloping reinforced concrete surround with step irons to SABS 1247 fixed to brickwork at 300c/c including leaving or forming opening in brickwork for 2No. 375/450mm diameter outlets including all excavations, backfilling, de-watering, risk of collapse, formwork, reinforcing, etc. all as per engineers detail and specification	No	1		
20		Ditto exceeding 1m but not exceeding 2m deep	No	1		
		<u>BUDGETARY ALLOWANCES</u>				
		The following Budgetary Allowances are for work to be executed by the Main Contractor or specialist suppliers and priced at Bill rates or rates to be agreed and to be used as directed by the Principal Agent and to be deducted in whole or in part if not required				
21		Provide the sum of R50 000.00 (Fifty Thousand Rands) for municipal connection fees	Item			R50,000.00
22		Provide the sum of R50 000.00 (Fifty Thousand Rands) for additional general work still to be designed and will/may be carried out by the contractor	Item			R50,000.00
BILL No. 22	Bill No. 14 STORMWATER DRAINAGE, SUB-SOIL DRAINAGE carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 22
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	STORMWATER DRAINAGE, SUB-SOIL DRAINAGE <u>COLLECTION</u> Total Brought Forward from Page No.		188 189 190 191			
BILL No. 22	Bill No. 22 STORMWATER DRAINAGE, SUB-SOIL DRAINAGE carried to Summary					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 23
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 23</u> <u>STREET FURNITURE</u> <u>Supply and install furniture</u> <u>Recycled Plastic Benches</u> 1 3 Seater 1500mm x 700mm width (RP95) Gloria Bench or similar and approved <u>Monkey Proof Recycled Plastic bins</u> 2 540 x 540 x 850mm self standing Monkey proof Eco bin with rotating lid or similar and approved <u>Timber Bollards</u> 3 Tanalith (CCA) or similar and approved treated H4 timber bollard timber bollard 170mm in diameter, 1000mm high fixed into 350 x 350 x 350mm base including all excavations, concrete, carting away, reinforcing connections holding down bolts, screws, plates etc. all in accordance with manufacturers, architect's and engineers Specifications	No	10		
		No	8		
		No	12		
BILL No. 23	Bill No. 23 STREET FURNITURE carried to Summary				

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 24
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 24</u> <u>ELECTRICAL</u> <u>LOW VOLTAGE CABLES</u> <u>Supply and install PVC insulated PVC bedded SWA PVC sheathed 600/1000 V cables manufactured to SANS 1507-3 including BCEW strapped to cable.</u>				
1	16mm ² Cu x 3 core cable (From new main distribution kiosk to new Lapa distribution board)	m	100		
	<u>Supply and install termination kits PVC insulated PVC bedded SWA PVC sheathed 600/1000 V cables, including glands, shrouds, lugs and bi-metal lugs for Al cables.</u>				
2	16mm ² Cu x 3 core cable (No.2 gland)	No.	2		
	<u>CABLE ROUTE MARKER TAPE</u>				
3	Supply and install cable route marker tape	m	100		
	<u>EXCAVATIONS & ROAD CROSSINGS</u>				
4	Excavate and back fill cable trench, including bedding material sifted on site from excavated material.(0,5m wide x 0,6m deep). Reinststate paving and ground to original condition.	m ³	30		
5	Supply and install black Ø110mm nextube sleeve pipes for road crossings including all bends and couplings required for the installation.	m	20		
6	Supply and install distribution kiosk as specified on drawing 34398-02-392-05-01. Including all labels, padlocks, disconnecting of existing cables, removing existing distribution kiosk and place in designated place on site. Install new kiosk and reconnect all existing cables.	No.	1		
7	Supply and install earth mat for distribution kiosks. 16mm ² BCEW + 1.8m earthing electrodes)	No.	3		
8	Test, identify and label cables installed in new Entrance Main Distribution Kiosk and issue COC.	No.	1		
	<u>EXTERNAL LUMINAIRES</u>				
	<u>Supply and install the following luminaires suspended 4.6m above the entrance and exist road of the gate house with 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Avg supply length of 20m.</u>				
9	Beka EcoBay or similar and approved 146W with clear glass 4011 optic and aluminium finish - 4000K IP66 rated or similar. Including all accessories to be suspended.	No.	4		
10	Supply and install Beka Focus 26W 4000K LED IP66 signage luminaire including earthspike for mounting or similar. Complete with all accessories to complete installation excluding the cable. Cable measured elsewhere.	No.	2		
11	Supply and install vandal proof steel cage around Beka Focus luminaires, with lockable gate. Including padlock and accessories to complete the installation.	No.	1		
BILL No. 24	Bill No. 24 ELECTRICAL carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 24
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>LOW VOLTAGE CABLES</u>				
		<u>Supply and install PVC insulated PVC bedded SWA PVC sheathed 600/1000 V cables manufactured to SANS 1507-3 including BCEW strapped to cable.</u>				
12		2.5mm ² Cu x 3 core cable (From existing gate house distribution board to Beka Focus signage luminaires). Complete with prattley boxes.	m	40		
		<u>Supply and install termination kits PVC insulated PVC bedded SWA PVC sheathed 600/1000 V cables, including glands, shrouds, lugs and bi-metal lugs for Al cables.</u>				
13		2.5mm ² Cu x 3 core cable (No.0 gland)	No.	2		
		<u>LUMINAIRES SWITCHING</u>				
14		Supply and install 20amp 3kA circuit breaker inside existing Gate House DB with 2 x 2.5mm ² PVC insulated conductors and 2.5mm ² PVC insulated earth wire. Supply length of 20m to photocells (day/night switch)	No.	3		
		<u>CIRCUIT BREAKER</u>				
15		Supply and install 16 amp photocell (daylight switch) on outside wall with 2 x 2.5mm ² PVC insulated conductors and 2.5mm ² PVC insulated earth wire. Supply length of 20m.	No.	1		
		<u>TESTING</u>				
16		Testing and commissioning of installation and issue of COC	No.	1		
		<u>ELECTRICAL CONDUIT</u>				
17		Supply and install Ø25mm Galvanised Steel conduit, including all couplings, loop/inspection boxes, plugs, fixing saddles (hospital saddles) and screws, cutting bending, fixing, cleaning for wiring purposes cast in concrete, in brickwork or on surface. To include all chasing into brickwork, making good of the walls and draw wire.	m	120		
18		Supply and install Ø25mm PVC conduit, including all couplings, loop/inspection boxes, plugs, fixing saddles and screws, cutting bending, fixing, cleaning for wiring purposes cast in concrete, in brickwork or on surface. To include all chasing into brickwork and making good of the walls.	m	40		
		<u>EXISTING ELECTRICAL INSTALLATION</u>				
19		Disconnect and remove existing lighting installation and store in designated space provided on site. Inspect and test socket outlets and geyser isolator installation. (Existing installation consist of 6luminaires and 2 handdryers)	Sum	1		
		<u>DISTRIBUTION BOARD</u>				
20		Provisional sum for distribution board refurbishment.	No.	1		
		<u>GEYSER SUPPLY</u>				
21		Supply and install Crabtree Classic Range or similar and approved 30A double pole isolator switch in surface mounted 4 x 4 box next to geyser including yoke and cover plate with 2 x 4mm ² PVC insulated conductors and 4mm ² PVC insulated earth wire. Supply length of 6m to geyser. (Colour of switch: White)	No.	1		
BILL No. 24	Bill No. 24 ELECTRICAL carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 24
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
22		<u>HAND DRYER SUPPLY</u> Supply and install Crabtree Classic Range or similar and approved 30A double pole isolator switch in flush mounted 4 x 4 box, 300mm from ceiling above the hand dryer, including yoke and cover plate with 2 x 4mm² PVC insulated conductors and 4mm² PVC insulated earth wire. Supply length of 15m to each hand dryer. (Colour of switch: White) <u>EXTERNAL LUMINARIES</u> <u>Supply and install the following luminaires suspended 4.6m above the entrance and exist road of the gate house with 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Avg supply length of 10m.</u>	No.	3		
23		Lascon C10 / 24W LED tridonic / 6080LM / photo engrave lense - 4000K IP65 rated or similar and approved. Including all accessories to be suspended	No.	7		
24		Lascon C10 / 24W LED tridonic / 6080LM / photo engrave lense - 4000K IP65 rated or similar approved. Including all accessories to be fitted under roof steel beam.	No.	3		
25		<u>LOW VOLTAGE CABLES</u> <u>Supply and install PVC insulated PVC bedded SWA PVC sheathed 600/1000 V cables manufactured to SANS 1507-3 including BCEW strapped to cable.</u> 2.5mm² Cu x 3 core cable (From existing gate house distribution board to Beka Focus signage luminaires). Complete with pratley boxes.	No.	45		
26		<u>Supply and install termination kits PVC insulated PVC bedded SWA PVC sheathed 600/1000 V cables, including glands, shrouds, lugs and bi-metal lugs for Al cables.</u> 2.5mm² Cu x 3 core cable (No.0 gland)	No.	2		
27		<u>CABLE ROUTE MARKER TAPE</u> Supply and install cable route marker tap	m	40		
28		<u>EXCAVATIONS & ROAD CROSSINGS</u> Excavate and back fill cable trench, including bedding material sifted on site from excavated material.(0,5m wide x 0,6m deep). Reinstat paving and ground to original condition.	m ³	15		
29		<u>LUMINAIRES SWITCHING</u> Supply and install Crabtree Classic Range or similar and approved one lever one way 20A light switch in surface mounted 2 x 4 box, 1200mm from AFFL, including yoke and cover plate with 2 x 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Supply length of 10m to each light switch.	No.	3		
30		Supply and install 16amp photocell (day/night switch) on outside wall with 2 x 2.5mm ² PVC insulated conductors and 2.5mm ² PVC insulated earth wire. Supply length of 20m.	No.	2		
31		<u>TESTING</u> Testing and commisioning of installation and issue of COC	No.	1		
32		<u>ELECTRICAL CONDUIT</u> Supply and install Ø25mm Galvanised Steel conduit, including all couplings, loop/inspection boxes, plugs, fixing saddles (hospital saddles) and screws, cutting bending, fixing, cleaning for wiring purposes cast in concrete, in brickwork or on surface. To Include all chasing into brickwork, making good of the walls and draw wire.	m	80		
BILL No. 24	Bill No. 24 ELECTRICAL carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 24
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
33		Supply and install Ø25mm PVC conduit, including all couplings, loop/inspection boxes, plugs, fixing saddles and screws, cutting bending, fixing, cleaning for wiring purposes cast in concrete, in brickwork or on surface. To Include all chasing into brickwork and making good of the Walls. <u>SLEEVES</u>	m	25		
34		Supply and install Ø50mm nextube sleeve pipe with slow bend <u>DISTRIBUTION BOARD</u>	m	10		
35		Supply and install flush mounted distribution board as specified on drawing. Including all lables and padlock. <u>GEYSER SUPPLY</u>	No.	1		
36		Supply and install Crabtree Classic Range or similar and approved 30A double pole isolator switch in surface mounted 4 x 4 box next to geyser including yoke and cover plate with 2 x 4mm² PVC insulated conductors and 4mm² PVC insulated earth wire. Supply length of 10m to geyser. (Colour of switch: White) <u>SMAL POWER OUTLETS</u>	No.	1		
37		Supply and install Crabtree Classic Range or similar and approved 16A single socket outlet switched in surface mounted 4 x 4 wall box yoke and cover plate with 2 x 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Supply length of 20m to socket. (Colour of switch: White)	No.	5		
38		Supply and install Crabtree Classic Range 16A double socket or similar and approved outlet switched in flush mounted 4 x 4 wall box yoke and cover plate with 2 x 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Supply length of 20m to socket. (Colour of switch: White)	No.	7		
39		Supply and install two channel powerskirting similar to Cabstrut Platinum Double Compartment PVC Powerskirting (EP202) or similar and approved, including all elbows, tees, end caps and fixtures.	m	25		
40		Supply and install the following power skirting outlets, including all coverplates and fixtures. <u>16A normal switched socket outlet with 2 x 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Supply length of 10m to socket. (Colour of switch: White)</u>	No.	8		
41		16A dedicated switched socket outlet with 2 x 2.5mm² PVC Supply length of 10m to socket. (Colour of switch: Red)	No.	8		
42		CAT 6 datat outlet. (Colour of switch: White) <u>INTERNAL LUMINAIRES</u> <u>Supply and install the following luminaires including a 6A unswitched socket outlet in round PVC box, yoke and cover plate with 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Avg supply length of 15m</u>	No.	8		
43		Beka LED Panel 600 x 1200 48W - recessed or similar and approved	No.	6		
BILL No. 24	BILL No. 24 ELECTRICAL carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 24
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
44		<u>Supply and install the following luminaires onto timber pole structure with 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Avg supply length of 15m</u> Lascon C10 / 24W LED tridonic / 6080LM / photo engrave lense - 4000K IP65 rated or similar and approved.	No.	8		
45		<u>Supply and install the following wall luminaires including a flush mounted 65mm round PVC box with cover plate, 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Avg supply length of 15m</u> BEKA SERIES 30 NW 17W or similar and approved <u>LUMINAIRES SWITCHING</u>	No.	8		
46		Supply and install Crabtree Classic Range or similar and approved three lever one way 20A light switch in flush mounted 2 x 4 box, 1200mm from AFFL, including yoke and cover plate with 2 x 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Supply length of 10m to each light switch.	No.	2		
47		Supply and install Crabtree Classic Range or similar and approved one lever two way 20A light switch in flush mounted 2 x 4 box, 1200mm from AFFL, including yoke and cover plate with 2 x 2.5mm² PVC insulated conductors and 2.5mm² PVC insulated earth wire. Supply length of 10m to each light switch. <u>TESTING</u>	No.	2		
48		Testing and commisioning of installation and issue of COC	No.	1		
49		Supply and install Ø25mm Galvanised Steel conduit, including all couplings, loop/inspection boxes, plugs, fixing saddles (hospital saddles) and screws, cutting bending, fixing, cleaning forwiring purposes cast in concrete, in brickwork or on surface. To Include all chasing into brickwork, making good of the walls and draw wire.	m	100		
50		Supply and install Ø25mm PVC conduit, including all couplings, loop/inspection boxes, plugs, fixing saddles and screws, cutting bending, fixing, cleaning for wiring purposes cast in concrete, in brickwork or on surface. To Include all chasing into brickwork, making good of the walls and draw wire.	m	50		
BILL No. 24	Bill No. 24 ELECTRICAL carried to Collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 24
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	ELECTRICAL <u>COLLECTION</u> Total Brought Forward from Page No.		194 195 196 197 198			
BILL No. 24	Bill No. 24 ELECTRICAL carried to Summary					

CONTRACT NUMBER: GS40/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 25
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 25</u> <u>MECHANICAL</u> <u>FIRE PROTECTION EQUIPMENT</u> <u>Supply, deliver, installation, testing, commissioning and handing over in working order and maintenance during guarantee period.</u> <u>FIRE FIGHTING EQUIPMENT</u> <u>FIRE HYDRANTS</u> <u>Suction Hydrant</u> 1 Right Angle Tamperproof Hydrant with 100mm Storz Outlet and 100mm Female BSP Inlet. (Installation downstream of water meter connection). <u>Isolation Valve</u> 2 100mm FxF (Female x Female) Full Bore BSP Brass Ball Valve <u>Backflow Preventer</u> 3 Cast Iron Wafer Check Valve with Ductile Iron or 316 Stainless Steel Double Doors and EPDM Seal. This valve assembly downstream of the suction hydrant to be encased in a 600mm x 480mm medium grade cast iron manhole with frame for access for maintenance. <u>Twin Fire Brigade Booster Connection</u> 4 100mm Two-Port Booster with 65mm Brass Booster Connectors, Pressure Gauge with 100mm T/16 Inlet encased in a steel cover with front open. Pressure gauge Dial to read up to 2500kPa. (Installed downstream of Item Above). Note: Hand wheel type hydrants are strictly not acceptable. <u>STATUTORY SIGNAGE</u> 5 ABS signage in accordance with SANS 1186 for external raised external fire hydrants incorporating the pictographs in the standard 290mm x 290mm module size fixed on a purpose made triangular steel support such that the sign is visible from the two sides the viewing two sides along the road. The mounting height to be ±2000mm above finished ground level.	No.	3		
		No.	3		
		No.	2		
		No.	2		
		No.	8		
BILL 25	Bill 25 MECHANICAL carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 25
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>PIPING RETICULATION</u> <u>All rates supplied in this bill of quantities shall be deemed to include scaffolding to any height and fixing piping up to roof height.</u> <u>All piping rates supplied shall include couplings, bends, tees, sockets, pipe supports, anchors, along the running length.</u> <u>All pipes suspended from concrete slabs, roof, ceiling, etc, shall to include in the rates all necessary hanger be deemed brackets, threaded rods (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab.</u> <u>All pipes are generally to be concealed inside recesses, ceiling voids except where it is necessary to feed an appliance and fixed with standard type pipe supports and brackets spaced at intervals strictly as per manufacturer's recommendations.</u> <u>ABOVE GROUND PIPING</u> <u>Galvanised Steel Pipework including Fittings</u> <u>All above-ground firewater pipes shall be Medium Grade Galvanised Steel to SANS 62-1:2013 for nominal sizes from 25mm up to and including 150mm.</u> <u>All pipes and fittings shall be installed strictly in accordance with the manufacturer's specifications, and recommendations.</u> <u>Pipes shall be colour coded in accordance with the requirements of SANS 10140</u> <u>Identification Colour Markings - Part 3: 2017 Contents of Pipelines or similar approved in close liaison with with the Fire Engineer.</u> <u>Medium Grade Steel Pipes</u>				
6		100mm diameter pipes	m	350		
7		80mm diameter pipes	m	100		
		<u>EXTERNAL FIRE PIPING RETICULATION -BELOW GROUND (BY OTHERS)</u> <u>High Pressure HDPE Type IV PE 80 Class 16 pipes to SANS 4427:2008 used in conjunction with electro fusion and butt weld fittings or compression fittings or Victaulic Takstubs suitable for below-ground applications for the conveyance of potable water in reticulation systems in which continuous temperatures in excess of 25°C are not encountered.</u> <u>All rates supplied in this bill of quantities shall be deemed to include scaffolding to any height and fixing piping up to roof height.</u> <u>All piping rates supplied shall include couplings, bends, tees, sockets, pipe supports, anchors, along the running length and backfilling and compaction.</u>				
8		Ø110mm High pressure pipe laid in ground not exceeding 1000mm deep.	m	350		
9		Ø75mm High pressure pipe laid in ground not exceeding 1000mm deep.	m	100		
BILL 25	Bill 25 MECHANICAL carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 25
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>GROUND LEVEL FIRE WATER STORAGE AND PRESSURE BOOSTER PUMP SYSTEM</u>				
		<u>FIRE + DOMESTIC WATER TANK</u>				
10		Supply and install sectional steel water tank constructed from square shaped standard panel size 1.22m L x 1.22m W. Tank configuration to be such that the tank is subdivided into two equal sections with a divider ±200mm below the roof of the tank. Tank Full Structure = 200 000 Litres Note: Tank shop drawing to be issued to the Fire Engineer for approval prior to placement of order. All tank valves and accessories to be included in the price not necessarily limited to the following: - 2-off 600mm x 600mm access manholes on the roof of the tank - 2-off Ø200 air vents - 2-off catladders - 2 x 80mm mechanical ball float valves - 2 x Ø600mm Vortex Inhibitors - 1 x Ø100mm balancing valve (normally open) - 2 x Ø80mm drain valves (normally closed). - 2 x 150mm tank delivery OS & Y isolating valve - Earthworks - Concrete works	Sum	1		
		<u>FIRE BOOSTER PUMPS</u>				
11		Supply and install pressure switch operated packaged electrical & diesel Duty and Standby + jockey pump set complete with all standard isolating valves, strainers, non-return valves, pressure gauges etc. -Fire pump duty = 1200 Litres per minute @ 300kPa -Pump performance curves to be submitted to Fire Engineer for approval.	Item	1		
		<u>PUMP ROOM ,PIPING AND ACCESSORIES</u>				
12		Supply and install all pump room interconnecting pipework complete with fittings to include all valves, flexible connections accessories not limited to the following: - 4-off non-return valves one on each pump delivery pump - 4-off isolating valves one on each pump delivery pump - 4-off site glasses with flow indicators one on each pump cooling return to tank - 4-off pump suction compound pressure gauge one on each pump - 4-off pump delivery pressure gauge one on each pump - 1-off non-return valve on the jockey pump delivery - 1-off isolating valve downstream of the jockey pump non-return valve above - 1-off pump Auto-start Arrangement - 1-off Pump Room Electrical Distribution Board - 2-off Duty Electrical Motor Driven Pump Controller Panel - 1-off Electrical Jockey Pump Controller Panel - 4-off isolating valves one on the upstream and the other downstream of the direct reading flow meter - 4-off pressure gauges on either side of the of the direct reading "Gerand" or similar approved flow meter - 2 x 125mm direct reading flow meter on pump Proving Test Arrangement to tank	Sum	1		
BILL 25	Bill 25 MECHANICAL carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 25
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	MECHANICAL <u>COLLECTION</u> Total Brought Forward from Page No.		200 201 202			
BILL 25	Bill 25 MECHANICAL carried to summary					

CONTRACT NUMBER: G540/2024 CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE					Bill 26
Item No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>BILL NO. 26</u> <u>PROVISIONAL SUMS</u> The following Provisional Sums are all NET amounts and are for work to be executed complete by Nominated/Selected Sub-Contractors or by the Contractor himself. Provisional Sums may be omitted or reduced at the Employers's sole discretion and the contractor shall not be entitled to claim for any loss by way of reductions or omissions of any discount, or percentage relating to Provisional Sums or P.C. amounts or any loss of profit related thereto. The Employer shall also have the right to send onto the works and install any furniture, finishings or fitments, machinery, equipment, etc., and to supply and execute any other special works not contained in this contract during this contract, and the Contractor shall not be entitled to any percentage or discount thereon. The Profit and Attendance on the following items will only be paid to the Contractor should a Nominated/Selected Sub-contractor conduct the work. If the allowance is directed for work to be done by the Contractor the Attendance amounts will not be paid to the Contractor. Refer to Clause C20 for the Adjustment of Attendance. N.B. Any builder's work that the Contractor may be called upon to do so in connection with any such special works or services will be measured and valued at schedule rates as executed. <u>SPECIALIST SUB-CONTRACTORS TO THE MAIN CONTRACTOR</u> <u>COMMUNITY LIAISON OFFICER</u> 1 Provide the sum of R68 000.00 (Sixty Eight Thousand Rands) for the appointment of a Community Liaison Officer 2 Allow for profit on above 3 Allow for attendance on above <u>TRAINING OF LOCAL LABOUR</u> 4 Provide the sum of R130 000.00 (One Hundred and Thirty Thousand Rands) for the Training of Local Labour 5 Allow for profit on above 6 Allow for attendance on above <u>SMME MENTOR</u> 7 Provide the sum of R200 000.00 (Two Hundred Thousand Rands) for SMME mentor 8 Allow for profit on above 9 Allow for attendance on above <u>SECURITY GATES</u> 10 Provide the sum of R50 000.00 (Fifty Thousand Rand) for security gates including installation executed complete 11 Allow for profit on above 12 Allow for attendance on above				
BILL No. 26	Bill No. 26 PROVISIONAL SUMS carried to collection				

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 26
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<u>FANS TO LAPA</u>				
13		Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for the supply and installation of fans to Lapa executed complete	Item		R25,000.00	R25,000.00
14		Allow for profit on above				
15		Allow for attendance on above				
		<u>ENTRANCE SIGNAGE</u>				
16		Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for the supply and installation of entrance signage executed complete	Item		R25,000.00	R25,000.00
17		Allow for profit on above				
18		Allow for attendance on above				
		<u>ROOF STRUCTURE</u>				
19		Provide the sum of R200 000.00 (Two Hundred Thousand Rand) for the design, fabrication and installation of roof structures executed complete	Item		R200,000.00	R200,000.00
20		Allow for profit on above				
21		Allow for attendance on above				
		<u>ELECTRICAL WORKS</u>				
22		Provide the sum of R60 000.00 (Fifty Thousand Rand) Relocation of existing water services on site, including cutting, capping, re-routing of pipework, fittings, valves, testing, and reinstatement	Sum		R60,000.00	R60,000.00
		<u>WATER SERVICES</u>				
23		Provide the sum of R50 000.00 (Fifty Thousand Rand) for the relocation of existing electrical services on site, including disconnection, cable trenching, cable laying, jointing, reconnection, and reinstatement	Sum		R50,000.00	R50,000.00
24		Provide the sum of R20 000.00 (Twenty Thousand Rand) For concrete encasing	Sum		R20,000.00	R20,000.00
25		Provide the sum of R50 000.00 (Fifty Thousand) for breaking down/demolishing and removing existing sewer line lot as directed by Principal Agent	Sum		R50,000.00	R50,000.00
26		Provide the sum of R30 000.00 (Thirty Thousand) for sewer connection as directed by Principal Agent	Sum		R30,000.00	R30,000.00
BILL No. 26	Bill No. 26 PROVISIONAL SUMS carried to collection					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE				Bill 26
ITEM NO	PAYMENT REFERS TO		Page No.			AMOUNT
	PROVISIONAL SUMS <u>COLLECTION</u> Total Brought Forward from Page No.		204 205			
BILL No. 26	Bill No. 26 PROVISIONAL SUMS carried to Summary					

CONTRACT NUMBER: G540/2024		CONSTRUCTION OF A NEW LAPA AND THE REFURBISHMENT OF GATE HOUSE AND ABLUTIONS, EXTERNAL AREAS AND THE INSPECTION AND WORKS TO EXISTING AND NEW SERVICES AT THE MOKOPANE BIODIVERSITY CONSERVATION CENTRE	SUMMARY
Item No.	DESCRIPTION		AMOUNT
BILL NO. 1	PRELIMINARIES AND GENERAL		
BILL NO. 2	ALTERATION & REMOVAL WORKS		
BILL NO. 3	EARTHWORKS		
BILL NO. 4	CONCRETE, FORMWORK AND REINFORCEMENT		
BILL NO. 5	MASONRY		
BILL NO. 6	WATERPROOFING		
BILL NO. 7	ROOF COVERINGS		
BILL NO. 8	CARPENTRY & JOINERY		
BILL NO. 9	CEILINGS		
BILL NO. 10	IRONMONGERY		
BILL NO. 11	METALWORK		
BILL NO. 12	STRUCTURAL WORK		
BILL NO. 13	PLASTERING		
BILL NO. 14	TILING		
BILL NO. 15	PLUMBING & DRAINAGE		
BILL NO. 16	PAINTWORK		
BILL NO. 17	SITE WORKS AND DEMOLITIONS		
BILL NO. 18	ROADWORKS, PAVING		
BILL NO. 19	FENCING AND GATES		
BILL NO. 20	WATER RETICULATION		
BILL NO. 21	SEWER RETICULATION		
BILL NO. 22	STORMWATER DRAINAGE, SUB-SOIL DRAINAGE		
BILL NO. 23	STREET FURNITURE		
BILL NO. 24	ELECTRICAL		
BILL NO. 25	MECHANICAL		
BILL NO. 26	PROVISIONAL SUMS		
	SUBTOTAL		
	ADD 10% CONTIGENCY		
	TOTAL		
	ADD 15% VAT		
	TOTAL PROJECT CONSTRUCTION COSTS		