



health

Department:
Health
North West Province
REPUBLIC OF SOUTH AFRICA

PROVISIONAL BILLS OF QUANTITIES FOR THE

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL DR KENNETH KAUNDA NORTH WEST

TENDER NUMBER.: NWD_oH/PS/08/18

ISSUED BY: THE HEAD OF DEPARTMENT
DEPARTMENT OF HEALTH
CNR. SEKAME & FIRST STREET
NEW OFFICE PARK
MAHIKENG
2745
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BIDDERS NAME:	
CIDB REGISTRATION NUMBER:	
CSD REGISTRATION NUMBER:	
CONTACT NUMBER:	
TENDER AMOUNT	
TENDER AMOUNT IN WORDS	

MINIMUM CIDB GRADING 7GB

**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
DR KENNETH KAUNDA
NORTH WEST**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 1</u> <u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</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>MEASURING SYSTEM</u> Bills of Quantities/schedule of rates drawn up in accordance with the Standard System of Measuring Building Work - 1999 Sixth Edition (Revised) EXCEPT FOR Electrical and Mechanical Works which are measured in accordance with SANS 1200 <u>SPECIFICATION OF MATERIALS AND METHODS TO BE USED</u> Specification of materials and methods to be used shall be in accordance with PW 371 - 1982 First Edition (Fourth Revision October 1993)			
	Carried to Collection		R	
	Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18			

	<p><u>PRELIMINARIES</u></p> <p>The JBCC Preliminaries May 2018 edition for use with the JBCC Principal Building Agreement Edition 6.2 - May 2018 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked "N/A" signifying "Not Applicable"</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>DEFINITIONS</u></p>				
1	<p>A1.0 DEFINITIONS AND INTERPRETATION</p> <p>Clause 1.0</p> <p>Clause 1.1 Definition of "Commencement Date" is added:</p> <p>"COMMENCEMENT DATE" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect</p> <p>Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>				
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<p>"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</p> <p>Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:</p> <p>"CONSTRUCTION PERIOD" means the period commencing on the commencement date and ending on the date of practical completion</p> <p>Clause 1.1 Definition of "Corrupt Practice" is added:</p> <p>"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</p> <p>Clause 1.1 Definition of "Fraudulent Practice" is added:</p> <p>"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</p> <p>Clause 1.1 Definition of "Interest" is amended by replacing it with the following:</p> <p>"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)</p> <p>Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following:</p>			
<p>Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		<p>R</p>	

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3	<p>A3.0 DOCUMENTS</p> <p>Clause 3.0</p> <p>Clause 3.2.1 is amended by replacing "14.1" with "14.0"</p> <p>Clause 3.7 is amended by the addition of the following:</p> <p>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</p> <p>Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
4	<p>A4.0 DESIGN RESPONSIBILITY</p> <p>Clause 4.0</p> <p>Clause 4.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
5	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

6	A6.0 SITE REPRESENTATIVE Clause 6.0 Fixed: _____ Value related: _____ Time related: _____	Item			
7	A7.0 COMPLIANCE WITH REGULATIONS Clause 7.0 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			
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			
Carried to Collection			R		
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10	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p>10.5 Damage to the Works</p> <p>(a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary</p> <p>(b) The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works</p> <p>(c) The employer shall carry the risk of damage to or destruction of the works and materials paid for by the employer that is the result of the excepted risks as set out in 10.6</p> <p>(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			
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10.6 Injury to Persons or loss of or damage to Properties	<p>(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or negligence of any person for whose actions the employer is legally liable</p> <p>(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</p> <p>(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</p> <p>(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</p>	<p style="text-align: center;">Carried to Collection</p>	<p style="text-align: center;">R</p>	<p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>
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	<p>(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</p> <p>(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</p> <p>10.7 High risk insurance</p> <p>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:</p> <p>10.7.1 Damage to the works</p> <p>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</p> <p>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</p>				

	<p>10.7.2 Injury to persons or loss of or damage to property</p> <p>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</p> <p>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</p> <p>10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p>				
	Carried to Collection		R		
	<p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>				

	<p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>				
11	<p>A11.0 LIABILITY INSURANCES</p> <p>Clause 11.0</p> <p>Fixed: R _____ Value related: _____ Time related: _____</p>	Item			
12	<p>A12.0 EFFECTING INSURANCES</p> <p>Clause 12.0</p> <p>Fixed: R _____ Value related: _____ Time related: _____</p>	Item			
13	<p>A13.0 No clause</p>	N/A			
14	<p>A14.0 SECURITY</p> <p>Clause 14.0</p> <p>Clauses 14.1 - 14.8 are amended by replacing them with the following:</p>				
	Carried to Collection			R	
	<p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>				

<p>14.1 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)</p> <p>14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor</p> <p>14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 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 14.7 shall be deemed to have been selected</p> <p>14.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor</p>			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		<p style="text-align: center;">R</p>	

<p>14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor</p> <p>14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor</p> <p>14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor</p> <p>14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party</p> <p>14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:</p> <p>14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender</p> <p>14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee</p>			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		<p style="text-align: center;">R</p>	

<p>14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)</p> <p>14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion</p> <p>14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring</p> <p>14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8 (A) and 34.8</p> <p>14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both</p> <p>14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date</p> <p>14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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<p>14.6.3 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)</p> <p>14.6.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both</p> <p>14.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:</p> <p>14.7.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(B)</p> <p>14.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor</p> <p>14.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement</p> <p>14.9 Should the contractor fail to furnish the security in terms of 14.2, 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 14.7 shall be applicable</p> <p>Fixed: _____ Value related: _____ Time related: <u>R 160,000.00</u></p>	Item	R	Carried to Collection
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15	<p><u>EXECUTION</u></p> <p>A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS</p> <p>Clause 15.0</p> <p>Clause 15.1.1 is amended by replacing it with:</p> <p>No clause</p> <p>Clause 15.1.2 is amended by replacing it with:</p> <p>The security selected in terms of 14.0</p> <p>Clause 15.1 is amended by the addition of the following clause:</p> <p>15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of commencement date</p> <p>Clause 15.2.1 is amended by replacing it with the following clause:</p> <p>Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.4</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item			
	<p>16</p> <p>A16.0 ACCESS TO THE WORKS</p> <p>Clause 16.0</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>				
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**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
DR KENNETH KAUNDA
NORTH WEST**

17	A17.0 CONTRACT INSTRUCTIONS Clause 17.0 Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors " Fixed: _____ Value related: _____ Time related: _____	Item			
18	A18.0 SETTING OUT OF THE WORKS Clause 18.0 Fixed: R _____ Value related: _____ Time related: _____	Item			
19	A19.0 ASSIGNMENT Clause 19.0 Fixed: _____ Value related: _____ Time related: _____	Item			
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20	<p>A20.0 NOMINATED SUBCONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item		
21	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item		
22	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item		
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23	A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS Clause 23.0 Fixed: _____ Value related: _____ Time related: _____ <u>COMPLETION</u>	Item			
24	A24.0 PRACTICAL COMPLETION Clause 24.0 Fixed: _____ Value related: _____ Time related: _____	Item			
25	A25.0 WORKS COMPLETION Clause 25.0 Fixed: _____ Value related: _____ Time related: _____	Item			
26	A26.0 FINAL COMPLETION Clause 26.0 Clause 26.1.2 is amended by inserting "#" next to 26.1.2 Fixed: _____ Value related: _____ Time related: _____	Item			
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27	A27.0 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed: _____ Value related: _____ Time related: _____	Item			
28	A28.0 SECTIONAL COMPLETION Clause 28.0 Fixed: _____ Value related: _____ Time related: _____	Item			
29	A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 Clause 29.2.5 is amended by replacing it with: No clause Fixed: _____ Value related: _____ Time related: _____	Item			
30	A30.0 PENALTY FOR NON-COMPLETION Clause 30.0 Fixed: _____ Value related: _____ Time related: _____	Item			
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31	<p><u>PAYMENT</u></p> <p>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p> <p>Clause 31.8 is amended by replacing it with the following two alternative clauses:</p> <p>Alternative A</p> <p>31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Alternative B</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			
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<p>31.8(B) Where security as a payment reduction in terms of 14.7 has been selected, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:</p> <p>31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion</p> <p>31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion</p> <p>31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6</p> <p>31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate</p> <p>Clause 31.12 is amended by deleting the following:</p> <p>Payment shall be subject to the employer giving the contractor a tax invoice for the amount due</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item	R	Carried to Collection
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32	<p>A32.0 ADJUSTMENT TO THE CONTRACT VALUE</p> <p>Clause 32.0</p> <p>Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:</p> <p>"due to no fault of the contractor"</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item			
33	<p>A33.0 RECOVERY OF EXPENSE AND LOSS</p> <p>Clause 33.0</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item			
34	<p>A34.0 FINAL ACCOUNT AND FINAL PAYMENT</p> <p>Clause 34.0</p> <p>Clause 34.1 is amended by removing "#" next to 34.1</p> <p>Clause 34.2 is amended by inserting "#" next to 34.2</p> <p>Clause 34.8 is amended by deleting the words "where security as a fixed construction guarantee in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"</p> <p>Clause 34.13 is amended by replacing "seven (7) calendar days" with "twenty-one (21) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item			
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35	<p>A35.0 PAYMENT TO OTHER PARTIES</p> <p>Clause 35.0</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>				
36	<p><u>CANCELLATION</u></p> <p>A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT</p> <p>Clause 36.0</p> <p>Clause 36.1 is amended by the addition of the following clauses:</p> <p>36.1.3 refuses or neglects to comply strictly with any of the conditions of contract</p> <p>36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>36.1.5 in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"</p> <p>Clause 36.0 is amended by the addition of the following clause:</p>	Item			
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37	<p>36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE</p> <p>Clause 37.0</p> <p>Clause 37.3.5 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 37.0 is amended by the addition of the following clause:</p> <p>37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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38	<p>A38.0 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT</p> <p>Clause 38.0</p> <p>Clause 38.5.4 is amended by replacing "ninety (90)" with "one hundred and twenty (120)"</p> <p>Clause 38.0 is amended by the addition of the following clause:</p> <p>38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item				
39	<p>A39.0 CANCELLATION - CESSATION OF THE WORKS</p> <p>Clause 39.0</p> <p>Clause 39.3.5 is amended by the addition of the following at the end of the sentence:</p> <p>"within one hundred and twenty (120) working days of completion of such a report"</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>					Item
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40	<p><u>DISPUTE</u></p> <p>A40.0 DISPUTE SETTLEMENT</p> <p>Clause 40.0</p> <p>Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"</p> <p>Clause 40.6 is amended by removing the reference to:</p> <p>No clause</p> <p>Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:</p> <p>Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p> <p><u>SUBSTITUTE PROVISIONS</u></p>	Item		
41	<p>A41.0 STATE CLAUSES</p> <p>Clause 41.0</p> <p>Fixed: _____</p> <p>Value related: _____</p> <p>Time related: _____</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

42	<p><u>CONTRACT VARIABLES</u></p> <p>A42.0 THE SCHEDULE (DPW-04EC)</p> <p>Clause 42.0</p> <p>Tenderers are referred to the Contract Data C1.3 for variables pertaining to this contract</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>Clause 42.0 - The schedule : Pre-tender information</p> <p>Information necessary for the completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p> <p>42.1 CONTRACTING AND OTHER PARTIES</p> <p>42.1.1 Employer: Department of Health (North West Province)</p> <p style="padding-left: 40px;">CNR. SEKAME & FIRST STREET NEW OFFICE PARK MAHIKENG 2745 TEL: 018 391 4550</p> <p>42.1.2 Agent (1) Project Manager</p> <p>GT Chaane Quantity Surveyors and Project Managers 51 Tillard Street Mahikeng 2745 Tel: 018 381 2021</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	Item			
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42.1.3 Agent (2): Architect				
Phenominal Architects 199 Doreen Street Pretoria 0083 Tel: 086 111 2431				
42.1.4 Agent (3) MM Sakonda & Associates Agent's service: Quantity Surveyors Address: P O Box 4785 Polokwane,0700 Code: 0001 Tel: 015 291 5662 Fax: 015 291 5740 E-mail: andsenmwale@yahoo.com				
42.1.5 Agent (4) Civil and Structural Engineers				
Black Jills Consulting Engineers Eastwood Office Park Protea House 270 Lynnwood Service Road Tel: 012 745 2000				
42.1.6 Agent (5) Electrical Engineer				
IGS CONSULTING ENGINEERS 1 st Floor Office, Block 31, Cambridge Office Park, 5 Bauhinia Street, Highveld Technopark, Centurion, 0157 Tel: 087 233 9125				
42.1.7 Agent (6) Mechanical Engineer				
GS CONSULTING ENGINEERS 1 st Floor Office, Block 31, Cambridge Office Park, 5 Bauhinia Street, Highveld Technopark, Centurion, 0157 Tel: 087 233 9125				
Carried to Collection			R	
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42.2 CONTRACT DETAILS				
42.2.1 Works Description:				
Renovations to Kitchen Building Including Electrical, Mechanical Installations and Associated External Works at Witrand Psychiatric Hospital				
42.2.2 Site description - The site is located at the existing Witrand Psychiatric Hospital in Potchefstroom within the JB Marks Local Municipality of the North West Province in the Republic of South Africa . The site address is as follows:				
02 Deppe Street Dassirand Potchefstroom 2520				
Coordinates:				
26.6897° S 27.0749° E				
42.2.3 Work or installations by direct contractors:				
1. As described in the bills of quantities				
Carried to Collection				
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42.2.4	This agreement is for a government contract where there are specific options that are applicable to a State organ only				
	1. The interest rate payable will be the prevailing rate determined by the South African Revenue Services from time to time				
	Yes				
	2. Lateral support insurance to be effected by the contractor				
	N/A				
	3. Payment will be made for materials and goods				
	Yes				
	4. Dispute resolution by litigation				
	No				
	5. Extended defects liability period applicable to the following elements:				
	<u>Mechanical Installation HVAC, 1 year plus 4years maintenance contract</u>				
	N/A				
42.2.5	Date on which possession of the site is intended to be given:				
	As indicated in the Schedules elsewhere				
42.2.6	Period for the commencement of the works after the contractor takes possession of the site				
	10 working days				
42.2.7	For the works as a whole . Intended date of practical completion and the penalty per calendar day				
	As indicated in the Schedules elsewhere				
	Penalty Amount 0.05% of contract value per day				
	Amount <i>R.....Penalty</i>				
	Carried to Collection				
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42.2.8 For the works in sections : Intended date of practical completion and the penalty per calender day				
N/A				
42.2.9 The law applicable to this agreement shall be that of South Africa				
<u>42.3 INSURANCES</u>				
42.3.1 Contract works insurance to be effected by:				
<i>Contractor:</i>				
<i>For the Contract Sum plus 20%</i>				
<i>With a deductible of R 10,000.00.</i>				
42.3.2 Supplementary insurance is required: Existing buildings to be insured by the contractor for R20,000,000.00				
<i>With a deductible of R 10,000.00.</i>				
YES				
42.3.3 Public liability insurance to be effected by:				
<i>Contractor:</i>				
<i>For the Sum of R 5,000,000.00.</i>				
<i>With a deductible of of R5,000.00.</i>				
42.4.1 Waivers of contractors lien or right of continuing possession is required				
YES				
Carried to Collection			R	
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42.4 DOCUMENTS				
42.4.2 Number of construction document copies to be supplied to the contractor free of charge:				
3 Number of				
42.4.3 Bills of Quantities/schedule of rates drawn up in accordance with the Standard System of Measuring Building Work - 1999 Sixth Edition (Revised) EXCEPT FOR Electrical and Mechanical Works which are measured in accordance with SABS 1200				
42.4.4 On acceptance of the tender the bills of quantities/lump sum document is to be submitted within working days				
5 Number of				
42.4.5 JBCC Engineering General Conditions are to be included in the contract documents :				
No				
42.4.6 The contract value is to be adjusted using CPAP indices				
YES				
Base month for CPAP				
DURING TENDERS CLOSE	MONTH WHICH			
42.4.7 Details of changes made to the provision of JBCC standard documentation: [An addendum is to be attached should the space provided be insufficient]				
Payment within 14 days in lieu of 7 days by employer				

	<p><u>SECTION B: JBCC PRELIMINARIES</u></p> <p><u>B1.0 DEFINITIONS AND INTERPRETATION</u></p> <p>43 <i>B1.1 Definitions and interpretation</i></p> <p>See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section</p> <p>Fixed: _____ Value related: _____ Time related: R _____</p> <p><u>B2.0 DOCUMENTS</u></p> <p>44 <i>B2.1 Checking of documents</i></p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>45 <i>B2.2 Provisional bills of quantities</i></p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>46 <i>B2.3 Availability of construction documentation</i></p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>47 <i>B2.4 Interests of agents</i></p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	Item		
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48	B2.5 Priced documents Fixed: _____ Value related: _____ Time related: _____	Item			
49	B2.6 Tender submission Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)" Fixed: _____ Value related: _____ Time related: _____	Item			
	<u>B3.0 THE SITE</u>				
50	B3.1 Defined works area Fixed: _____ Value related: _____ Time related: _____	Item			
51	B3.2 Geotechnical investigation Fixed: _____ Value related: _____ Time related: _____	Item			
52	B3.3 Inspection of the site Fixed: _____ Value related: _____ Time related: _____	Item			
	Carried to Collection			R	
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53	B3.4 Existing premises occupied Fixed: _____ Value related: _____ Time related: _____	Item			
54	B3.5 Previous work - dimensional accuracy Fixed: _____ Value related: _____ Time related: _____	Item			
55	B3.6 Previous work - defects Fixed: _____ Value related: _____ Time related: _____	Item			
56	B3.7 Services - known Fixed: _____ Value related: _____ Time related: _____	Item			
57	B3.8 Services - unknown Fixed: _____ Value related: _____ Time related: _____	Item			
58	B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____	Item			
Carried to Collection			R		
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59	B3.10 Articles of value Fixed: _____ Value related: _____ Time related: _____	Item			
60	B3.11 Inspection of adjoining properties Fixed: _____ Value related: _____ Time related: _____	Item			
<u>B4.0 MANAGEMENT OF CONTRACT</u>					
61	B4.1 Management of the works Fixed: R _____ Value related: _____ Time related: R _____	Item			
62	B4.2 Programme for the works Fixed: R 20 000.00 Value related: _____ Time related: R 30 000.00	Item			
63	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item			
64	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item			
Carried to Collection			R		
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65	<p>B4.5 Labour and plant records</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
	<p><u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u></p>				
66	<p>B5.1 Samples of materials</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
67	<p>B5.2 Workmanship samples</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
68	<p>B5.3 Shop drawings</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
69	<p>B5.4 Compliance with manufacturers' instructions</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
	<p><u>B6.0 TEMPORARY WORKS AND PLANT</u></p>				
70	<p>B6.1 Deposits and fees</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
	<p style="text-align: right;">Carried to Collection</p>			R	
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71	B6.2 Enclosure of the works Fixed: R _____ Value related: _____ Time related: R _____	Item		
72	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item		
73	B6.4 Plant, equipment, sheds and offices Fixed: R _____ Value related: _____ Time related: R _____	Item		
74	B6.5 Main notice board Fixed: R _____ Value related: _____ Time related: _____	Item		
75	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B7.0 TEMPORARY SERVICES</u>			
76	B7.1 Location Fixed: _____ Value related: _____ Time related: _____	Item		
Carried to Collection			R	
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77	B7.2 Water Fixed: R _____ Value related: _____ Time related: R _____	Item			
78	B7.3 Electricity Fixed: R _____ Value related: _____ Time related: R _____	Item			
79	B7.4 Telecommunication facilities Fixed: R _____ Value related: _____ Time related: R _____	Item			
80	B7.5 Ablution facilities Fixed: R _____ Value related: _____ Time related: R _____	Item			
	<u>B8.0 PRIME COST AMOUNTS</u>				
81	B8.1 Responsibility for prime cost amounts Fixed: _____ Value related: _____ Time related: _____	Item			
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>				
82	B9.1 General attendance Fixed: _____ Value related: _____ Time related: _____	Item			
	Carried to Collection			R	
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83	B9.2 Special attendance Fixed: _____ Value related: _____ Time related: _____	Item		
84	B9.3 Commissioning - fuel, water and electricity Fixed: _____ Value related: _____ Time related: _____	Item		
<u>B10.0 FINANCIAL ASPECTS</u>				
85	B10.1 Statutory taxes, duties and levies Fixed: _____ Value related: _____ Time related: _____	Item		
86	B10.2 Payment for preliminaries Fixed: _____ Value related: _____ Time related: _____	Item		
87	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		
Carried to Collection			R	
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88	B10.4 Payment certificate cash flow Fixed: _____ Value related: _____ Time related: _____	Item			
	<u>B11.0 GENERAL</u>				
89	B11.1 Protection of the works Fixed: _____ Value related: _____ Time related: _____	Item			
90	B11.2 Protection / isolation of existing / sectionally occupied works Fixed: _____ Value related: _____ Time related: _____	Item			
91	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____	Item			
92	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____	Item			
93	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item			
	Carried to Collection			R	
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94	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item			
95	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item			
96	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item			
97	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item			
98	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item			
99	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item			
Carried to Collection			R		
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100	<p>B11.12 Tenant installations</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>			
101	<p><u>B12.0 SCHEDULE OF VARIABLES</u></p>			
	<p>B12.1 Schedule of variables</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>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</p> <p>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</p> <p>12.1 PRE-TENDER INFORMATION</p> <p>12.1.1 Provisional bills of quantities [2.2] The quantities are provisional YES</p> <p>12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i> YES</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

<p>12.1.3 Interests of agents [2.4] Details:</p>	<p>Project Manager</p>	<p>GT Chaane Quantity Surveyors and Project Managers 51 Tillard Street Mahikeng 2745 Tel: 018 381 2021</p>	<p>Architect</p>	<p>Phenominal Architects 199 Doreen Street Pretoria 0083 Tel: 086 111 2431</p>	<p>Quantity Surveyor</p>	<p>MM Sakonda and Associates 15 President Paul Kruger Street Polokwane 0700 Tel: 015 291 5662</p>	<p>Civil and Structural Engineers</p>	<p>Black Jills Consulting Engineers Eastwood Office Park Protea House 270 Lynnwood Service Road Tel: 012 745 2000</p>	<p>12.1.4 Defined works area [3.1] Details: See site plan and restrictions of movement of personnel to be defined by the principal agent</p>	<p>12.1.5 Geotechnical investigation [3.2] Details: A geotechnical investigation will be available from the project managers</p>	<p>Carried to Collection</p>	<p>R</p>	<p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>
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<p>12.1.6 Existing premises occupied [3.4] Specific requirements: The Existing premises will be occupied for the duration of the contract and the contractor is to ensure that the occupants are not disturbed in anyway</p> <p>12.1.7 Previous work - dimensional accuracy [3.5] Details: There are existing buildings on the premises and the contractor is urged to verify dimensions before proceeding with any works</p> <p>12.1.8 Previous work - defects [3.6] Details:Unknown, but the contractor is to verify</p> <p>12.1.9 Services - known [3.7] Details:There are all services in place</p> <p>12.1.10 Protection of trees [3.9] Specific requirements:</p> <p>12.1.11 Inspection of adjoining properties [3.11] Specific requirements:</p> <p>12.1.12 Enclosure of the works [6.2] Specific requirements:The area of the works is to be fenced off and covered with shadenet</p> <p>12.1.13 Offices [6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times</p>			
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<p>12.1.14 Main notice board [6.5] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, 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</p> <p>12.1.15 Subcontractors' notice board [6.6] A notice board is required NO Specific requirements:</p> <p>12.1.16 Water [7.2] Option A (by contractor) YES Option B (by employer - free of charge) No Option C (by employer - metered) NO</p> <p>12.1.17 Electricity [7.3] Option A (by contractor) YES Option B (by employer - free of charge) NO Option C (by employer - metered) NO</p>			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		<p style="text-align: center;">R</p>	

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12.1.18 Telecommunications	[7.4] Telephone	YES			
	Facsimile	YES			
	E-mail	YES			
12.1.19 Ablution facilities	[7.5] Option A (by contractor)	YES			
	Option B (by employer)	NO			
12.1.20 Protection of existing/sectionally occupied works	[11.2] Protection is required	YES			
12.1.21 Special attendance	[9.2] Subcontractor (1) details: None				
12.1.22 Protection of the works	[11.1] Specific requirements:				
12.1.23 Disturbance	[11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent				
12.1.24 Environmental disturbance	[11.6] Specific requirements:				
12.2 POST-TENDER INFORMATION					
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<p>12.2.1 Payment of preliminaries [10.2] Option A (prorated) YES/NO</p>					R
<p>12.2.2 Adjustment of preliminaries [10.3] Option A (three categories) YES/NO</p>					
<p>Option B (calculated) YES/NO</p>					R
<p>Option B (detailed breakdown) YES/NO</p>					
<p>12.2.3 Additional agreed preliminaries items Details:None</p>					R
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>					R

	<p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p>Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item</p> <p>102 C1.0 CONTRACT DRAWINGS</p> <p><i>bills of quantities</i></p> <p>* 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</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p>103 C2.0 GENERAL PREAMBLES</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	Item		
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104	<p>C3.0 TRADE NAMES</p> <p>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</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
105	<p>C4.0 IMPORTED MATERIALS AND EQUIPMENT</p> <p>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)</p> <p>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)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

106	<p>C5.0 VIEWING THE SITE IN SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
107	<p>C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
108	<p>C7.0 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
Carried to Collection					
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109	<p>C8.0 SECURITY CHECK OF PERSONNEL</p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
110	<p>C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS</p> <p>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</p> <p>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</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item			
Carried to Collection					
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111	<p>C10.0 HIV/AIDS AWARENESS</p> <p>It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / 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</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>C10.1 AWARENESS CHAMPION</p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	Item		
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C10.2 AWARENESS WORKSHOPS	Item	R
<p>Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		
C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.	Item	
<p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		
C10.4 ACCESS TO CONDOMS	Item	
<p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>		
Carried to Collection		
<p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		

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	R
Carried to Collection			R	
Section No. 1 Bill No 1 - Preliminaries	PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18			

112	<p>C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	Item		
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113	<p>C12.0 METHODOLOGY STATEMENT AND PLAN</p> <p>The contractor shall prepare and submit together with his tender a complete statement of the methodology to be used for the construction and completion of the project</p> <p>It is required of the contractor to thoroughly study the plans and ensure that the plan is comprehensive in all aspects for the employer to adjudicate the the tender fairly.</p> <p>There will be a compulsory site inspection</p> <p>The contractor must take note that premises are currently occupied as the Hospital will remain in operation throughout the duration of the contract.</p> <p>The contractor must make all prior necessary arrangements with the hospital and the principal agent should they work in areas where the hospital activities are in use.</p> <p>The contractor and personnel should under no circumstances cause disturbance to the functioning of the hospital</p> <p>It is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Bill No 1 - Preliminaries PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	Item		
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UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
DR KENNETH KAUNDA
NORTH WEST

Section No. 1				
Bill No. 1				
Bill No 1 - Preliminaries				
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**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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<p>Section No. 1</p> <p>Bill No. 1</p> <p>Bill No 1 - Preliminaries</p> <p><u>COLLECTION</u></p>				
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**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 1</u></p> <p><u>DEMOLITIONS</u></p> <p><u>(WORK GROUP 102)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Allow for the following requirements to the satisfaction of the Principal Agent</u></p> <p><u>Site visit</u></p> <p>Tenderers are to visit and view the site and existng structures to be demolished to thoroughly acquaint themselves with the nature of demolitions, the nature and extent of the work and the conditions under which the works are to be done</p> <p><u>Existing structures</u></p> <p>In taking down and removing existing work, the utmost care shall be observed to prevent any structural or other damage to the adjoining buildings and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work. Any damage, deforming and/or defaced to the structure and/or building as well as the rectification of same will be for the Contracor's account.</p>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No 1 - Demolitions PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

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	<p><u>Existing Services</u></p> <p>Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative Agent if any disconnection or alterations become necessary. Any damage to such services shall be to the contractors account</p> <p><u>Dust and noise</u></p> <p>The Contractor is to take all necessary precautions, to minimise noise levels and frequently watering of the works to minimise any nuisance from dust and to ensure the least interference with the general routine of the occupants and operation of the premises including all necessary labour, materials, etc. for so doing and</p> <p><u>Disposal of debris</u></p> <p>The Contractor shall be responsible for the regular cleaning away all rubble, debris, rubbish, unusable materials, etc. as the work proceeds and for leaving the works in a clean and satisfactory state upon completion suitable for use and occupation, including all necessary labour, materials or plant, etc. for so doing</p> <p><u>Old materials</u></p> <p>Old materials from the alterations, except where described shall remain the property of the client.</p> <p><u>Old materials to be carted away</u></p> <p>Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, etc. must regularly be carted away from site and not be allowed to accumulate on or around the site.</p>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No 1 - Demolitions PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

	<p><u>Handing over of materials</u></p> <p>Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Representative/ Agent, such materials or articles shall be properly stored by the Contractor until handing over thereof. The Contractor must obtain an official receipt listing materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Client for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p> <p><u>Temporary support to openings through existing walls</u></p> <p>Making openings, altering openings in existing walls and removing lintols above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling strutting, turning pieces, etc. to wall openings is deemed to be included in the Contractor's rates.</p> <p><u>Electrical And Mechanical</u></p> <p>Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included. Contractor to note items with bar-codes (asset numbers) cannot be removed without prior arrangement with authorities</p> <p>NOTE:-</p> <p>Contractor to note that items with bar-codes, cannot be disposed or removed from site prior to arranging with Hospital Authorities</p>			
	Carried to Collection		R	
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UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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6	Slabs, aprons and channels etc <u>Take out/off remove and dispose the following electrical/mechanical existing works. (LI)</u>	m3	8		
7	Decommission and remove existing electrical installation equipment		Item		
8	Decommission and remove existing mechanical installation equipment <u>Demolitions in confined spaces</u>		Item		
9	Taking down and remove complete existing "Emergency Care Unit" structure approximately 800mm ² and 5m high including walls, foundations walls, footings, slabs including carting away or handing over all relevant materials to the authorities and prepare ground by filling and compacting for new construction (rates to include for all machinery hired for this task) <u>Demolitions open spaces</u>		Item		
10	Taking down and remove complete existing "Casualty Ward" structure approximately 700mm ² and 5m high including roof structure of timber, roof coverings, walls, foundations walls, footings, slabs including carting away or handing over all relevant materials to the authorities and prepare ground by filling and compacting for new construction (rates to include for all machinery hired for this task) <u>Taking down and removing covered walkways complete and cart away</u>		Item		
11	Taking down and remove complete existing "Existing Walkway" 2,5mm ² and 5m high including hollow section steel columns, roof structure of steel trusses and purlins, roof covering, foundations walls, footings, slabs including carting away or handing over all relevant materials to the authorities and prepare ground by filling and compacting for new construction (rates to include for all machinery hired for this task)	m	40		
				R	
Carried to Collection					
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UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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<u>Opening into existing palisade security fence</u>					
12	Form temporary opening for pedestrian access gate into existing concrete palisade fence 1500mm long and approximately 2m high re-instate upon completion and hand over in good condition to client	No	1		
13	Vehicular access gate 6000 x 2000mm high overall double leaf comprising 76 x 76 x 3mm posts in concrete base, 76 x 50 x 3mm thick hollow section mild steel frame with one middle horizontal rail and 30 x 30 x 2mm thick "Devil's fork" pales at 100mm centres maximum welded on to frame including locking mechanism and 63mm padlock	No	1		
14	Pedestrian gate 1500 x 2000mm high overall comprising, 76 x 73 x 3mm thick post and concrete base, 76 x 50 x 3mm thick hollowsec mild steel frame with one middle horizontal rail and 30 x 30 x 2mm thick "Devil's fork" pales at 100mm centres maximum welded on to frame including locking mechanism and 63mm padlock	No	1		
<u>RE - DIRECTING OF EXISTING WORK</u>					
<u>UNDERGROUND SERVICES</u>					
15	Allow an amount of R 200,000.00 for carefully excavating existing services, making temporary connections and re-directing of services to other surrounding structures to the satisfaction of the principal agent		Item		
<u>MAKING GOOD OF FINISHES ETC</u>					
16	Allow an amount of R 150,000.00 for making good complete all trades or services disturbed to other surrounding structures arising from demolition works to the satisfaction of the principal agent		Item		
Carried to Collection				R	
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UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Item No		Quantity	Rate	Amount
	<p>BILL NO. 2</p> <p>EARTHWORKS (PROVISIONAL)</p> <p>(WORK GROUP 104)</p> <p>PREAMBLESFor preambles refer to "Department of Public Works: Specification of Materials and Method to be used - PW371"</p>			
	<p>NOTE</p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Filling material (General)</p> <p>It will be, at all times, required from the Contractor to apply and execute strict quality control on all filling material used</p> <p>Samples of potential fill materials obtained from excavations, trench excavations, etc,are to be submitted to and approved by the Engineer prior the re-use thereof as "filling"</p> <p>All filling obtained from a commercial source should comply to a minimum G6 standard and to be approved by Engineer before haulage to site.</p> <p>Should any material be found unsuitable and the use thereof be disapproved, such material shall be disposed and approved material must be sourced and imported.</p> <p>Filling in general shall be compacted to the prescribed percentage Mod AASHTO density</p>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No 2 - Earthworks PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

<p><u>Filling to form earth mattresses, in sub-layers, under floors, etc</u></p>	<p>All filling in layers under surface beds, in sub-layers, to form earth mattresses, etc. shall be done with materials specified and according to methods prescribed by the SABS 1200ME Sub-base Specification.</p>	<p>The aforesaid specification was drawn up to cover activities normally encountered on civil engineering work, which is equally applicable on the filling details and requirements prescribed for this project</p>	<p>The said specification, although not issued with, shall be regarded to form part of these Bills of Quantities. The Contractor shall obtain a copy of the said specification from the South African Bureau of Standards and be kept on site at all times</p>	<p><u>CBR and Indicator tests</u></p>	<p>Density tests for monitoring filling shall be done at the minimum prescribed frequencies per each 150mm thick layer of filling placed.</p>	<p>The Contractor is to note that all necessary tests (i.e CBR and indicator tests, etc) are to be conducted for all filling material, whether obtained from the excavations or to be imported from an approved commercial source.</p>	<p>Results of these tests are to be submitted to and approved by Engineer prior commencement of any placement thereof and/or filling done therewith</p>	<p style="text-align: right;">Carried to Collection</p>	<p style="text-align: right;">R</p>	<p>Section No. 2</p>	<p>Bill No 2 - Earthworks</p>	<p>PROVISIONAL BILLS OF QUANTITIES</p>	<p>BID NO: NWDOH/PS/08/18</p>

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	<p><u>Density test</u></p> <p>It will be required from the Contractor to execute density tests for monitoring filling at the following minimum frequencies per each filling layer placed:</p> <p>- Filling under surface beds 1 Test per 25m2 plan area per each 150mm thick layer</p> <p>- Filling behind retaining walls: 1 Test per each 10m length of retaining wall</p> <p>Results of density test executed are to be submitted to and approval obtained from the Engineer prior commencement of any subsequent fill layers and/or other work</p>				
	<p style="text-align: right;">Carried to Collection</p>		R		
	<p>Section No. 2 Bill No 2 - Earthworks PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>				

**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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	<p><u>Carting away of excessive and/or unsuitable excavated material</u></p> <p>Descriptions for "carting away excessive or unsuitable excavated material from site" shall be deemed to include the loading and hauling of excessive or unsuitable excavated material to a suitable dumping site, which has to be located by the Contractor, off the hospital premises</p> <p>The location of the intended dumping site will be subjected to the prior written approval of the local authority (Municipality)</p> <p>All materials for excavations marked for caring away shall be cart at Municipal designated dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</p> <p>The contractor will also be liable to remove upon completion, rehabilitate all those areas of the dumping site used for dumping/spoiling by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the full satisfaction of the Engineer/Principal Agent</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained</p> <p><u>NOTE: All materials from excavations marked from carting away shall be cart at Municipal designated dumping site and proof of dumping to be submitted to the Safety / Enviromental officer</u></p> <p><u>EXCAVATIONS, FILLING, ETC.</u></p> <p><u>Excavate in earth below natural ground level, reduced or made up ground level, not exceeding 2m deep, for:</u></p> <table><tr><td>1</td><td>Trenches</td><td>m3</td><td>463</td></tr><tr><td>2</td><td>Holes</td><td>m3</td><td>24</td></tr></table> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 2 - Earthworks PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	1	Trenches	m3	463	2	Holes	m3	24				
1	Trenches	m3	463										
2	Holes	m3	24										

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	<u>Extra over trench and hole excavations in earth for excavation in</u>				
3	Soft rock	m3	23		
4	Hard rock	m3	12		
	<u>Extra over all excavations for carting away</u>				
5	Surplus or unwanted excavated material to stock piles on site or to a dumping site to be located by the contractor	m3	246		
	<u>Risk of collapse of excavations</u>				
6	Sides of trench excavations not exceeding 1,5m deep	m2	1 240		
7	Sides of hole excavations not exceeding 1,5m deep	m2	120		
	<u>Keeping excavations free of water</u>				
8	Allow for bailing, pumping or otherwise keeping all excavations free from water		Item		
	<u>Earth filling obtained from the excavations compacted to 93% Mod AASHTO density</u>				
9	In backfilling to trenches, holes, etc	m3	217		
10	Under floors, steps, pavings, etc	m3	30		
	<u>Approved earth filling supplied by the contractor, spread, levelled, watered, and compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick (Rate/m3 shall be for compacted material and not loose material)</u>				
11	Under floors, steps, pavings, etc	m3	545		
12	Under floors to form ramps	m3	5		
	Carried to Collection			R	
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	<u>Sand bed</u>			
13	50mm Thick dry, clean, washed river sand layer evenly spread over filling (elsewhere), levelled, watered and rammed to receive waterproofing membrane (elsewhere) under solid floors	m2	1 556	
	<u>Compaction of surfaces</u>			
14	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 100% Mod AASHTO density	m2	1 556.0	
	<u>Prescribed density tests on filling (no payment for compaction shall be allowed until compaction results are produced, only results which have passed the test shall be paid for)</u>			
15	Modified AASHTO Density test	No	36	
	<u>SOIL POISONING</u>			
	<u>Approved insecticide solutions shall be mixed on site in the presence of clerk of works/engineer/principal agent in strict accordance with the manufacturers/suppliers specifications</u>			
	<u>Soil insecticide under a 5 year guarantee by an approved firm of registered specialists</u>			
16	To bottom and sides of trenches, holes etc	m2	1 494	
17	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1 556	
18	Under aprons,etc	m2	150	
	<u>Weedkiller, "Hyvar X' or other approved by a firm of specialist</u>			
19	Under aprons,etc	m2	150	
	Carried to Collection			
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Total Brought Forward from Page No.	72			
Total Brought Forward from Page No.	73			
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Item No		Quantity	Rate	Amount	
	<p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>(WORK GROUP 110)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p>				
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R		

	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Concrete test cubes</u></p> <p>Descriptions and tendered rates for concrete strength test cubes, as required under clause 7, "Tests" of SABS 1200 G, shall be deemed to cater for all the cost of providing cube moulds necessary for the purpose, making, storing and sending thereof to an approved laboratory for testing, paying all charges in connection therewith and for submitting test results to Principal Agent</p> <p>All concrete strength test cubes, each 150 x 150 x 150mm shall be prepared in a set of three</p> <p>It will be required from the contractor to prepare concrete strength test cube sets for each section (radiology, dental etc) at the following minimum frequencies:</p> <ul style="list-style-type: none"> - One set of three cubes for every 20m3, thereof, of concrete cast per day, <li style="text-align: center;">or - One set of three cubes for each batch of concrete cast per event as directed by the Clerk Of Works. <p>All concrete strength test cubes shall be done on site regardless of ready mix and shall be labelled and the identity thereof (ie. date, concrete strength type, position where batch was cast relative to the area and section identity) shall be properly recorded for future reference.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			<div style="border: 1px solid black; height: 100px; width: 100%;"></div>
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<p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent") for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the Principal Agent for design reasons. Formwork necessitated by irregularities 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 which is made for in "Earthworks"</p>				
<p><u>Test Blocks (Provisional)</u></p> <p>1 Making of 150 x 150 x 150mm concrete strength test cube in sets of three, label and send to an approved laboratory for testing, including paying all charges and submit report to the Principal agent. (Only successful tests will be paid for) Sets 40</p> <p><u>MASS CONCRETE</u></p> <p><u>Unreinforced concrete vertically to foundation walls</u></p> <p><u>20MPa/19mm concrete</u></p> <p>2 Surface blinding under strip footing and column bases m3 24</p> <p>3 In surface beds to falls cast in bays over waterproofing membrane (elsewhere) m3 7</p> <p>4 In aprons cast in panels m3 12</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			<div></div> <div>R</div> <div></div>	

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5	In channels	m3	16		
	<u>25MPa/19mm concrete</u>				
6	Cast against excavated surfaces	m3	2		
	<u>CONCRETE</u>				
	<u>REINFORCED CONCRETE</u>				
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u>				
7	In strip footings against excavated surfaces	m3	164		
8	In bases against excavated surfaces	m3	3		
9	In ramps	m3	7		
10	In surface beds cast in bays over waterproofing membrane (elsewhere)	m3	265		
	<u>Reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days</u>				
11	Suspended Slabs	m3	120		
12	Beams and inverted beams	m3	27		
13	Ring beams	m3	12		
14	Gutters	m3	7		
15	Columns	m3	2		
	<u>SUNDRIES</u>				
	<u>Finishing surfaces of concrete smooth with a woodfloat</u>				
16	Surface beds, slabs, etc	m2	1 556		
				R	
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>					

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<u>FORMWORK</u>					
<u>(WORK GROUP 111)</u>					
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>					
<u>Rough formwork to</u>					
19	Soffit of slabs propped up exceeding 1.5m and not exceeding 3.5m high	m2	429		
20	Sides of beams and inverted beams	m2	188		
21	Sides of columns	m2	19		
22	Sides ring beams exceeding 1.5 and not exceeding 3.5m high	m2	54		
23	Sides and soffit of gutters	m2	45		
24	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	170		
25	25 x 25mm Chamfers along top/bottom of beam	m	122		
26	110mm Diameter to form hole for cable sleeves	No	13		
27	160mm Diameter to form hole for cable sleeves	No	7		
<u>Sundries</u>					
28	300mm Hoop iron anchors shot pinned to concrete and built into brickwork	No	250		
<u>MOVEMENT JOINTS ETC</u>					
<u>Expansion joints</u>					
29	Movement joint not exceeding 300mm high formed of 20mm polystyrene placed vertically in position between concrete surface including approved sealant	m	120		
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30	<p><u>Movement joints</u></p> <p>Isolation joint formed of 15mm bitumen impregnated softboard not exceeding 300mm high built in vertically between brickwork and concrete and sealed with polysulphide sealing compound externally</p>	m	1 364	
	<p><u>Saw cut joints including polysulphide sealing compound</u></p> <p>3mm Wide x 40mm Deep saw cut joints in top of concrete</p>	m	1 400	
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 3 - Concrete, formwork and reinforcement PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>				R

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	<u>REINFORCEMENT (PROVISIONAL)</u>				
	<u>(WORK GROUP 114)</u>				
	<u>Mild steel reinforcement to structural concrete work</u>				
32	R8 Mild steel rod reinforcement	t	12.00		
33	R10 Mild steel rod reinforcement	t	7.50		
	<u>High tensile steel reinforcement to structural concrete work</u>				
34	Y10 High tensile steel rod reinforcement	t	7.50		
35	Y12 High tensile steel rod reinforcement	t	10.00		
36	Y16 High tensile steel rod reinforcement	t	18.00		
37	Y20 High tensile steel rod reinforcement	t	6.00		
38	Y25 High tensile steel rod reinforcement	t	2.00		
39	High tensile Y16 steel rod 700mm long dowels at 1000mm centres in construction joints	No	228		
	<u>Fabric reinforcement</u>				
40	Type Ref 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	40		
41	Type Ref. 245 Mesh reinforcement laid in surface beds with 300mm wide side and end laps (measured net)	m2	20		
42	Type Ref. 395 Mesh reinforcement laid in surface beds with 300mm wide side and end laps (measured net)	m2	1 556		
	Carried to Collection			R	
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Bill No 3 - Concrete, formwork and reinforcement				
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>(WORK GROUP 118)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Wall ties</u></p> <p>Descriptions and rates for cavity walls specified to include wire ties shall, unless otherwise specified, be deemed to include at least five metal wire ties, evenly spaced, per square metre brickwork. Metal wall ties shall:</p> <ul style="list-style-type: none"> - Comply with SABS 28 and of the butterfly or the modified PWD type - Of suitable lengths to ensure that ends are built at least 75mm deep into brickwork. 			
	Carried to Collection		R	
	<p>Section No. 2 Bill No 4 - Masonry PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

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	<p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour. Contractor to verify size uniformity prior to laying</p> <p><u>Pointing</u></p> <p>Description of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p>																																									
	<p><u>SUBSTRUCTURE (PROVISIONAL)</u></p> <p><u>Brickwork</u></p> <p><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar in foundations</u></p> <table><tr><td>1</td><td>Brick columns</td><td>m3</td><td>0.2</td></tr><tr><td>2</td><td>One brick walls</td><td>m2</td><td>449</td></tr><tr><td>3</td><td>230mm hollow two skin cavity brick wall filled with and including 15MPa/20mm concrete</td><td>m2</td><td>62</td></tr></table> <p><u>SUPERSTRUCTURE</u></p> <p><u>Brickwork of NFP bricks (7 MPa nominal compressive strength) in class II mortar</u></p> <table><tr><td>4</td><td>Brick Column</td><td>m3</td><td>1</td></tr><tr><td>5</td><td>Half brick walls</td><td>m2</td><td>760</td></tr><tr><td>6</td><td>Half brick linings to concrete</td><td>m2</td><td>3</td></tr><tr><td>7</td><td>Half brick lining to steel</td><td>m2</td><td>5</td></tr><tr><td>8</td><td>One brick walls</td><td>m2</td><td>1 785</td></tr><tr><td>9</td><td>One brick walls in parapet walls</td><td>m2</td><td>53</td></tr></table>	1	Brick columns	m3	0.2	2	One brick walls	m2	449	3	230mm hollow two skin cavity brick wall filled with and including 15MPa/20mm concrete	m2	62	4	Brick Column	m3	1	5	Half brick walls	m2	760	6	Half brick linings to concrete	m2	3	7	Half brick lining to steel	m2	5	8	One brick walls	m2	1 785	9	One brick walls in parapet walls	m2	53					
1	Brick columns	m3	0.2																																							
2	One brick walls	m2	449																																							
3	230mm hollow two skin cavity brick wall filled with and including 15MPa/20mm concrete	m2	62																																							
4	Brick Column	m3	1																																							
5	Half brick walls	m2	760																																							
6	Half brick linings to concrete	m2	3																																							
7	Half brick lining to steel	m2	5																																							
8	One brick walls	m2	1 785																																							
9	One brick walls in parapet walls	m2	53																																							
	<p>Section No. 2</p> <p>Bill No 4 - Masonry</p> <p>PROVISIONAL BILLS OF QUANTITIES</p> <p>BID NO: NWDOH/PS/08/18</p>																																									

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10	One brick walls in beamfilling	m2	9		
11	One brick walls in fire walls	m2	226		
12	One brick yard walls	m2	103		
13	230mm Cavity walls	m2	349		
<u>SUNDRIES</u>					
<u>Brick reinforcement in substructure (Provisional)</u>					
14	Brick reinforcement 150mm wide in foundation built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 823		
<u>Brick reinforcement in superstructure</u>					
15	Brick reinforcement 75mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	1 827		
16	Brick reinforcement 150mm wide built into brick walls with sufficient laps at end joints, angles and intersections (measured net)	m	8 385		
<u>Prestressed fabricated lintels</u>					
17	100mm x 70mm Lintel not exceeding 3m long, hoisted into position and laid over opening in brick wall with ends bedded in class II mortar	m	214		
<u>Turning pieces</u>					
18	115mm Wide turning pieces to lintels etc	m	30		
19	230mm Wide turning pieces to lintels etc	m	123		
<u>Movement joints</u>					
20	Movement joint formed of 20mm polystyrene built in vertically between brickwork	m2	10		
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21	<u>Closing cavities</u>				
	Closing 50mm cavity of hollow wall one course high, horizontally with mortar in foundations (<u>Provisional</u>)	m	85		
22	<u>Hoop iron</u>				
	25 x 1mm thick Galvanised hoop iron 300mm Long shot pinned to concrete beams and built into brick work	No	300		
Carried to Collection					
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<u>FACE BRICKWORK</u>					
<u>Equal and approved by the Principal Agent facebricks to match existing (PC R6500/1000 bricks including delivery to site but excluding VAT) pointed with recessed horizontal and vertical joints</u>					
23	Extra over brickwork for facing and pointing in foundation (Provisional)	m2	55		
24	Extra over brickwork for face brickwork	m2	673		
<u>Brick-on-edge header course copings, sills, etc of face bricks pointed with recessed joints on all exposed faces</u>					
25	Extra over brickwork for brick-on-edge header course lintel pointed on face and 115mm soffit	m	124		
26	175mm Wide sill set sloping and slightly projecting	m	124		
27	Coping on top of one brick wall	m	104		
28	Fair raking cutting	m	80		
29	Fair circular cutting for pipes not exceeding 100mm diameter	No	25		
30	Fair circular cutting for pipes exceeding 100mm and not exceeding 200mm diameter	No	15		
<u>FIBRE-CEMENT WINDOW SILLS</u>					
<u>Fibre cement FC77 or equal and approved by the Principal Agent natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>					
31	15 x 150mm Wide cills set flat and slightly projecting	m	124		
<u>PAVING (PROVISIONAL)</u>					
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	<u>100 x 200mm "Concor Bondbrick" or similar approved by the Principal Agent bevelled pre-cast concrete paving (25MPa minimum compressive strength):</u>				
32	60mm Thick natural grey laid in stretcher bond with continuous joint in one direction and interlocking	m2	300		
33	60mm Thick patterned laid in stretcher bond with continuous joint in one direction and interlocking as per Architectural drawings and specifications	m2	80		
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 4 - Masonry PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>					

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Total Brought Forward from Page No.	88			
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Item No		Quantity	Rate	Amount	
	<u>BILL NO. 5</u> <u>WATERPROOFING</u> <u>(WORK GROUP 120)</u> <u>PREAMBLES</u> For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>DAMPPROOFING OF WALLS AND FLOORS</u> <u>SUPPLEMENTARY PREAMBLES</u> Waterproofing to flat concrete roofs shall be installed by an approved firm of "Specialist Contractor" under a " <u>ten year guarantee</u> " all in accordance with the materials supplied and methods employed by Manufacturers				
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u> <u>One layer of type 375 micron Consol Plastics Brikgrip DPC or similar and approved by the Principal Agent embossed damp proof course</u> 1 In walls m2 138 <u>One layer of 250 micron USB green medium density waterproof sheeting sealed at laps with pressure sensitive tape all in accordance with the Manufacturer's instruction</u> 2 Medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing in building m2 1 360 <u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>				
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	<u>"Derbigum" or similar and approved by the Engineer</u>				
	<u>One layer "Derbigum SP4" waterproofing membrane, with 75mm side and 100mm end laps, sealed to bitumen primed surface to falls and crossfalls by 'torchfusion' finished and fully bonded including finishing with two coats bituminous aluminium protective paint</u>				
3	On screed flat floors to slight fall to outlet not exceeding 10 degrees from the horizontal	m2	429		
4	On tops and sides of inverted beams	m2	86		
5	On bottoms and sides of gutters	m2	20		
6	Tops and sides of brick or concrete not exceeding 300mm girth	m	95		
7	Tops and sides of brick or concrete not exceeding 300mm girth in concealed areas	m	42		
8	30 x 30mm Triangular fillet	m	215		
9	Dressing around fullbore outlets, spouts etc.,	No	30		
	<u>PROTECTIVE ROOFING PAINT</u>				
	<u>Two coats heavy duty acrylic emulsion paint</u>				
10	On waterproofing to roofs	m2	429		
11	On tops and sides of inverted beams	m2	86		
12	On waterproofing to gutters	m2	20		
	<u>JOINT SEALANTS ETC</u>				
	<u>Silicone sealing compound including backing cord, bond breaker, primer, etc</u>				
13	Between timber fittings and plastered walls	m	250		
14	Between sanitary fittings and wall tiles	m	80		
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15	<p><u>Natural grey polysulphide sealing compound</u></p> <p>20mm Deep in Expansion joints</p> <p>m</p> <p>120</p> <p>Carried to Collection</p> <p>Section No. 2 Bill No 5 - Waterproofing PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 6</u></p> <p><u>ROOF COVERING</u></p> <p><u>(WORK GROUP 124)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>General</p> <p>All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched</p> <p>Sizes</p> <p>All items are measured net unless otherwise described</p> <p>Flashing, trimming plates, etc</p> <p>Prices to include for all cutting and waste and relevant fixing material, unless otherwise described</p> <p>All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet roof covering where applicable</p>			
	<p><u>ROOF COVERINGS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 6 - Roof Covering PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

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**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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	<u>Concealed fix 0,8mm thick "Brownbuilt Klip-Lok 700" 580mm light industrial Z275 spelter galvanised steel sheeting flashing, three times bent along girth and notched on site to suit roof profile with "Global coat" finish on one side and half Global coat Grey on the other side complete with metal and poly closer without joints 500mm overlay, complete with sealing strips</u>				
4	Ridge Cap 550mm girth 3 times bent and notched on site	m	77		
5	Hip Cap 550mm girth 3 times bent and notched on site	m	4		
6	Headwall flashing 462mm girth 2 times bent and notched on site	m	6		
7	Sidewall flashing 550mm girth 2 times bent and notched on site	m	78		
8	Broad flute closure	m	77		
	<u>0,8mm Z275 "Brownbuilt" spelter galvanised steel sheeting</u>				
9	Fascia or barge angles 500mm girth with "Classicoat" finish on one side	m	232		
Carried to Collection					
Section No. 2 Bill No 6 - Roof Covering PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18					R

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**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>(WORK GROUP 126)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Fixing</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p>Sealing of all abutments</p> <p>All cupboards, counter tops, shelves, etc. abutting walls, tiled surfaces, etc. to be sealed watertight with an approved silicon sealant along all joints</p> <p>Unless described, tendered rates must make provision for this as no additional claims in this regard will afterwards be entertained</p> <p><u>SKIRTINGS</u></p>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No 7 - Carpentry and Joinery PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

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	<u>Flush solid core hardwood doors with concealed hardwood edge and 3mm masonate on both side hung to steel doorframe</u>				
5	40mm Single door size 900 x 2100mm high overall.(D13)	No	15		
6	40mm Single door size 1000 x 2100mm high overall.(D15)	No	2		
7	44mm Double door 1800 x 2100 high with 12mm rebated meeting stiles (D16)	No	2		
	<u>SOLID DOORS, ETC</u>				
	<u>Flush solid core hardwood doors with concealed hardwood edge and 3mm masonate on both side hung to steel doorframe</u>				
8	40mm Rebated double door size 1200 x 2100mm high overall, in two unequal leaves, one leaf size 857 x 2100mm high with view panel including 8mm Africa clear safety glass and the other 343 x 2100mm high.(D11)	No	7		
9	40mm Single door size 900 x 2100mm high overall.(D12)	No	10		
10	40mm Single door size 900 x 2100mm high overall.(D14)	No	10		
11	40mm Single door size 900 x 2100mm high overall, with and including aluminium louvre panel.(D20)	No	9		
12	40mm Double door size 1800 x 2100mm high overall, with two equal leaves and viewing panels including 8mm Africa clear safety glass on each leaf.(D21)	No	3		
13	40mm Rebated double door size 1800 x 2100mm high overall, in two equal leaves.(D16)	No	2		
	Carried to Collection			R	
	Section No. 2 Bill No 7 - Carpentry and Joinery PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

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14	<p><u>SPECIAL DOORS</u></p> <p>40mm Solid fire double door 1600 x 2100mm with rating of 120mins hardboard flush panels with two equal leaves and louvre in each leave.(D06)</p> <p style="text-align: right;">No</p> <p style="text-align: right;">2</p> <p style="text-align: right;">R</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 7 - Carpentry and Joinery PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>				
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Bill No. 7				
Bill No 7 - Carpentry and Joinery				
<u>COLLECTION</u>				
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Total Brought Forward from Page No.	101			
Total Brought Forward from Page No.	102			
Total Brought Forward from Page No.	103			
Total Brought Forward from Page No.	104			
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Section No. 2				
Bill No 7 - Carpentry and Joinery				
PROVISIONAL BILLS OF QUANTITIES				
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>(WORK GROUP 129)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Fixing</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at maximum 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p>Ceilings</p> <p>Unless otherwise described, ceilings shall be deemed to be horizontal</p> <p>Suspended ceilings, bulkheads, etc</p> <p>All suspended ceilings, bulkheads, etc. shall be installed by an approved firm of specialists, all in accordance with the materials supplied and methods employed by Manufacturer</p> <p>Proprietary suspended ceilings</p> <p>Hangers, suspension grids, "lay-in" panels, etc. of</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No 8 - Ceilings, Partitions and access flooring</p> <p>PROVISIONAL BILLS OF QUANTITIES</p> <p>BID NO: NWDOH/PS/08/18</p>			

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	<p>suspended ceilings, bulkheads, etc are to be in accordance with the Manufacturers recommendation</p> <p>Bulkheads</p> <p>Bulkhead are defined as those portions of ceilings which are stepped vertically down or up from the general ceiling level and which generally occur along the perimeter of a room or area</p> <p>Bulkheads have only been described as such where they conform to the above defination and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions do exceed 900mm, such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described, bulkheads shall be deemed to be horizontal along the length</p>				
1	<p><u>INSULATION</u></p> <p><u>"Aerolite" Insulation</u></p> <p>75mm Insulation "Owen Corning Aerolite" flexible non-combustible lightweight (nominal density 10kg/m3) fibreglass reinforced insulation blanket, closely fitted with ends butted firmly and laid loose on top of brandering etc</p> <p style="text-align: right;">m2</p> <p><u>CEILINGS, ETC</u></p> <p><u>NAILED UP CEILINGS</u></p> <p><u>Note:</u></p> <p>The tenderer shall make allowance in the ceilings for electrical light fittings, diffusers, panels, etc and for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p>Tenderers are advised to make allowance in their prices for ceiling subframes where required</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 8 - Ceilings, Partitions and access flooring PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	1 556			
				R	

<u>FIBRE CEMENT CEILINGS</u>				
<u>6mm Skimmed "NUTEC" or similar and approved by the Principal Agent Fibre-cement board fixed to timber branderling.</u>				
2	Ceilings including 38 x 50mm SA pine sawn softwood branderling at 450mm centres	m2	95	
3	Extra over ceiling for opening for 650 x 650 mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	3	
<u>PLASTERED PLASTERBOARD CEILINGS</u>				
<u>SUSPENDED CEILINGS</u>				
<u>Ceilings "BPB Gypsum DonnCeil Gyprex" white vinyl finished gypsum ceiling tiles 12,5mm thick, laminated to glass wool board of 55mm or similar approved by the Principal Agent acoustic ceiling tiles 12,5mm thick, laid on and including Q/T38 White powder coated main tees, cross tees, hold-down clips, wedges, etc., all suspended with galvanized hangers at centers not exceeding 1200mm</u>				
4	600 x 600mm Suspended Ceilings not exceeding 1m below truss members	m2	250	
5	1200 x 600mm Suspended Ceilings not exceeding 1m below steel members	m2	1 211	
<u>"BPB Gypsum" Code LSM25 recessed shadowline cornice pluggged</u>				
6	Type SM25 47 X 35mm pre-painted cornices	m	2 100	
<u>Extra over bulkheads</u>				
7	700 x 350mm deep bulkhead	m	33	
<u>SUNDRIES</u>				
Carried to Collection				R
Section No. 2 Bill No 8 - Ceilings, Partitions and access flooring PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

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8	<p><u>"Fireproof" pyrosafe seal consisting of high density mineral wool panels cut and fixed into the opening around the penetrating services, all joints to be sealed with "Pyrosafe WB" including over-coating of the exposed faces of the panels and for 250mm on the penetrating services ("Pyrosafe Panel Seal" tested according to SABS 0177 Part II and achieving a rating of 120 minutes"), all installed strictly to the manufactureres specifications</u></p> <p>Around service pipes/cables etc</p> <p><u>ACCESS FLOORING</u></p> <p><u>"Bates" access flooring or similar approved by the Principal Agent</u></p> <p>"Bates" access flooring or similar approved access flooring with 3CR12 suspension foot pieces not exceeding 1000mm deep.</p>	No	20	
9		m2	12	
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 8 - Ceilings, Partitions and access flooring PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

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Bill No 8 - Ceilings, Partitions and access flooring				
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Total Brought Forward from Page No.	106			
Total Brought Forward from Page No.	107			
Total Brought Forward from Page No.	108			
Total Brought Forward from Page No.	109			
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>FLOOR COVERINGS, WALL LINNING, ETC.</u></p> <p><u>(WORK GROUP 130)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u><u>Note</u>Newly installed floors should not be wet within 3 days of installation. contractor will remove and replace at own cost of it occurs that floor are wet before lead time. <u>preparation</u>Clean the floor with a neutral cleaner using hand or 3m Red pad rotary machine , pick up dirty water with a wiper and mop or wet vacuum, rinse with clean water and allow floor to dry. do not use high PH chemicals to remove stains. Use "Forbo cleaner" or " Marmoleum Floor Cleaner" to maintain uniform texture after cleaning</p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 9 - Floor Coverings, Wall Linning, etc. PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Floor coverings and wall linings</p> <p>All floor coverings and linings are to be supplied, laid and sealed complete on a cement screed (screed somewhere) under guarantee by an approved firm of Specialist</p> <p>Sealing of joints</p> <p>All joints between floor coverings and wall linings to be butted and heat welded ensuring the welding agent bonds to more than 70% of the respective sheet thickness</p> <p>All abutments between floor coverings, wall linings, etc. and other members, ie. fittings, skirtings, corner protectors, etc are to properly sealed with an approved sealant of an approved colour</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained</p> <p>Note: Newly installed floors should not be wet within three days of installation. Contractor will remove and replace at own cost if discovered that the floors have been wet before the lead time.</p> <p>Finished Surfaces</p> <p>Contractor to ensure that surfaces are even and suitable to receive a specified finish as no extra cost shall be entertained</p>			
<p><u>FLOOR AND WALL LINING</u></p> <p><u>"FLORWORX" or similar and approved</u></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 9 - Floor Coverings, Wall Lining, etc. PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		<p style="text-align: center;">R</p>	

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	<p><u>2.5mm Thick heavy duty "Marmoleum EN 548" or other equal and approved fully flexible vinyl floor sheeting with and including welded joints</u> <u>Installation should be strictly according to manufactures instructions with correctly welded joins, scribed & tight butt finished prior to grooving & welding, weld should double cut using a cutting slide and finally glazed to give a sustainable and maintainable</u></p>			
1	On floors in patterns	m2	1 556	
2	150mm High coved prefinished marmoleum skirting	m	301	
3	300mm High coved prefinished marmoleum skirting	m	749	
	<u>SPECIAL SCREEDS</u>			
	<u>Cement based self levelling screed</u>			
4	On concrete floors	m2	1 556	
	<u>SEALERS</u>			
	<u>Clean the floor with a natural cleaner using hand or 3M red pad rotary machine, pick up dirty water with a wiper and mop or wet vacuum, rinse with clean water and allow floor to dry. (Do not use high PH chemicals to remove stains. Use "FORBO MONEL" or "MARMOLEUM" Floor cleaner to maintain uniform texture after cleaning.</u>			
5	Two coats floor dressing.	m2	1 556	
	<u>TIMBER FLOORING</u>			
	<u>Laminated timber flooring PC Amount of R250.00/m2</u>			
6	Approved 6mm Thick Tongue and groove on floors	m2	5	
	<u>BUMPER RAILS</u>			
	Carried to Collection			R
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	<u>"Marley Intrad " or other equal and approved wall protection system fixed strictly in accordance to the manufacturer's instruction. Colour by Architect</u>				
7	"TR 200" PVC hospital wall handrails brighten double colour surface vinyl panel as per Manufacturers specification	m	457		
8	"TRE200" external corners	No	200		
9	"TRS 200" stopends	No	12		
Carried to Collection					
Section No. 2 Bill No 9 - Floor Coverings, Wall Linning, etc. PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18					

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**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>IRONMONGERY</u></p> <p><u>(WORK GROUP 132)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Fixing of door locks, handles, flush bolts etc</p> <p>Fixing of all locks, handles, flush bolt, etc. shall be regarded as fixed to timber door leaves, unless specifically otherwise indicated</p> <p>Preparation of door frames</p> <p>Descriptions for flush bolts, door closers, floor spring, etc. shall be deemed to include all necessary preparations to door frames to accomodate same.</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regards will afterwards be entertained</p> <p>All "en-suite" locks shall be ordered to operate in a dedicated master keyed and/or grand master keyed lock system</p>			
	<p><u>SUPPLY AND INSTALLATION OF IRONMONGERY</u></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 10 - Ironmongery PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

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<u>HINGES, BOLTS, ETC</u>				
<u>"Solid"</u>				
1	75mm Brass barrel bolt.	No	20	
2	"AL 8052-150AS" Aluminium anodised flush barrel bolt, with keep fixed to metal	No	25	
3	"AL 8052-150AS" Aluminium anodised flush barrel bolt, with keep let into concrete, including mortice	No	16	
<u>HINGES, BOLTS, ETC</u>				
4	150mm Brass cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	45	
<u>LOCKS</u>				
<u>"Union"</u>				
5	Mortice lock "21314 - 76 Bathroom/WC dead lock with "Ceder pull handle AL5C66 - 73AS on 150 x 150mm indicator back plate and striking plate fixed to metal	No	30	
<u>"EN-SUITE" LOCKS</u>				
<u>"Locks to be suitable for Master Key"</u>				
6	Mortice lock CZ692 - 05 - 222SC "Union Radius Profile" lockset with lever furniture	No	40	
7	Mortice lock CZ692 - 05 - 222SC "Union Radius Profile" lockset with rebate conversion and lever furniture	No	9	
8	Mortice lock "Union" euro profile cylinder dead lock set Ref: L-2109-78SS with rebate conversion	No	17	
9	Master key	No	6	
10	Grand master key	No	2	
<u>HANDLES</u>				
Carried to Collection			R	
Section No. 2 Bill No 10 - Ironmongery PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

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	Curtain tracks				
20	Hospital cubicles curtain track 150mm below soffit including 12 gliders per metre, hangers, brackets, etc. including standard polycotton bedscreen curtain in height to suit space not exceeding 2500mm above finished floor level.	m	150		
21	Extra for stop end plugged.	No	50		
22	Extra for 90 degrees for slow bend.	No	20		
23	Extra for joint or intersection.	No	20		
	BATHROOM FITTINGS				
24	Approved nylon shower curtain, including hangers, fixed to rail	No	4		
	"Franke" or similar and approved by the Principal Agent				
25	Double toilet roll holder code 2120101, size 144 x 138 x 301mm with spindle system for wall mounting. Including cylinder lock with key.	No	14		
26	Soap dispenser code 2190025 size 200 x 85 x 140mm for wall mounting, lock with key, suitable for liquid soapsand lotion, 1 litre soap tank, push button on the front.	No	39		
27	Paper towel dispenser code 21200 size 275 x 112 x 355mm, for wall mounting with standard key, loading capacity 500 - 800 pieces.	No	39		
28	Soap tray code 2120073 for wall mounting size 125 x 90 x 22mm.	No	7		
29	Hand sanitizer dispenser elbow operated code 2120125, fitted with a hinged elbow action lever and a holder to suit a 500ML refillable pump action plastic bottle.	No	26		
	GRAB RAILS				
	Carried to Collection			R	
	Section No. 2 Bill No 10 - Ironmongery PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

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	<u>"Chairman industries" or other equal and approved</u>				
30	Stainless steel side grab rail " Code DL2 " including fixing to wall	No	2		
31	Stainless steel rear grab rail " Code SR2 " including fixing to wall around cistern	No	2		
32	GR300 Stainless steel door rail and fixing to timber door	No	2		
	<u>"Stiebel Eltron Code HTZ 2" High velocity infrared sensor operated or other equal and approved</u>				
33	Warm air hand dryer jetstream airtronic sensor operated hand dryer code 2500002 size 245 x 140 x 167mm wall mounted.	No	10		
	<u>SUNDRIES</u>				
34	AL 8730AS Door stop plugged and screwed to wall or floor	No	107		
35	Set of four "AL 8722AS Muiti hook Aluminium anodised coat hook with rubber buffer fixed to and including approved timber hardwood board	No	10		
36	"CZ80941SC" Satin chrome indicating bolt	No	9		
37	"Code 251" Hat and coat hook with rubber buffer, fixed to timber	No	30		
38	Approved wall mounted television bracket and fixing to walls	No	2		
39	Approved powder coated finish steel lockers "Steiner" full feature line garment dispenser, impact guards; plastic plates around locks, uni-doors	No	12		
	<u>"Masterbilt"</u>				
40	600 x 400mm High bathroom cabinet, with plate glass mirror, fixed to wall, above wash hand basin	No	8		
	Carried to Collection			R	
	Section No. 2 Bill No 10 - Ironmongery PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

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Bill No. 10				
Bill No 10 - Ironmongery				
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Section No. 2				
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>STRUCTURAL STEEL</u></p> <p><u>(WORK GROUP 134)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>			
	<p><u>STRUCTURAL STEEL (Provisional)</u></p> <p><u>Standardised Specifications</u></p> <p>The SANS 1200 1200H Standardised Specification for Civil Engineering Construction for Structural Steelwork is applicable to this Bill</p> <p>The SANS 1200 1200HC Standardised Specification for Civil Engineering Construction for Corrosion Protection of Structural Steelwork is applicable to this Bill</p> <p><u>Project Specification</u></p> <p>If the Standardised Specifications and the Project Specification (bounded in this document) are in conflict, the Project Specification shall apply. If these three specifications conflicts with the Model Preambles for Trades, the provisions of these specifications shall apply.</p>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No 11 - Structural Steel PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

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	<p><u>Descriptions</u></p> <p>Descriptions of all structural steelwork shall be deemed to include for the preparation of shop detail drawings, supply and fabrication, delivery, abnormal loads, erection and approved protective treatment (Corrosion protection).</p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes.</p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete. Where anchor bolts are described as embedded in sides or soffits of concrete it shall be deemed to include holes through formwork.</p> <p><u>STRUCTURAL STEEL MEMBERS</u></p> <p><u>WORKSHOP DRAWINGS</u></p> <p>1 Allow an amount of R 350,000.00 for detailed "Workshop Drawings" as well as "As Built Drawing" complete for the structure designs to the satisfaction of the engineer</p> <p><u>EMERGENCY WARD ROOF STEEL MEMBERS</u></p> <p><u>Welded roof trusses of angle section rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates welded to steel</u></p> <p><u>Hoisting in to position exceeding 4.5m and not exceeding 6.0m</u></p> <p>2 203 x 133 x 25 I-section beams t</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 11 - Structural Steel PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>	Item	10.40	R
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3	125 x 50 x 20 x 2.5 CRLC purlins	t	5.90		
4	60 x 60 x 6 angle diagonal bracing	t	3.00		
5	60 x 60 x 6 section bracing	t	3.00		
6	60 x 60 x 6 angle sag bars	t	2.50		
7	76.2 x 2.5 CRHC stringer	t	1.50		
<u>AMBULANCE DROP OFF ROOF STEEL MEMBERS</u>					
<u>Welded roof trusses of angle section rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates welded to steel</u>					
<u>Hoisting in to position exceeding 3.0m and not exceeding 4.5m</u>					
8	457 x 191 x 82 Column	t	0.50		
9	305 x 165 x 46 Rafters	t	2.70		
10	200 x 75 x 20 x 3.0 purlins	t	1.37		
11	60 x 60 x 6 angle section bracing	t	1.40		
12	60 x 60 x 6 angle sag bars	t	1.00		
13	114.3 x 6.0 CRHC stays	t	0.50		
14	IPE 200	t	0.10		
15	IPE 180	t	0.10		
<u>BOARDROOM ROOF STEEL MEMBERS</u>					
<u>Welded roof trusses of angle section rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates welded to steel</u>					
Carried to Collection				R	
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	<u>Hoisting in to position exceeding 3.0m and not exceeding 4.5m</u>				
16	203 x 133 x 25 I-section beams	t	2.60		
17	125 x 50 x 20 x 2.5 CRLC purlins	t	0.50		
18	60 x 60 x 6 angle diagonal bracing	t	0.25		
19	60 x 60 x 6 section bracing	t	0.15		
20	60 x 60 x 6 angle sag bars	t	0.03		
21	76.2 x 2.5 CRHC stringer	t	0.02		
	<u>HOD OFFICE ROOF STEEL MEMBERS</u>				
	<u>Welded roof trusses of angle section rails, struts, braces, cleats, etc and flat section bearer, gusset and connection plates welded to steel</u>				
	<u>Hoisting in to position exceeding 3.0m and not exceeding 4.5m</u>				
22	100 x 50 x 10 x 2.5 CRLC purlins	t	1.32		
23	60 x 60 x 6 section bracing	t	1.21		
24	60 x 60 x 6 angle bar	t	1.05		
	<u>SUNDRIES STEEL MEMBERS</u>				
	<u>Bolts to columns, beams, etc</u>				
25	Flat section wall plates and welded connection plates	t	0.70		
26	Grade 8.8 precision bolts	t	0.70		
27	M16 x 100mm Expansion bolt	t	0.80		
28	M20 x 300mm Chemset J- bolt cast into concrete	t	0.30		
	Carried to Collection			R	
	Section No. 2 Bill No 11 - Structural Steel PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>METALWORK</u></p> <p><u>(WORK GROUP 136)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of expansion anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Burglar bars to windows</p> <p>All opening sections shall be filled with burglar bars, unless otherwise described</p> <p>Glazing beads to windows</p> <p>Guarantees for glass shall be provided upon completion of the works.</p> <p>Tendered rates must make provision for the above-mentioned as no additional claims in this regards will afterwards be entertained</p>			
	Carried to Collection		R	
	<p>Section No. 2 Bill No 12 - Metalwork PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

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<u>Gates to external doors</u>				
1	"Trellidor" or other equal approved security door size 900 x 2100mm including locking device and bolting to brickwork	No	6	
2	"Trellidor" or other equal approved security door size 1800 x 2100mm including locking device and bolting to brickwork	No	4	
3	Single sliding gate and frame 2200 x 2144mm high overall, formed of 25 x 25 x 2mm hollow section frame and 25 x 25 x 2mm hollow section horizontal middle rail filled in with 12 x 12mm square solid bars at 75 centres and fitted with a pair of heavy duty bullet hinges welded to frame and with locking mechanism for padlock all in and including outer frame of 25 x 25 x 2mm hollow section welded frame including "Valmetex" VEM 320G expanded metal mesh spot welded to frame bolted to brickwork	No	6	
<u>GALVANISED MILD STEEL DOOR FRAMES, INCLUDING BUILDING INTO BRICKWORK</u>				
<u>1,2mm Thick single rebated primed steel door frames supplied with chromium plated strike plates suitable for half brick walls</u>				
4	Frame for door size 900mm x 2100mm high (D13)	No	13	
5	Frame for door size 900mm x 2100mm high (D12)	No	2	
<u>1,2mm Thick single rebated primed steel door frames supplied with chromium plated strike plates suitable for one brick walls</u>				
6	Frame for door size 900mm x 2100mm high (D12)	No	8	
7	Frame for door size 900mm x 2100mm high (D13)	No	2	
8	Frame for door size 900mm x 2100mm high (D14)	No	10	
9	Frame for door size 900mm x 2100mm high (D15)	No	2	
10	Frame for door size 900mm x 2100mm high (D20)	No	9	
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11	Frame for door size 900mm x 2375mm high with fanlight (D5)	No	3		
12	Frame for double door size 1800mm x 2100mm high (D16)	No	2		
13	Frame for door size double door size 1600mm x 2100mm high (D6)	No	2		
14	Frame for double door size 1200mm x 2100mm high (D11)	No	7		
15	Frame for double door size 1800mm x 2100mm high (D21)	No	3		
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	<p><u>ALUMINIUM WINDOWS, ETC., INCLUDING BUILDING INTO BRICKWORK</u></p> <p><u>NOTE:</u> Indicative window schedules are attached at the end of the bills of quantities to assist the tenderer in pricing</p> <p>Rates for the following aluminium windows are to include for supplying and building in of temporary templates</p> <p><u>Design, supply, deliver to site and install the following windows/shopfront in accordance with the manufacturers instructions</u></p> <p><u>Polyester matte black powder coated aluminium framed windows/shopfront glazed as described, including all necessary framing, transomes, mullions, beads, clips, etc., all ironmongery comprising hinges, friction stays, wedgeless handles, external sealing between gaskets, external sealant between framing and adjoining structure with an approved sealant recommended for the purpose intended, all fixings and supports protection from all damage, cleaning down upon completion and everything necessary for a perfectly weather tight installation to the intent, approval and satisfaction of the Architect. NOTE : All windows to be fitted complete with 12 x 12mm Aluminium square bars @ 150mm centres maximum and rates will be deemed to include such</u></p> <p><u>Windows/shopfront glazed with 6mm thick PVB faidbrand laminated safety glass and plugged to brickwork</u></p>			
16	Purpose made window size 600 x 1195mm high W1	No	18	
17	Purpose made window size 1015 x 1195mm high W2	No	4	
18	Purpose made window size 1516 x 1245mm high W3	No	16	
19	Purpose made window size 2430 x 2450mm high W4	No	1	
	Carried to Collection		R	
	<p>Section No. 2 Bill No 12 - Metalwork PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

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20	Purpose made window size 2220 x 2450mm high W5	No	1		
21	Purpose made window type 3160 x 2450mm high W6	No	1		
22	Purpose made window size 2220 x 2450mm high W7	No	1		
23	Purpose made window size 1700 x 2450mm high W9	No	1		
24	Purpose made window size 2885 x 1525mm high W10	No	1		
25	Purpose made window size 5625 x 750mm high W14	No	4		
26	Purpose made window triangular in shape size 5625 base x 3456 x 3456mm slopes W15	No	4		
<u>Internal windows</u>					
27	Purpose made window size 1500 x 1400mm high W8	No	1		
28	Purpose made window size 1500 x 1400mm high W11	No	2		
29	Purpose made window size 800 x 1410mm high W12	No	1		
30	Purpose made window size 2000 x 1410mm high W13	No	2		
31	Purpose made window size 3220 x 750mm high W16	No	4		
32	Purpose made window size 1920 x 750mm high W17	No	4		
33	Purpose made window size 1400 x 1410mm high W18	No	2		
34	Purpose made window size 1500 x 750mm high W19	No	4		
35	Purpose made window size 1500 x 750mm high W20	No	4		
<u>ALUMINIUM LOUVRES, ETC</u>					
<u>Custom made natural anodised aluminium louvres</u>					
36	Louvre type 1130 x 880mm high D23	No	1		
37	Louvre type 725 x 880mm high d24	No	1		
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Carried to Collection					
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38	Louvre type 984 x 875mm high D25	No	6		
39	Louvre type 1240 x 875mm high D26	No	1		
<u>ALUMINIUM DOORS, ETC., INCLUDING BUILDING INTO BRICKWORK</u> <u>Polyester coated aluminium framed windows/shopfront glazed as described, including all necessary framing, transomes, mullions, beads, clips, etc., all ironmongery comprising hinges, friction stays, wedgeless handles, external sealing between gaskets, external sealant between framing and adjoining structure with an approved sealant recommended for the purpose intended, all fixings and supports protection from all damage, cleaning down upon completion and everything necessary for a perfectly weather tight installation to the intent, approval and satisfaction of the Architect.</u> <u>" KAL Slenderline" Grade AA 10 powder coated or similar and approved by the Principal Agent</u>					
40	Purpose made door 3185 x 3165mm overall double doors with fixed vertical two side and top panel, glazed with and including 8mm Africa clear glass.(D1)	No	1		
41	Purpose made door 1185 x 2400mm overall single door with 272mm vertical fixed side panel, glazed with and including 8mm Africa clear glass.(D2)	No	2		
42	Purpose made door 1500 x 2100mm overall double doors, glazed with and including 8mm Africa clear glass.(D03)	No	2		
43	Purpose made door 3000 x 3165mm overall double swing double doors with fixed vertical two side and top panel, glazed with and including 8mm Africa clear glass.(D4)	No	1		
44	Purpose made door 1600 x 2400mm overall double door with 275mm fanlight panel, glazed with and including 8mm Africa clear glass.(D7)	No	3		
				R	
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 12 - Metalwork PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>					

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45	Purpose made sliding door 1800 x 2400mm overall with 275mm fanlight panel, glazed with and including 8mm Africa clear glass.(D8)	No	1		
46	Purpose made door 1800 x 2100mm overall double doors, glazed with and including 8mm Africa clear glass.(D09)	No	1		
47	Purpose made door 1200 x 2100mm overall double door with unequal leafs, glazed with and including 8mm Africa clear glass.(D10)	No	1		
48	Purpose made door 3400 x 3000mm overall sliding doors with fixed vertical side and top panel, glazed with and including 8mm Africa clear glass.(D17)	No	1		
49	Purpose made door 2400 x 2985mm overall double swing double doors with fixed vertical two side and top panel, glazed with and including 8mm Africa clear glass.(D18)	No	1		
50	Purpose made door 1900 x 2100mm overall sliding doors with fixed vertical side and top panel, glazed with and including 8mm Africa clear glass.(D19)	No	1		
51	Purpose made door 2700 x 2125mm overall unequal double door with two equal fixed side panel, glazed with and including 8mm Africa clear glass.(D22)	No	2		
52	Purpose made door 3500 x 3000mm overall unequal double door with two equal side panel and three top panel with one louvred, glazed with and including 8mm Africa clear glass.(D23)	No	1		
53	Purpose made door 1965 x 3000mm overall unequal double door with fixed side panels and two unequal top panel one louvred, glazed with and including 8mm Africa clear glass.(D24)	No	1		
54	Purpose made door 4150 x 3000mm overall unequal double door with three vertical equal side panel and four top panel with two louvred, glazed with and including 8mm Africa clear glass.(D25)	No	3		
Carried to Collection				R	
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Section No. 2				
Bill No. 12				
Bill No 12 - Metalwork				
<u>COLLECTION</u>				
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Total Brought Forward from Page No.	130			
Total Brought Forward from Page No.	131			
Total Brought Forward from Page No.	132			
Total Brought Forward from Page No.	133			
Total Brought Forward from Page No.	134			
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>PLASTERING</u></p> <p><u>(WORK GROUP 142)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Textured finishes</p> <p>All textured finishes are to be applied to the satisfaction of the Principal Agent and executed by an approved firm of Specialists, all strictly in accordance with the materials supplied and methods employed by the Manufacturer</p> <p>Preparatory work for textured finishes</p> <p>Textured finishes to be applied to surfaces as described. Rates tendered are to include for all necessary priming, preparatory work, etc.</p> <p>All surfaces are to be inspected and approved by the Principal Agent prior to any work is commenced with</p>			
	<p><u>SCREEDS</u></p> <p><u>3:1 Cement plaster screeds steel trowelled on concrete</u></p>			
1	25mm Thick on concrete floors to receive timber floors m2	5		
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 13 - Plastering PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

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2	25mm Thick on concrete floors to receive vinyl sheeting	m2	1 556		
3	Average 50mm thick on concrete roof slabs to falls, to outlets to receive waterproofing	m2	429		
4	75 x 75mm Triangular fillet in 1:3 mortar	m	215		
	<u>GRANOLITHIC</u>				
	<u>Tinted 30-35 Mpa granolithic floor finish</u>				
5	30mm Thick on concrete floors to falls	m2	21		
	<u>INTERNAL PLASTER</u>				
	<u>One coat (1:5) cement plaster on brickwork</u>				
6	On walls	m2	4 410		
7	On narrow widths	m2	10		
	<u>On concrete</u>				
8	On ceilings	m2	1 360		
	<u>DIVIDING STRIPS, COVER STRIPS ETC</u>				
	<u>Strips</u>				
9	6mm Aluminium closed quadrant trim with an anodised matt silver finish and corners to suit	m	10		
10	3 x 25mm Brass dividing strip with top flush with floor finish	m	68		
	<u>"Joint Master " or similar approved</u>				
11	Expansion joint seal series 800 Code 806- floor-floor cover strip	m	120		
				R	
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 13 - Plastering PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>					

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<p>Section No. 2</p> <p>Bill No. 13</p> <p>Bill No 13 - Plastering</p> <p><u>COLLECTION</u></p>				
<p>Total Brought Forward from Page No.</p> <p>Total Brought Forward from Page No.</p>	<p>Page No</p> <p>138</p> <p>139</p>		<p>Amount</p>	
<p style="text-align: right;">Carried Forward to Summary of Section No. 2</p> <p>Section No. 2</p> <p>Bill No 13 - Plastering</p> <p>PROVISIONAL BILLS OF QUANTITIES</p> <p>BID NO: NWDOH/PS/08/18</p>		<p style="text-align: right;">R</p>		

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Item No	Quantity	Rate	Amount
<u>BILL NO. 14</u> <u>TILING</u> <u>(WORK GROUP 144)</u> <u>PREAMBLES</u> For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Prices Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete			
<u>WALL TILING</u> <u>5mm "Versa" or similar approved ceramic wall tiles fixed with adhesive to plaster (plaster elsewhere measured) and flush pointed with tinted jointing compound in diagonal or rectangular dado tile pattern</u> <div> <div>1</div> <div>On walls in patterns</div> <div>m2</div> <div>452</div> </div> <u>300 x 600 x 5mm "Versa" or similar approved ceramic wall tiles fixed with adhesive to plaster (plaster elsewhere measured) and flush pointed with tinted jointing compound in diagonal or rectangular dado tile pattern</u> <div> <div>2</div> <div>On walls</div> <div>m2</div> <div>10</div> </div>			
Carried to Collection			R
Section No. 2 Bill No 14 - Tiling PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18			

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	<u>5mm "Versa" or similar approved ceramic wall tiles splashback wall fixed with adhesive to plaster (plaster elsewhere measured) and flush pointed with tinted jointing compound in diagonal or rectangular dado tile pattern</u>					
	3	On Splashbacks in patterns	m2	32		
	<u>PORCELAIN FLOOR TILES</u>					
	<u>500mm x 500mm x 8.5mm Thick polished porcelain floor tile with 2mm joints complete with rectangular borders and diagonal infill panels, install with tile adhesive as recommended by tile manufacturer on well-prepared screed to suit required level. Finish all joints with CORPROX waterproof grout. All strictly to manufacturer's specifications. Colour and type and detail pattern design to Architect's approval.</u>					
	4	On floors	m2	145		
	5	Cut tile skirting 150 mm high with and including approved 10mm "Genesis" or similar approved aluminium trims	m	46		
	6	Border tile of cut 150mm high with and including 2 x 10mm "Genesis" or approved aluminium strips	m	28		
	7	10mm "Genesis" or approved aluminium strips to corners of windows and walls	m	46		
	<u>Non-Slip porcelain mosaic shower floor tile with 2mm joints complete with rectangular borders and diagonal infill panels, install with tile adhesive as recommended by tile manufacturer on well-prepared screed to suit required level. Finish all joints with CORPROX waterproof grout. All strictly to manufacturer's specifications. Colour and type and detail pattern design to Architect's approval.</u>					
	8	On floors	m2	29		
Carried to Collection					R	
Section No. 2 Bill No 14 - Tiling PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18						

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<p>Section No. 2</p> <p>Bill No. 14</p> <p>Bill No 14 - Tiling</p> <p><u>COLLECTION</u></p>				
<p>Total Brought Forward from Page No.</p>	<p>Page No</p> <p>141</p>		<p>Amount</p>	
<p>Total Brought Forward from Page No.</p>	<p>142</p>			
<p>Carried Forward to Summary of Section No. 2</p>		<p>R</p>		
<p>Section No. 2</p> <p>Bill No 14 - Tiling</p> <p>PROVISIONAL BILLS OF QUANTITIES</p> <p>BID NO: NWDOH/PS/08/18</p>				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 15</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>(WORK GROUP 148)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>NOTE</u></p> <p>All prices/rates to be net, excluding Value Added Tax</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Excavations</p> <p>Prices for excavations must include for necessary staging for risk of collapse of excavation side.</p> <p>Compacting</p> <p>Filling for all types of prices described as "under solid floors, etc" shall be done with approved backfilling and compacted to 93% Mod. AASHTO density, unless otherwise described</p> <p>Testing</p> <p>Descriptions for the testing of plumbing and drainage installations shall be deemed to cater for all testing apparatus, labour, etc. and shall be done strictly as directed by and in accordance to the Principal Agent's instructions, including for retesting after taking out and making good all defective work to his entire satisfaction</p>			
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 15 - Plumbing and drainage PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
DR KENNETH KAUNDA
NORTH WEST**

<p><u>Vitrified clay pipes:</u></p> <p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipe fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half hard pipes of the class stated. Class 0 (thin walled hard drawn pipes) shall not be bent. Class 1 (thin half hard), Class 2 (half hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti siphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or ground.</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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<p><u>Reducing fittings</u></p> <p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers , he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers will be entertained.</p> <p><u>Excavations</u></p> <p>No claim for extra rock excavation will be entertained unless the Contractor has timeously notified the Quantity Surveyor , thereof prior to backfilling, in writing</p> <p>"Soft rock" and "Hard rock" shall be as defined in "Earthworks"</p> <p><u>Laying, Backfilling, Bedding, etc. of Pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with the manufacturer's instructions</p> <p>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 1200L : Medium Pressure Pipes LD : Sewers LE : Stormwater Drainage</p> <p>Pipes trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe Trenches)</p> <p>Pipes shall be bedded in accordance with Clause 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB : Bedding (Pipes)</p> <p>Unless otherwise described bedding of rigid pipes shall be Class B bedding</p>	<p>Carried to Collection</p>	<p>R</p>	<p>Section No. 2 Bill No 15 - Plumbing and drainage PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>
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**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
DR KENNETH KAUNDA
NORTH WEST**

<p><u>Flush pans</u></p> <p>Flush pans shall have straight or side outlets and "P" or "S" traps as necessary</p> <p><u>Waste unions</u></p> <p>Description of waste unions shall be deemed to include rubber or vulcanite plugs and chains</p> <p><u>DRAINAGE</u></p> <p><u>NOTE:</u> All items in this section shall be deemed to fall into Work Group No 146 for Haylett formula purposes</p> <p><u>SOIL DRAINAGE</u></p> <p>Unless otherwise stated herein, all items in this section shall be deemed to fall into Work Group No 146 for Haylett formula purposes.</p>				
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<u>RAINWATER DISPOSAL</u>				
<u>Fulbore cast iron outlets</u>				
1	150mm Diameter 90 degrees	No	12	
<u>Rainwater pipes in Columns</u>				
2	110mm Diameter uPVC pipe	m	44	
3	110mm Diameter Pluvia pipes	m	28	
4	Extra over 150mm rainwater pipe for bend	No	12	
5	Extra over 150mm rainwater pipe for splay cut end	No	12	
<u>SANITARY PLUMBING</u>				
<u>uPVC pipes</u>				
6	50mm Pipes fixed to walls	m	66	
7	50mm Pipes laid under slabs and including trenches not exceeding 1m deep	m	36	
8	110mm Pipes fixed to walls or soffits	m	122	
9	110mm Pipes laid under surface beds and including trenches not exceeding 1m deep	m	35	
10	110mm Pipe encased in concrete 20MPa/20 under surface beds and including excavation exceeding 1m and not exceeding 2m deep	m	45	
<u>Extra over upvc pipes for fittings</u>				
11	50mm Bend	No	52	
12	50mm Access bend	No	52	
13	50mm Access junction	No	52	
14	50mm Junction	No	52	
Carried to Collection			R	
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15	110 x 50mm Reducer	No	12		
16	110mm Plain bend	No	12		
17	110mm Access bend	No	12		
18	110mm Access junction	No	14		
19	110mm Pan connector	No	12		
20	110mm Bent pan connector	No	12		
21	110mm Two way vent valve	No	12		
<u>SANITARY FITTINGS</u>					
<u>"Franke" Stainless steel or similar and approved by the Principal Agent</u>					
22	Sink 1500 x 550 x 1064mm code 2630033	No	1		
23	Single bowl drop in sink size 800 x 460mm	No	2		
24	Combination bedpan and was-up sink size 1830 x 685 x 1050mm code 2630001 unit with 150mm high splash back to the rear.	No	1		
25	Bedpan sluice sink, size 1130 x 685 x 1050mm code 2630012 unit with 150mm high splash back to the rear.	No	1		
26	Oval a wall mounted wash hand basin code 2520029 size 429 x 340 x 185mm. Accessories include 32mm basin waste unslotted, 62mm flange, 80mm tailpiece "Cobra" code 308 or similar and approved by the Principal Agent.	No	2		
27	Drip sink/cleaner sink code 2630026 600 x 500 x 258mm. Fitted with stainless steel hinge bucket grid and a pair of stainless steel eagle brackets. Accessories include 32mm basin waste unslotted, 62mm flange, 80mm tailpiece "Cobra" code 308 or similar and approved by the Principal Agent.	No	1		
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28	Bedpan and bottle rack code 2630017, size 960 x 350 x 505mm. Including unit complete with stainless steel drip tray.	No	1		
29	Hospital surgeon scrub-up unit code 2630041, size 1500 x 530mm with 150mm high integral splash back to back with reduced internal corners and provision for 40mm waste outlet(s).	No	1		
30	Slop hopper 540 x 540mm code 2630035-004 with a 100mm high integral splash back to the rear and both sides. Complete with a 107mm waste outlet(s).	No	1		
31	Stainless steel double bowl sink with drainer 1500 x 535mm	No	2		
32	Stainless steel plaster of paris sink	No	1		
33	1200 x 625 x 915mm "W-series" wall bench with 150mm intergral splashback	No	1		
34	1500 x 625 x 915mm "W-series" wall bench with 150mm intergral splashback	No	1		
35	1500 x 550mm "Franke" 1.2mm Grade 304 stainless steel model PPGL plaster of Paris Preparation sink with 150mm high intergral splash back to back and sides with preparation bowls	No	1		
36	Model BR6 code 04H02144 bedpan and bottle rack size 915 x 560 x 260mm fixed to wall.	No	1		
37	Model EC6 combination bedpan and wash-up sink size 1830 x 685mm with 150mm splashback, complete with bedpan spray nozzle, water spray nozzle, elbow action valves, mixer with over arm swivel outlet, single taphole mixer with extractable hand spray, 11 litre stainless steel high level cistern and flushpipe, complete with 40 x 40mm square stainless steel gallow brackets and front legs with adjustable foot pieces with floor fixing flanges. Unit to be supplied complete with taps G22018	No	1		
Carried to Collection				R	
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38	Hospital disposal unit code G22018(RT/LT) 304 stainless steel with satin polish finish, fitted with slop hopper at one end and a washup bowl, complete with a litre stainless steel cistern with metal lever flush handle. Unit to have two tapholes at 200mm centre unit to be supplied complete with flush master and sink mixer.	No	1		
39	Stainless steel cupboard 1000mm long x 600mm wide with double lockable doors and 3 shelves	No	2		
40	900 x 450mm Approved stainless steel perforated shower seat complete with all accessories and fixed to walls	No	2		
41	3 Tier 600 x 600 x 450mm deep stainless steel shelving complete with stainless steel wall band and brackets and fixed to walls	No	1		
	<u>"Stunning" or similar and approved by the Principal Agent</u>				
42	450 x 300mm Approved shower seat with white stainless steel frame and timber slats seat, plugged and screwed to wall with stainless steel coach screws.	No	8		
	<u>"Vaal Potteries" or other equal and approved by the Principal Agent</u>				
43	"Vaal" sanitary ware vitreous china universal half code 715222 pedestal	No	4		
44	Vaal "Hygia" Code 703611 sanitary ware fine fire clay 585 x 435mm Hospital basin.	No	23		
45	Vaal "Sola" Code 703700 sanitary ware vitreous china 510 x 400mm semi-rectangular medical basin, with no tap holes, overflow or chain stay hole. Accessories 32mm standing overflow, chrome plate code 8630Z0.	No	14		
46	"Vaal" vitreous china Protea Paraplegic suite Code 750246, 90 degrees outlet pan Code 750200 and matching 9 litre cistern Code 710631 complete with lid, fittings and purpose made CP side flush lever (left or right) or a back inlet exposed flush valves 750151 with solid hard plastic toilet seat and lid as Al de Lux (SABS CKS 301)	No	2		
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47	"Vaal" Flatback wall hung urinal code 705326 sanitary ware vitreous china urinal overall size 415 x 315 x 275mm, including 38mm CP domical grading code 8787Z0, CP top inlet spreader code 8543Z0 and two hangar brackets code 8127Z0. Accessories include exposed top inlet flush-valve "Cobra" FJ 6000 or similar and approved by the Principal Agent flush-master.	No	4		
48	Drip sink size 540 x 460 x 180mm with 100mm integral splash back and complete with stainless steel grid and steel brackets	No	2		
49	900 x 900 x 150mm High Vitrex Eurosan "Letaba" enamel steel shower tray	No	2		
50	Steel enamel bath	No	1		
	<u>"Hygia" or other similar and approved by the Principal Agent</u>				
51	Semi-close couple suite with 90 degree outlet open rim washdown pan and matching 9 litre cistern complete with lid, "Tuscany" wooden seat and B2 thermoset seat.	No	1		
	<u>"Daisy" or other similar and approved by the Principal Agent</u>				
52	Semi-close couple suite with 90 degree outlet open rim washdown pan and matching 9 litre cistern complete with lid, "Tuscany" wooden seat and B2 thermoset seat.	No	12		
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	<u>TAPS, VALVES, ETC</u>				
	<u>"Brass"</u>				
61	15mm Stopcock	No	6		
	<u>"Cobra Watertech" or other equal and approved by the Principal Agent</u>				
62	15mm "Cobra" sink mixer TD 266/041 chromium plated	No	6		
63	15mm "Cobra" basin mixer chromium plated	No	12		
64	15mm stella 3311ST-15 pillar tap, with tapered flow straightened cobra watertech 32mm machine chrome plated slotted basin waste union (303), Cobra 309-32 "anti-theft" plug COBRA 345/50 bottle trap, 50mm pvc outlet., angle regulating valves 232/350	No	12		
65	15 mm 515/055-21 Elbow action medical mixer with swan neck swivel spout outlet "code No.044)	No	12		
66	15mm 433 "Carina" chromium plated shower set	No	2		
67	15mm No.068BJ Concorde chromium plated shower rose	No	2		
68	15mm No.232/350 "Cobra" chromium plated angle regulating valve	No	4		
69	15 mm Elbow action pillar tap	No	4		
	<u>Valves, control valves etc., fixed to copper pipes</u>				
	<u>"Cobra Watertech" or other equal and approved by the Principal Agent</u>				
70	22mm Cast brass fullway gate valve	No	6		
71	28mm Cast brass fullway gate valve	No	6		
72	35mm Cast brass fullway gate valve	No	8		
73	42mm Cast brass fullway gate valve	No	4		
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	<u>WATER SUPPLY</u>				
	<u>Class O thin wall hard drawn copper pipes and fittings with capillary soldered type connections</u>				
76	15mm Pipes	m	244		
77	22mm Pipes	m	120		
78	28mm Pipes	m	53		
79	35mm Pipes	m	64		
80	42mm Pipes	m	10		
81	54mm Pipes	m	10		
	<u>Extra over class O copper fittings for soldered capillary fittings</u>				
82	15mm Fitting	No	36		
83	22mm Fitting	No	18		
84	15mm Service pipe 350mm girth	No	6		
	<u>Extra over 28mm diameter copper piping for soldered capillary fittings</u>				
85	Bend or elbow	No	5		
86	Tee	No	12		
87	Reducing tee	No	12		
88	Bush	No	5		
89	Reducing bush	No	6		
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	<u>Extra over 35mm diameter copper piping for soldered capillary fittings</u>				
90	Bend or elbow	No	8		
91	Tee	No	12		
92	Reducing tee	No	8		
93	Bush	No	5		
94	Reducing bush	No	5		
	<u>Extra over 42mm diameter copper piping for soldered capillary fittings</u>				
95	Bend or elbow	No	5		
96	Tee	No	5		
97	Reducing tee	No	3		
98	Bush	No	2		
99	Reducing bush	No	2		
	<u>Extra over 54mm diameter copper piping for soldered capillary fittings</u>				
100	Bend or elbow	No	1		
101	Tee	No	1		
102	Reducing tee	No	1		
103	Bush	No	1		
104	Reducing bush	No	1		
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	<u>FIRE APPLIANCES ETC.</u>				
105	Fire hose reel complete with 30m x 20m diameter hose, including reel, valve, nozzle and wall bracket bolted on	No	4		
106	9Kg Dry chemical fire extinguisher	No	12		
	<u>WATER SUPPLY TO FIRE APPLIANCES</u>				
	<u>Galvanised steel pipes</u>				
107	25mm Pipes	m	250		
	<u>Extra over galvanised steel pipes for steel fittings</u>				
108	25mm Fittings	No	12		
	<u>VALVES TO FIRE APPLIANCES</u>				
	<u>"Cobra watertech" or other equal and approved by the Principal Agent</u>				
109	25mm 1001/125-25 PRESTEX brass fullway gate valve	No	2		
	<u>Testing</u>				
110	Allow for testing the whole of the water supplies and fire service installation to the approval of the Representative/ Agent		Item		
	<u>WATER APPLIANCES</u>				
	<u>"Franke" or other equal and approved by the Principal Agent</u>				
111	Hydroboil 5 litre stainless steel code 2610010 instant boiling water 25 - 30 ups size 460 x 150mm.	No	2		
	Carried to Collection				
	Section No. 2				
	Bill No 15 - Plumbing and drainage				
	PROVISIONAL BILLS OF QUANTITIES				
	BID NO: NWDOH/PS/08/18				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Section No. 2				
Bill No. 15				
Bill No 15 - Plumbing and drainage				
<u>COLLECTION</u>				
	Page No		Amount	
Total Brought Forward from Page No.	144			
Total Brought Forward from Page No.	145			
Total Brought Forward from Page No.	146			
Total Brought Forward from Page No.	147			
Total Brought Forward from Page No.	148			
Total Brought Forward from Page No.	149			
Total Brought Forward from Page No.	150			
Total Brought Forward from Page No.	151			
Total Brought Forward from Page No.	152			
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Total Brought Forward from Page No.	154			
Total Brought Forward from Page No.	155			
Total Brought Forward from Page No.	156			
Total Brought Forward from Page No.	157			
Total Brought Forward from Page No.	158			

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No 15 - Plumbing and drainage

PROVISIONAL BILLS OF QUANTITIES

BID NO: NWDOH/PS/08/18

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 16</u> <u>GLAZING</u> <u>(WORK GROUP 150)</u> <u>PREAMBLES</u> For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u> <u>NOTE</u> All prices/rates to be net, excluding Value Added Tax <u>SUPPLEMENTARY PREAMBLES</u> Prices Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of bare brickwork and concrete			
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u> <u>Mirror manufactured from 18/10 stainless steel with a reflective polished surface, drilled for screw to wall and reinforced with Novopan plates screwed to wall</u>			
1	Size 450 x 450 x 6mm High quality mirror with develled edges. Plug and screw to wall with chrome mirror screw, complete with screw caps.	No	39	
2	Size 450 x 1600 x 6mm High quality mirror with develled edges. Plug and screw to wall with chrome mirror screw, complete with screw caps.	No	4	
	<p style="text-align: right;">Carried Forward to Summary of Section No. 2</p> <p>Section No. 2 Bill No 16 - Glazing PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R	

**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Item No		Quantity	Rate	Amount	
	<p><u>BILL NO. 17</u></p> <p><u>PAINTWORK</u></p> <p><u>(WORK GROUP 152)</u></p> <p><u>PREAMBLES</u>For preambles refer to <u>"Department of Public Works: Specification of Materials and Method to be used - PW371"</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Paint</p> <p>All paint, complete with undercoat, primer, etc., to be used strictly in accordance with the manufacturer's specification. Only paint which bears the described trade names will be permitted on site. No substitution will be allowed</p> <p>Previously painted plastered surfaces</p> <p>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</p> <p>Access</p> <p>Rates for painting steelwork, shall include access, for unlimited height</p>				
	<p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No 17 - Paintwork PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>		R		

<u>PAINTWORK, ETC</u>				
<u>PAINT ON FLOATED PLASTER</u>				
<u>Prepare, stop and apply one coat "Plascon" or similar and approved alkali resistant primer and two coats super acrylic emulsion paint for interior use</u>				
1	On internal walls	m2	4 410	
2	On concrete plastered soffits	m2	735	
<u>ON FIBRE CEMENT</u>				
<u>Prepare, stop and apply one coat "Plascon" or similar and approved alkali resistant primer and two coats acrylic emulsion paint for interior use</u>				
3	On fibre cement ceilings	m2	1 360	
4	Skimmed gypsum plaster board ceilings	m2	95	
<u>ON PLASTERBOARD</u>				
<u>Prepare, stop and apply one coat "Plascon" or similar and approved alkali resistant primer and two coats acrylic emulsion paint for interior use</u>				
5	On plaster board ceilings	m2	19	
<u>ON METAL</u>				
<u>Spot primer defects in pre-primed surfaces with zinc chromate primer, one universal undercoat and two coats "Plascon" or equal and approved enamel paint</u>				
6	On pressed steel door frames	m2	4	
7	On steel gates	m2	8	
8	On structural steel members	m2	25	
Carried to Collection				
Section No. 2 Bill No 17 - Paintwork PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18			R	

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
DR KENNETH KAUNDA
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UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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NORTH WEST

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UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Bill No	SECTION SUMMARY - Section 2 - Builders' Work	Page No	Amount
1	Bill No 1 - Demolitions	69	
2	Bill No 2 - Earthworks	76	
3	Bill No 3 - Concrete, formwork and reinforcement	85	
4	Bill No 4 - Masonry	92	
5	Bill No 5 - Waterproofing	96	
6	Bill No 6 - Roof Covering	100	
7	Bill No 7 - Carpentry and Joinery	105	
8	Bill No 8 - Ceilings, Partitions and access flooring	110	
9	Bill No 9 - Floor Coverings, Wall Lining, etc.	115	
10	Bill No 10 - Ironmongery	123	
11	Bill No 11 - Structural Steel	128	
12	Bill No 12 - Metalwork	137	
13	Bill No 13 - Plastering	140	
14	Bill No 14 - Tiling	143	
15	Bill No 15 - Plumbing and drainage	159	
16	Bill No 16 - Glazing	160	
17	Bill No 17 - Paintwork	164	
Carried to Final Summary			
Section No. 2			
PROVISIONAL BILLS OF QUANTITIES			
BID NO: NWDOH/PS/08/18			

**UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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Item No		Quantity	Rate	Amount
	<p><u>SECTION 5</u></p> <p><u>BILL NO. 1</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>PREAMBLES</u>For preambles see "<u>Standard Model Specifications for Building Works PW371/Oct 93</u>"</p>			
	<p>1. All provisional sums cover the supply of material and equipment and of installation where applicable by firms of specialists. Provisional sums are not and do not include for builder's discount, but the tenderer may allow under the item for "Profit" . The tenderer is referred to item B7.1 and B7.2 in Section 1 ("Preliminaries") for the definitions and adjustment of "Attendance".</p> <p>2. Under no circumstances may any Prime Cost or Provisional Sum, etc be extended at an amount lower than the amount given in this Bill</p> <p>Provisional Sums may be omitted or reduced at the Employer'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.</p> <p>3. The following provisional sums for work to be executed by selected sub-contractors.</p>			
	<p><u>SELECTED SUB-CONTRACTORS</u></p>			
	<p style="text-align: right;">Carried to Collection</p>		R	
	<p>Section No. 3 Bill No 1 - Provisional Sums PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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<u>OCCUPATIONAL HEALTH AND SAFETY</u>				
1	Provide a sum of R 2 700 000.00 (Two Million Seven Hundred Thousand Rands) Occupational, Health and Safety as per current legislation	Item		2 700 000.00
2	Profit	Item		
3	Attendance	Item		
<u>JOINERY FITTINGS</u>				
4	Provide an amount of R 350 000 (Three Hundred and Fifty Thousand Rands) for fittings, counters, cupboards and all joinery fittings in building to the required standards all as directed by the principal agent	Item		350 000.00
5	Profit	Item		
6	Attendance	Item		
<u>BLINDS AND CURTAINS</u>				
7	Provide a sum of R 200 000.00 (Two Hundred Thousand Rands) for supply and installation of curtain trucks, rails, curtains and blinds	Item		200 000.00
8	Profit	Item		
9	Attendance	Item		
<u>SIGNAGE</u>				
10	Provide a sum of R 150 000.00 (One Hundred and Fifty Thousand Rand) for all signage including permanent hospital directional signage	Item		50 000.00
11	Profit	Item		
12	Attendance	Item		
Carried to Collection			R	
Section No. 3 Bill No 1 - Provisional Sums PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

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<u>RECORDS FILING CABINETS</u>				
13	Provide an amount of R 100 000.00 (One Hundred Thousand Rands) for bulk shelving and cabinets to be used at discretion of the Representative/Engineer and deducted in whole or in part if not required	Item		100 000.00
14	Profit	Item		
15	Attendance	Item		
<u>EXTERNAL WORKS</u>				
16	Provide an amount of R 300 000.00 (Three Hundred Thousand Rands) General External Works	Item		300 000.00
17	Profit	Item		
18	Attendance	Item		
<u>WALKWAYS</u>				
19	Provide an amount of R 300 000.00 (Three Hundred Thousand Rands) for Walkways	Item		300 000.00
20	Profit	Item		
21	Attendance	Item		
<u>WATER CONNECTION</u>				
22	Provide an amount of R 50 000.00 (Fifty Thousand Rands) for Water Connection	Item		50 000.00
23	Profit	Item		
24	Attendance	Item		
Carried to Collection			R	
Section No. 3 Bill No 1 - Provisional Sums PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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<u>SEWER CONNECTION</u>					
25	Provide an amount of R 50 000.00 (Fifty Thousand Rands) for Sewer Connection	Item		50 000.00	
26	Profit	Item			
27	Attendance	Item			
<u>LANDSCAPING</u>					
28	Provide an amount of R 200 000.00 (Two Hundred Thousand Rand) for Landscaping	Item		200 000.00	
29	Profit	Item			
30	Attendance	Item			
<u>COMMUNITY LIAISON OFFICER (CLO)</u>					
31	Provide an amount of R 117,000.00 (One Hundred and Seventeen Thousand Rands Only) for the Community Liaison Officer (CLO) wages.	Item		117 000.00	
32	Profit	Item			
33	Attendance	Item			
<u>ALLOWANCE FOR TRAINING</u>					
34	Allow an amount of R 100 000.00 (One hundred thousand Rand) for training	Item		100 000.00	
35	Profit	Item			
36	Attendance	Item			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 3 Bill No 1 - Provisional Sums PROVISIONAL BILLS OF QUANTITIES BID NO: NWDOH/PS/08/18</p>			R		

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
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UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
1	Preliminaries & Generals				
	General Items				
1.1	Compliance to Occupational Health and Safety (OHS) Act requirements	Item	1		
1.2	Security	Item	1		
1.3	Site Establishment	Item	1		
1.4	Setting out of works	Item	1		
1.5	Stripping and isolation of the entire existing electrical services	Item	1		
	Commissioning and Testing				
1.6	Inspection, commissioning and applicable testing of the entire installation including certificates of completion	Item	1		
	Manuals				
1.7	Provision of operational and maintenance manuals in hard copies and PDF's on CD/DVD	Sets	3		
	Drawings				
1.8	As-built drawings of entire installation (DWG & PDF drawings for electronic submission on CD/DVD in addition to hard copies)	Sets	3		
1.9	Other: <i>(Please specify)</i>				
	a.				
	b.				
	c.				
	d.				
	e.				
	SUB-TOTAL PAGE 1 : CARRIED FORWARD TO SUMMARY PAGE				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
2	<u>Low Voltage Cables:</u>				
	Supply and install 600/1000V PVC/PVC/SWA/PVC copper cable laid in trenches or fixed to cable trays (cable trays measured elsewhere)				
2.1	95mm ² 4-core cable	m	400		
2.2	70mm ² 4-core cable	m	300		
2.3	35mm ² 4-core cable	m	250		
2.4	16mm ² 4-core cable	m	150		
2.5	6mm ² 4-core cable	m	100		
2.6	4mm ² 3-core cable	m	80		
	<u>Cable Terminations:</u>				
	Supply and install cable terminations for 600/1000V PVC/PVC/SWA/PVC copper cables				
2.7	95mm ² 4-core cable	No.	4		
2.8	70mm ² 4-core cable	No.	6		
2.9	35mm ² 4-core cable	No.	6		
2.10	16mm ² 4-core cable	No.	6		
2.11	6mm ² 4-core cable	No.	6		
3	<u>Earthing:</u>				
	Bare copper earth conductor installed and strapped to cable (cable measured elsewhere) and building earthing				
3.1	70mm ² BCEW	m	400		
3.2	50mm ² BCEW	m	300		
3.3	25mm ² BCEW	m	250		
3.4	10mm ² BCEW	m	150		
	<u>Earth Conductor Termination:</u>				
	Termination for bare insulated copper conductors including lugs and connections				
3.5	70mm ² BCEW	No.	2		
3.6	50mm ² BCEW	No.	4		
3.7	25mm ² BCEW	No.	4		
3.8	10mm ² BCEW	No.	6		
4	<u>Lightning Protection:</u>				
4.1	Design, supply, installation, testing and commissioning of an Earthing & Lightning Protection of the building structure	Item	1		
	SUB-TOTAL PAGE 2 : CARRIED FORWARD TO SUMMARY PAGE				
5	<u>Sleeves:</u>				
	Sleeve piping including short lengths and jointing, laid in trench (trench filling measured elsewhere)				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
5.1	50mm diameter sleeve	m	150		
5.2	110mm diameter sleeve	m	150		
6	<u>Manholes:</u>				
	Supply and install manholes and covers				
6.1	600mm x 600mm x 800mm (deep) manholes	No.	5		
6.2	Medium duty covers for 600mm x 600mm manholes	No.	5		
7	<u>Excavation:</u>				
	Excavation of cable and sleeve pipe trenches including bedding, covering, backfilling and compaction				
7.1	Pickable Soil	m ³	5		
7.2	Soft Rock	m ³	5		
7.3	Hard Rock	m ³	4		
7.4	Extra-over for cable sleeve pipe trenches under roads, buildings, parking areas and paved areas (refer to specifications for compaction and tests	m ³	6		
7.5	Cable warning tape placed 150mm above cables in excavations	m	300		
8	<u>Distribution Boards:</u>				
	Supply and install distribution boards complete with sheet metal tray, frames, sub-frames, bus-bars, provision for 30% future circuit breakers and legend card as per line diagram				
8.1	DB - MAIN (refer to drawing: G25-POTCH-E-300)	Item	1		
8.2	DB - HVAC (refer to drawing: G25-POTCH-E-300)	Item	1		
	Alteration of Main Panel in Substation Building for the feed to the proposed Casualty and Emergency Unit				
8.3	Temporary isolation works of Main Panel in Substation Building	Item	1		
8.4	Supply, install and energise a new 200A 3P circuit breaker	No.	1		
9	<u>Conduits and Accessories:</u>				
	Conduits chased into walls or fixed in ceiling voids				
9.1	20mm diameter PVC conduit	m	5,500		
9.2	25mm diameter PVC conduit	m	3,250		
9.3	20mm diameter galvanised conduit	m	250		
9.4	25mm diameter galvanised conduit	m	250		
	SUB-TOTAL PAGE 3 : CARRIED FORWARD TO SUMMARY PAGE				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
	Conduit boxes and fittings chased into walls or fixed in ceiling voids				
9.5	100mm x 50mm x 50mm deep galvanised box	No.	50		
9.6	100mm x 100mm x 50mm deep galvanised box	No.	250		
10	<u>Conductors:</u>				
	Bare stranded copper earth conductor drawn into wireways				
10.1	2,5mm ²	m	6,850		
10.2	4mm ²	m	2,250		
	PVC Insulated stranded copper conductor drawn into wireways				
10.3	2,5mm ²	m	5,650		
10.4	4mm ²	m	4,350		
10.5	6mm ²	m	3,250		
11	<u>Cable Trays:</u>				
	Wired mesh cable tray GS50 complete with accessories, short lengths, fixed to purlines or in ceiling voids				
11.1	200mm wide cable tray with mounting accessories	m	200		
11.2	300mm wide cable tray with mounting accessories	m	550		
11.3	600mm wide cable tray with mounting accessories	m	400		
12	<u>Wiring Channel:</u>				
	Galvanized steel channel complete with accessories, cover plates suspended from steel trusses or concrete slab including hangers or steel cables				
12.1	P9000 channel complete with mounting accessories	m	150		
12.2	OL8000 channel complete with mounting accessories	m	550		
13	<u>Power-Skirting:</u>				
13.1	Supply and install 2-compartment power-skirting complete with accessories and covers	m	200		
13.2	16A 3-pin shaved earth socket outlet on power-skirting	No.	50		
13.3	16A 3-pin normal socket outlet on power-skirting	No.	50		
14	<u>Cavity Floor Boxes:</u>				
14.1	Supply and install cavity floor box each complete with 4x 16A normal SSO, 4x 16A shaved earth SSO, 4x RJ-45 data outlets	No.	5		
	SUB-TOTAL PAGE 4 : CARRIED FORWARD TO SUMMARY PAGE				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
15	<u>Bedhead Trunking Service System:</u>				
	Bedhead trunking system fixed to wall, floor standing or suspended from the ceiling as described:				
15.1	<u>Consulting Rooms:</u> Vertical bedhead trunking unit complete with 4x 16A dedicated earth socket outlets switched via a 15A double-pole MCB with red LED indicator light (power switched on), 3x punchings for gas outlets, 1x punching for nurse call outlet, 1x reading light, 1x RJ-45 data point and medical rail complete with mounting brackets	No.	7		
15.2	<u>Procedure Room:</u> 2m (estimated) horizontal bedhead trunking unit complete with 6x 16A dedicated socket outlets switched via a 15A double-pole MCB with red LED indicator light (power switched on), 4x punchings for gas outlets, 1x medical rail complete with mounting brackets, 2x RJ-45 data points	No.	1		
15.3	<u>Resuscitation Bay:</u> 3.5m (estimated) horizontal bedhead trunking unit complete with 12x 16A dedicated socket outlets switched via a 15A double-pole MCB with red LED indicator light (power switched on), 8x punchings for gas outlets, 2x medical rail complete with mounting brackets, 3x RJ-45 data points	No.	1		
15.4	Wall mounted X-Ray viewing screen as per specifications	No.	2		
16	<u>Light Switches:</u>				
	Flush switch with white cover plate and chrome screws in a box measured elsewhere;				
16.1	16A 1-lever 1-way switch	No.	40		
16.2	16A 1-lever 2-way switch	No.	10		
16.3	16A 2-lever 1-way switch	No.	10		
16.4	National 16A photocell unit with bracket	No.	3		
16.5	Dual technology (PIR and Ultrasonic) 360° occupancy sensor complete with accessories	No.	60		
17	<u>Switched Socket Outlet:</u>				
	Flush switched socket outlets with white cover plate and chrome screws, mounted in a box measured elsewhere;				
17.1	16A normal single switched socket outlet white in colour suitable to accommodate SANS 164-1 and SANS 164-2 socket outlets	No.	8		
	SUB-TOTAL PAGE 5 : CARRIED FORWARD TO SUMMARY PAGE				

UPGRAGE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
17.2	16A normal double switched socket outlet white in colour suitable to accommodate SANS 164-1 and SANS 164-2 socket outlets	No.	70		
17.3	16A shaved single switched socket outlet red in colour suitable to accommodate SANS 164-1 and SANS 164-2 socket outlets	No.	8		
17.4	16A shaved double switched socket outlet red in colour suitable to accommodate SANS 164-1 and SANS 164-2 socket outlets	No.	12		
17.5	5A Round 3-Pin unswitched socket outlet	No.	250		
18	<u>Power Isolators</u>				
	Power outlets with white cover plates and chrome screws, mounted in a box, measured elsewhere:				
18.1	30A double-pole isolator in 100mm x 100mm box	No.	20		
18.2	60A double-pole isolator in 100mm x 100mm box	No.	10		
18.3	60A double-pole UPS isolator mounted in 100mm x 100mm box	No.	1		
	Power outlets in outdoor utility box for external installations				
18.4	60A double pole isolator mounted in outdoor utility box for air-conditioning units	No.	15		
18.5	60A triple pole isolator mounted in outdoor utility box for air-conditioning units	No.	12		
19	<u>Luminaires and Equipment:</u>				
	Supply and install luminaries complete with lamps, connectors, electronic gear, drivers, etc. as described in the Lighting Schedule				
19.1	Type B1 - Wall mounted IP-65 26W LED round vandal-proof bulkhead luminaire complete with die-cast aluminium base and mounting accessories; (refer to Light Schedule)	No.	15		
19.2	Type D1 - Recessed 15W LED downlighter complete with electronic driver, 3m cabtyre lead and a 5A moulded plug-top and mounting accessories; (refer to Light Schedule)	No.	30		
19.3	Type D1 (Emerg.) - Recessed 15W LED emergency downlighter complete with battery backup and minimum 30 minutes standby time, electronic driver, 3m cabtyre lead and a 5A moulded plug-top and mounting accessories; (refer to Light Schedule)	No.	5		
	SUB-TOTAL PAGE 6 : CARRIED FORWARD TO SUMMARY PAGE				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
19.4	Type D2 - Recessed 15W LED moisture-proof downlighter complete with electronic driver, 3m cabtyre lead and a 5A moulded plug-top and mounting accessories; (refer to Light Schedule)	No.	25		
19.5	Type D2 (Emerg.) - Recessed 15W LED emergency moistureproof downlighter complete with battery backup and minimum 30 minutes standby time, electronic driver, 3m cabtyre lead and a 5A moulded plug-top and mounting accessories; (refer to Light Schedule)	No.	15		
19.6	Type D3 - Recessed 6W LED downlighter complete with electronic driver, 3m cabtyre lead and a 5A moulded plug-top and mounting accessories; (refer to Light Schedule)	No.	30		
19.7	Type F1 - Recessed 1200mm x 600mm, 60W LED panel luminaire complete with 3m cabtyre lead and a 5A moulded plug-top, electronic driver and mounting accessories; (refer to Light Schedule)	No.	90		
19.8	Type F1 (Emerg.) - Recessed 1200mm x 600mm, 60W LED emergency panel luminaire with battery backup and 60 minutes standby time, fitting shall be complete with 3m cabtyre lead and a 5A moulded plug-top, electronic driver and mounting accessories (refer to Light Schedule)	No.	30		
19.9	Type F2 - Recessed 1200mm x 600mm, 60W Cyanosis Medical LED panel luminaire complete with 3m cabtyre lead and a 5A moulded plug-top, electronic driver and mounting accessories; (refer to Light Schedule)	No.	13		
19.10	Type F2 (Emerg.) - Recessed 1200mm x 600mm, 60W Cyanosis Medical LED emergency panel luminaire with battery backup and 60 minutes standby time, fitting shall be complete with 3m cabtyre lead and a 5A moulded plug-top, electronic driver and mounting accessories (refer to Light Schedule)	No.	6		
19.11	Type F3 - Surface mounted 1,200mm 60W open channel LED light fitting complete with control gear, mounting accessories; (refer to Light Schedule)	No.	16		
19.12	Type F4 - Recessed 600mm x 600mm, 40W LED panel luminaire, fitting shall be complete with 3m cabtyre lead and a 5A moulded plug-top, electronic driver and mounting accessories (refer to Light Schedule)	No.	40		
19.13	Type F4 (Emerg.) - Recessed 600mm x 600mm, 40W LED emergency panel luminaire with battery backup and 60 minutes standby time, fitting shall be complete with 3m cabtyre lead and a 5A moulded plug-top, electronic driver and mounting accessories (refer to Light Schedule)	No.	12		
	SUB-TOTAL PAGE 7 : CARRIED FORWARD TO SUMMARY PAGE				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 1 - ELECTRICAL INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
19.14	Type F5 - Surface mounted 1,200mm moistureproof 60W open channel LED light fitting complete with control gear, mounting accessories; (refer to Light Schedule)	No.	25		
19.15	UV Light - Ceiling mounted UV germicidal irradiation luminaire complete with 2x PL-L 18W UV lamps, control gear, and accessories, SABS approved (refer to Light Schedule)	No.	10		
19.16	EXIT - Self-contained LED emergency exit light fitting complete with electronic driver and mounting accessories; (refer to Light Schedule)	No.	11		
	Supply and install the following medical examination lights complete with mounting accessories as per the detailed specifications				
19.17	Wall mounted LED medical examination light of 10,000 - 30,000 lux for the Consulting Rooms, Paediatric Treatment & Triage Room	No.	9		
19.18	Ceiling mounted LED medical examination light of 30,000 - 60,000 lux for the Procedure Room	No.	1		
	Supply and install the following equipment complete with accessories as per the detailed specifications				
19.19	Stainless steel hand-dryer	No.	5		
19.20	10kVA 3-phase in / 1-phase out UPS unit to be installed in the DB room as per specifications and information schedule	No.	1		
20	Supply and install galvanised draw-wire in all conduits and sleeve pipes				
20.1	1,6mm diameter steel draw wire	m	500		
SUB-TOTAL PAGE 8 : CARRIED FORWARD TO SUMMARY PAGE					

DR KENNETH KAUNDA DISTRICT, NORTH WEST

Item	Description	Unit	Qty	Rate	Amount
BILLS OF QUANTITIES - ELECTRICAL INSTALLATION: SUMMARY PAGE					
1	SUB-TOTAL : PAGE 1				
2	SUB-TOTAL : PAGE 2				
3	SUB-TOTAL : PAGE 3				
4	SUB-TOTAL : PAGE 4				
5	SUB-TOTAL : PAGE 5				
6	SUB-TOTAL : PAGE 6				
7	SUB-TOTAL : PAGE 7				
8	SUB-TOTAL : PAGE 8				
	TOTAL: ELECTRICAL INSTALLATION - CARRIED FORWARD TO SUMMARY PAGE				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BIILL NO 2 - NURSE CALL SYSTEM INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
1	Nurse Call System Installation				
	Supply, deliver, install and commission the following:				
1.1	Main Control Panel for system complete with LED indicator panels and layout of Emergency Unit complete with power supply unit, back-up battery and necessary accessories etc.	No.	1		
1.2	Bedhead Trunking Nurse Call Unit with inline socket for handheld unit and reset button	No.	12		
1.3	Patient Handheld Unit with nurse call functions	No.	12		
1.4	Bathroom Push Call Unit	No.	5		
1.5	Bathroom Pull Call Unit with nylon string	No.	5		
1.6	Overdoor ceiling mounted indication lights	No.	15		
1.7	Nurse Call System Cabling	m	2,200		
1.8	20mm PVC conduit	m	500		
1.9	25mm PVC conduit	m	500		
1.10	Occupational Health and Safety Requirements	Item	1		
1.11	As-built drawings, test certificates and maintenance manuals etc.	Item	1		
1.12	Testing and commissioning of complete installation	Item	1		
	<u>Other: (Please specify)</u>				
	TOTAL: NURSE CALL SYSTEM - CARRIED FORWARD TO SUMMARY PAGE				

UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL					
DR KENNETH KAUNDA DISTRICT, NORTH WEST					
SECTION 4: BILL NO 3 - FIRE DETECTION INSTALLATION					
Item	Description	Unit	Qty	Rate	Amount
1.1	Addressable Main Control Panel indicating the various zones complete with back-up battery; the panel shall make an allowance for N/O (normally open) and/or NC (normally closed) contacts for integration of the HVAC plant	No.	1		
1.2	Addressable smoke detectors complete with base to be mounted in the ceiling void	No.	50		
1.3	Addressable smoke detectors complete with base to be mounted on the ceiling or slab	No.	90		
1.4	Addressable heat detectors complete with base to be mounted in the ceiling void and on the ceiling void or slab	No.	15		
1.5	Manual Call Point	No.	15		
1.6	Alarm Sounder with Beacon Light	No.	2		
1.7	Strobe Light Unit	No.	5		
1.8	Fire Retardant Cable	m	4,500		
1.9	20mm PVC conduit	m	500		
1.10	25mm PVC conduit	m	500		
1.11	Compliance to Occupational Health and Safety Requirements	Item	1		
1.12	Testing and commissioning of complete installation	Item	1		
1.13	As-built drawings, test certificates and maintenance manuals etc.	Item	1		
	<u>Other: (Please specify)</u>				
TOTAL: FIRE DETECTION INSTALLATION - CARRIED FORWARD TO SUMMARY PAGE					

<p style="text-align: center;">UPGRADE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL</p> <p style="text-align: center;">DR KENNETH KAUNDA DISTRICT, NORTH WEST</p> <p>SECTION 4 - SUMMARY</p>	
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DR KENNETH KAUNDA DISTRICT, NORTH WEST

SECTION 4 - SUMMARY

Item	Description	Carried From Page No	Amount
Bill 1	Electrical Installlation	179	
Bill 2	Nurse Call Installation	180	
Bill 3	Fire Detection Installation	181	
TOTAL: ELECTRICAL AND ICT INSTALLATION - CARRIED FORWARD TO FINAL SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>PREAMBLES TO BILLS OF QUANTITIES</p> <p>These Bills of Quantities contain pages numbered consecutively.</p> <p>Before the Tenderer submits his tender he should check the number of pages, and if any are found missing or duplicated, or the figures or writing indistinct, he should apply to the Engineer at once and have same rectified as no liability whatsoever will be admitted by the Engineer in respect of errors in tender due to the foregoing.</p> <p>The Bills of Quantities form part of and must be read in conjunction with the Specification, which document contains the full description of the work to be done and material and equipment to be used and unless otherwise described in the Bills of Quantities, reference should be made to the Specification for the full meaning of descriptions of work to be done and materials and equipment to be used in this service.</p> <p>All item rates and extensions must be priced in detail before submission of Tenders.</p> <p>The total tender price in the bill shall constitute the contract price of the successful Tenderer.</p> <p>Tenderers are advised to check their item extensions and total additions, as no claim for arithmetical errors will be considered.</p> <p>No alteration, erasure or addition is to be made in the text of the Bills of Quantities. Should any alteration, erasure or addition be made, it will not be recognised but the original wording of the Bills of Quantities will be adhered to.</p> <p>The priced Bills of Quantities of the successful Tenderer will be checked and the Engineer reserves the right to call for adjustments to any individual price and to rectify any discrepancy whilst the Total Tender Price, as submitted, remains unaltered.</p>				
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 1 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>Brought Forward</p> <p>The responsibility for the accuracy of the quantities written into the Bills remains with the person who prepared the Bills. The Tenderer shall be relieved of responsibility of measuring quantities at the tender stage, and the tender sum submitted shall be in respect of the quantities set out in the Bills, although he will be required to make his assessment of items such as brackets, fixings, etc., from details stated in the Bills and shall include in the item price for such small installation materials as are required for the complete installation in accordance with the Specification.</p> <p>The quantities in these Bills of Quantities are <u>provisional and are not to be used for ordering materials</u>.</p> <p>Variations in the scope and extent of the work included in the Bills shall be allowed to meet the Employer's requirements and shall be measured and costed at rates entered in the Bills, where appropriate, and shall form an addition to or deduction from the total of the Bills. Any items or variation for which rates have not been included in the Bills shall be agreed and priced as non-scheduled items in accordance with the provisions of the contract.</p>				-
A12	Unless a separate rate for the supply and for the installation of any items is specifically called or, the supply and installation costs of any item shall be fully included in the unit price.				
A13	The description of each item shall, unless otherwise stated herein, be held to include making, conveying and delivery, unloading storing, unpacking, hoisting, setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works, return of packings, establishment charges, profit and all other obligations arising out of the Conditions of Contract.				
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 1 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>Brought Forward</p> <p>All measurements are nett, unless otherwise stated, and Tenderers must allow in the rate for wastage.</p> <p>Hangars, supports, splices, joining drilling etc shall form part of unit rate.</p> <p>All materials or equipment specified under a trade name, catalogue or reference number shall, for competitive tender pricing, be exactly as described in this tender.</p>				
TOTAL CARRIED TO MECHANICAL SUMMARY					

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>PREAMBLES TO BILLS OF QUANTITIES</p> <p>These Bills of Quantities contain pages numbered consecutively.</p> <p>Before the Tenderer submits his tender he should check the number of pages, and if any are found missing or duplicated, or the figures or writing indistinct, he should apply to the Engineer at once and have same rectified as no liability whatsoever will be admitted by the Engineer in respect of errors in tender due to the foregoing.</p> <p>The Bills of Quantities form part of and must be read in conjunction with the Specification, which document contains the full description of the work to be done and material and equipment to be used and unless otherwise described in the Bills of Quantities, reference should be made to the Specification for the full meaning of descriptions of work to be done and materials and equipment to be used in this service.</p> <p>All item rates and extensions must be priced in detail before submission of Tenders.</p> <p>The total tender price in the bill shall constitute the contract price of the successful Tenderer.</p> <p>Tenderers are advised to check their item extensions and total additions, as no claim for arithmetical errors will be considered.</p> <p>No alteration, erasure or addition is to be made in the text of the Bills of Quantities. Should any alteration, erasure or addition be made, it will not be recognised but the original wording of the Bills of Quantities will be adhered to.</p> <p>The priced Bills of Quantities of the successful Tenderer will be checked and the Engineer reserves the right to call for adjustments to any individual price and to rectify any discrepancy whilst the Total Tender Price, as submitted, remains unaltered.</p>				
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 1 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>Brought Forward</p> <p>The responsibility for the accuracy of the quantities written into the Bills remains with the person who prepared the Bills. The Tenderer shall be relieved of responsibility of measuring quantities at the tender stage, and the tender sum submitted shall be in respect of the quantities set out in the Bills, although he will be required to make his assessment of items such as brackets, fixings, etc., from details stated in the Bills and shall include in the item price for such small installation materials as are required for the complete installation in accordance with the Specification.</p> <p>The quantities in these Bills of Quantities are <u>provisional and are not to be used for ordering materials</u>.</p> <p>Variations in the scope and extent of the work included in the Bills shall be allowed to meet the Employer's requirements and shall be measured and costed at rates entered in the Bills, where appropriate, and shall form an addition to or deduction from the total of the Bills. Any items or variation for which rates have not been included in the Bills shall be agreed and priced as non-scheduled items in accordance with the provisions of the contract.</p>				-
A12	Unless a separate rate for the supply and for the installation of any items is specifically called or, the supply and installation costs of any item shall be fully included in the unit price.				
A13	The description of each item shall, unless otherwise stated herein, be held to include making, conveying and delivery, unloading storing, unpacking, hoisting, setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works, return of packings, establishment charges, profit and all other obligations arising out of the Conditions of Contract.				
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 1 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<p>Brought Forward</p> <p>All measurements are nett, unless otherwise stated, and Tenderers must allow in the rate for wastage.</p> <p>Hangars, supports, splices, joining drilling etc shall form part of unit rate.</p> <p>All materials or equipment specified under a trade name, catalogue or reference number shall, for competitive tender pricing, be exactly as described in this tender.</p>				
TOTAL CARRIED TO MECHANICAL SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	FIRE PROTECTION INSTALLATIONS PREAMBLES Piping Description of piping shall be deemed to include joints, flanges, fittings, supports, brackets, painting, etc Valves Descriptions of valves shall be deemed to include flanged or screwed connections to piping, reducers, supports, etc. Assembling Descriptions of manufactured items shall be deemed to include for complete assembling and handing over in a proper working order. Pricing It is expected from the Tenderer to price each individual item in this bill of quantities and no alterations, omissions or additions shall be made to the bill or specification. Value Added Tax (VAT) Prices for individual items in this bill must be exclusive of VAT. Provision has been made in the Final Summary of this bill for the lump sum addition of VAT. Ductwork etc Galvanised sheet steel low velocity supply air ducts etc, fixed horizontally, complete with necessary joints, connections, cutting, longitudinal seams, transverse joints, cross breaking and/or beading, duct stiffening, tie rods, hangers, rivets, screws, bolts and other fastening equipment, sealing and short lengths, as described. INERT GAS FIRE SUPPRESSION				
	CARRIED TO MECHANICAL SUMMARY				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 3 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p>Preliminaries to the Bill</p> <p>This Bill of Quantities forms part of the contract documents and is to be read in conjunction therewith. All works billed here shall include for the full scope of service specified including but not limited to supply, delivery, installation, commissioning, documentation, building tuning, project closeout and administrative requirements, and all works as necessary to provide a working product in accordance with the project performance criteria.</p> <p>Quantities indicated here are to be verified by the No variation in rates shall be due based on variation in quantities, rate of exchange or escalation.</p> <p>Errors and omissions of equipment or material required to execute the project solution specified or indicated on the drawings shall be brought to the attention of the responsible engineer for clarification, failing which the provision of such items shall be deemed included in the project rates.</p> <p>All works required to execute the scope of works in accordance with the project program and quality requirements are deemed included in the rates and totals provided below.</p> <p>Rates provided shall include for fixing, hangers, fittings, transformations, sealant and all other items required to deliver a functional system in accordance with the design intent and specifications. Rate includes the supply, delivery, labour and installation of equipment</p> <p>The bill of quantities shall not be used as the basis for material order.</p> <p>The values here shall be entered in South African Rands and exclusive of VAT.</p>				
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 3 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Site Establishment	lot	1		
	Workshop Drawings	No	3		
	Builder's Works The Contractor shall make provision for sleeves, building wraps and all other supporting equipment to complete the installation.	lot	1		
	OPERATING AND MAINTENANCE MANUALS The Contractor shall make provision for 4 x copies of O & M Manuals in accordance with the detail in the Standard specification.	No	3		
	TRAINING OF CLIENTS STAFF The Contractor shall make provision for 1 full day's training of the Clients Staff, on the operation of the installation.	No	5		
	AS-BUILT LAYOUT DRAWINGS The Contractor shall make provision for a detailed set of As Fitted Layout drawings of the entire installation, as the project progresses.	No	3		
	COMMISIONING AND TESTING The Contractor shall make provision to commission and pressure test the installation during construction	lot	1		
	MAINTENANCE AND GUARANTEE The Contractor shall make provision for 1 x Full years Maintenance and Guarantee of the entire installation. 11 x Standard Maintenance visits and 1 x Major service is required throughout the 12 months.	lot	1		
	External uPVC or HDPE pipework connection from site reticulation underground pipework to connect to internal copper pipework.	lot	1		
	Contingency Amount: Included for the future unforeseen future changes.	lot	1		
	Safety Manual to OHS and Construction regulations standard	lot	1		
	Programming of the works to meet the deadline dates	lot	1		
	Carried to Summary				R -

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	VRV SYSTEM - Administration Section Supply including delivery and installation, testing and commissioning with 12 months maintenance of the following VRV Heat Recovery units, ceiling mounted cassette units, hide-away units, wall mounted type indoor and outdoor units, complete with electrical connections, piping, insulation and R410a as the working fluid with all necessary accessories and ancillaries as per the drawings and specifications. Each evaporating unit with wall mounted remote control. REFNET joints and headers to be included. Automatic switchover between heating and cooling. Cable trays and pipe supports to be included. Contractor to verify maximum pipe distances and all copper pipe sizing. System to be able to provide heating capacity equal to design total cooling capacity continuously with an ambient of +5 deg C. All cabling for communication with central building controller required. System shall be capable of simultaneous heating in cooling in different parts of the building. NB: Include all copper piping, insulation, fittings, valves and pipe supports. The average distance from Condensing unit to Evaporator is 40m. The maximum distance to any individual unit is 80m. CASSETTE UNITS Cassette Units (VRV) split type unit complete with accessories (piping, controls etc.) as specified. 9,000 BTU - Porter's Room 12,000 BTU - Security Reception 18,000 BTU - Road Accident Fund 24,000 BTU - Matron / HOD Office, Doctor's Office 30,000 BTU - Admin Office 36,000 BTU - Nurses Station 1 and 2 WALL MOUNTED UNITS Wall mounted Units (VRV) split type unit complete with accessories (piping, controls etc.) as specified. 24,000 BTU - Server Room VRV CONDENSERS A set of outdoor aircooled Heat Recovery condensing units complete with BC boxes. For multiple units in parallel, a DB box is required for the single feed cable to be connected. VSD inverter drive units required. Low noise requirement. Capacity to suit all items listed in this section				
		No	1		
		No	1		
		No	1		
		No	3		
		No	1		
		No	1		
		No	4		
		No	8		
Carried Forward					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought forward				
	CENTRAL CONTROLLER Complete controller based on BACNet IP protocol to control all condensers and evaporators. User-friendly Colour LCD touch panel display, Yearly schedule, Auto heat/cool change-over mode, Temperature limitation function, Enhanced history function, Interlock Function, Turn the unit OFF if a user didn't, Define the setpoint range that users can change, Reset setpoint regularly, Schedule the operation time for each application. Complete unit installed	No	1		
	COPPER PIPING Refrigeration class copper piping including running joints, fittings, bends, pipe clamps, insulation and connections. (Piping shall be installed on cable trays) Complete copper piping system	No	1		
	A set of outdoor aircooled Heat Recovery condensing units complete with BC boxes. For multiple units in parallel, a DB box is required for the single feed cable to be connected. VSD inverter drive units required. Low noise requirement. Capacity to suit all items listed in this section	No	3		
	CENTRAL CONTROLLER Complete controller based on BACNet IP protocol to control all condensers and evaporators. User-friendly Colour LCD touch panel display, Yearly schedule, Auto heat/cool change-over mode, Temperature limitation function, Enhanced history function, Interlock Function, Turn the unit OFF if a user didn't, Define the setpoint range that users can change, Reset setpoint regularly, Schedule the operation time for each application. Complete unit installed	No	1		
	COPPER PIPING Refrigeration class copper piping including running joints, fittings, bends, pipe clamps, insulation and connections. (Piping shall be installed on cable trays) Complete copper piping system	Sum	1		
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 4 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought forward				
	ODU 1 FL - VRV Outdoor Unit of 107 kW Heating capacity 95,2kW Cooling Capacity with rated COP of at least 4 or higher.	No	2		
	Nurse Station 1				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 4,00kW Heating, 3,6kW Cooling Capacity	No	1		
	Dressing Room				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Consulting and Exam Room 1				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Consulting and Exam Room 2				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Consulting and Exam Room 3				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Consulting and Exam Room 4				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Consulting and Exam Room 5				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Consulting and Exam Room 6				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 4 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Consulting and Exam Room 7				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Procedure Room				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 4,00kW Heating, 3,6kW Cooling Capacity	No	1		
	Resuscitation Bays				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 4,00kW Heating, 3,6kW Cooling Capacity	No	2		
	Boardroom				
	Hide away Fan Coil Unit Capacity 7,1kW Cooling and 8kW Heating, Ducted Unit Complete with remote and condensate pump	No	2		
	Diffusers and Grilles:				
	CCD-1: Constant Volume Diffuser, Diameter 250mm	No.	6		
	WL01- 600x600 Intake weather louver	no.	1		
	Ducting				
	450x350mm	m	6		
	400x350	m	6		
	350x350	m	6		
	300x300	m	6		
	300x300 Duct End stop	No	1		
	Spigots Ø250mm x 1m	No	6		
	Doctor's Office				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	HOD Office				
	4 Way Ceiling Cassette Unit c/w Occupancy and Floor sensor, ventilation kit and Temperature sensing capacity 3,26kW Heating, 2,8kW Cooling Capacity	No	1		
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 4 - MECHANICAL SERVICES

[illegible]

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	FIRE DAMPER Manually adjustable solenoid fusible link type c/w black steel ducting to match damper size and complete with all other necessary fittings. Complete damper to SANS 193. 600mm x 600mm 500mm x 400mm	No No	3 3		
	INLINE DAMPER Manually adjustable solenoid fusible link type c/w black steel ducting to match damper size and complete with all other necessary fittings. 650x650mm 450x450mm	No No	2 2		
	AREA EXTRACTION SYSTEM for Circulation Passage Supply, erection & commissioning of complete fan systems acc to SANS				
	EXTRACTION FAN Axial flow fan to SANS, and selected to run at optimum efficiency Premium efficiency IE3 electric motor to IP66 and SANS 1804. Material of construction is galvanized steel. To be mounted in ceiling space. Complete with VSD (Variable speed drive) and pressure transmitter sensor to do PID control fan speed on an adjustable set point pressure between -30 Pa and 50 Pa. The pressure sensor is to be mounted in the room it is serving. The VSD controller to be installed in a dust proof panel close to fan with heat rejection capabilities. System to be designed to operate at 20% motor speed continuously without overheating. Include the supply, install and test of a silencer to achieve NC 25 (35 dB A) noise in room under the operating conditions specified below. The maximum pressure drop over the silencer is 20 Pa under the operating conditions specified below. Fans must be manufactured in a ISO 9001 certified factory. Fan to be installed and tested to SANS 10173. Vibration mountings and flexible connectors between fan and ducting is required. Air flow to BS848: Part 1, 1980 Noise to BS848: Part 2, 1985. Fan data book and test certificates required.				
	Carried Forward				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Duty 4 m ³ /s, suction pressure drop 41Pa, discharge 86Pa, to atmosphere.	No	1		
	STRAIGHT DUCTING				
	0				
	500mm x 400mm rectangular duct	m	45		
	400mm x 400mm rectangular duct	m	25		
	300mm x 300mm rectangular duct	m	20		
	300mm x 250mm rectangular duct	m	15		
	REDUCERS				
	(500mm x 400mm) x (400mm x 400mm)	No	4		
	(400mm x 400mm) x (300mm x 300mm)	No	4		
	FLEXIBLE DUCTING				
	φ250mm	m	30		
	BALANCING DAMPER				
	φ250mm inlet size	No	20		
	EXTRACTION GRILLES				
	Extraction grilles ceiling mounted, Rickard type RCV-OBD or similar				
	400 x 400mm with adjustable built in damper	No	20		
	WEATHER LOUVERS				
	Weather Louvre, similar or equivalent to Trox AWG, anodised aluminium complete with plenum				
	600 x 450mm	No	2		
	Boardroom				
	FCU 01				
	Hide away Fan Coil Unit Capacity 7,1kW Cooling and 8kW Heating, Ducted Unit Complete with remote and condensate pump	No	4		
	Diffusers and Grilles:				
	CCD-1: Constant Volume Diffuser, Diameter 250mm	No.	10		
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 4 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	WL01- 600x600 Intake weather louver	no.	2		
	Ducting				
	450x350mm	m	6		
	400x350	m	6		
	350x350	m	6		
	300x300	m	6		
	300x300 Duct End stop	No	1		
	Spigots Ø250mm x 1m	No	10		
	<u>Wall Mounted Extraction Fans In Ablutions</u>				
	WMF 01 - 30l/s @150Pa	No	12		
	FAF 01 Fresh Air Supply to Casualty Ward				
	Weather louvre LVR 01 , 1200 x 600 with rodent mesh	No	2		
	Filters - Intake systems - Washable type WP77 or equal Complete with filter frame and access hatch for filter cleaning purposes.	No	4		
	SA 01 Sound attenuators	No	4		
	FAF 01 - Ø500mm Axial Flow Fan 800 l/s @ ± 150 Pa. Fan to be on Variable speed drive	No	2		
	° Flexible connections Ø500	No	2		
	° Straight duct, Ø500mm	m	10		
	° Straight duct Ø500	m	6		
	° Straight duct Ø475	m	6		
	° Straight duct Ø425	m	6		
	° Straight duct Ø400	m	6		
	° Straight duct Ø375	m	6		
	° Straight duct Ø350	m	6		
	° Straight duct Ø325	m	8		
	° Transformation Ø300	No	1		
	° Stop end for duct Ø300				
Carried to Mechanical Summary					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Ring Main circulating pumps connected in parallel operating on lead lag system @ 1.2 l/s				
	Supply Hot Water Pump 1,2 l/s @ 10 Bar	No	4		
	Return Hot Water Pump 0,66 l/s @ 10 Bar	No	4		
	<u>Hot and Cold Water Piping</u>				
	Pipe work shall be Class 2 Copper Pipe suitable for Hot and Cold Water rated for 16Bar (Durapipe, Fratherm, PVC-C PN 16 or approved Equal) Alternative pex-alpex multilayered pipes is acceptable.				
	Indicated sizes are nominal diameters and these relate to internal diameters.				
	Piping to include , fittings and valves, flanges, bolts, nuts, washers, gaskets				
	Ø15mm	m	500		
	Ø20mm	m	400		
	Ø22mm	m	300		
	Ø24mm	m	200		
	Ø28mm	m	200		
	Ø32mm	m	200		
	Ø35mm	m	200		
	Ø42mm	m	100		
	Ø50mm	m	100		
	Piping Tees				
	Ø15mm	No	100		
	Ø20mm	No	80		
	Ø22mm	No	60		
	Ø24mm	No	40		
	Ø28mm	No	40		
	Ø32mm	No	40		
	Ø35mm	No	40		
	Ø42mm	No	20		
	Ø50mm	No	20		
	Piping Copper Elbows				
	Ø15mm	No	0		
	Ø20mm	No	0		
	Ø22mm	No	0		
	Ø24mm	No	0		
	Ø28mm	No	0		
	Ø32mm	No	0		
	Ø35mm	No	0		
	Ø42mm	No	0		
	Ø50mm	No	75		
	Carried Forward				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Piping Copper Shut off Valves				
	Ø15mm	No	0		
	Ø20mm	No	0		
	Ø22mm	No	0		
	Ø24mm	No	0		
	Ø28mm	No	10		
	Ø32mm	No	8		
	Ø35mm	No	6		
	Ø42mm	No	4		
	Ø50mm	No	4		
	Piping Insulation and Cladding				
	Insulation to be Glass wool snap on pipes, non combustible and achieve an R value of 1.00 to SANS10400XA Regulations				
	Cladding to be Galvanised steel sheets				
	Ø15mm	m	0		
	Ø20mm	m	0		
	Ø22mm	m	0		
	Ø24mm	m	0		
	Ø28mm	m	500		
	Ø32mm	m	400		
	Ø35mm	m	300		
	Ø42mm	m	200		
	Ø50mm	m	200		
	Hot Water Plant Equipmnet				
	2000 Litres Vertical Hot Water storage complete with back-up heating element of 6kW, pressure gauge control valve, strainer , union, pressure relief valve	No	4		
	Chemical dosing system complete with a 2000 Litres Chemical Mixing tank, dosing pump @ 5 l/s @ 5bar with required piping and fittings	No	2		
	Heat Pump				
	6kW Air to water Heat pump capable of 500l/hr with a recovery time of 4hours	No	4		
	Install Complete Dosing System to do 2m³/hr with a 1m³ mixing tank to the feed water side of the heat pump.	No	1		
	<i>Dosing System to achieve:</i>				
	<i>Free Chlorine <0,2mg/l</i>				
	<i>Iron (Fe) 0,5mg/l</i>				
	<i>Manganese (Mn) 0,2mg/l</i>				
	<i>Calcium Carbonate CaCo3 <50mg/l</i>				
	Install a Descaler on the Hot and Cold Water Supply main lines	No	2		
	Total Carried To Summary				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Fire Protection to Emergency and Casualty				
	Testing of System				
	Conduct Testing of the following Fire systems and certify integrity and reliability according to SANS standard Fire System Requirements				
	All piping	Sum	1		
	Fire Hose reels	No	10		
	Fire Extinguishers	No	21		
	Fire Hose reels				
	Install non-swinging, rotary pattern type fire hose reels in the positions as indicated on the project drawings. The fire hose reels must be complete with 30 m long, 20 mm diameter hose, hose run-out guide, clamps, nozzle bracket, fixing brackets and bolts, nozzle-cock and 25 mm stop valve all to conform to SANS 543. Fit rotary type cocks to the hose reels. Provide hose reel bases with four bolt holes spaced and orientated as per SANS 543. Use bolts of at least 10 mm diameter and of a suitable length to fix the hose reel to the wall. Hose reel components must be manufactured from the following components: Water seal housing and spindle: In accordance with SANS 543 Fire hose: In accordance with SANS 543 Hose run out guide: Chromium plated steel Base: Mild steel. Hose reel to be installed in box with breakglass to open to prevent vandalism and tampering. Complete installed firehose reel				
	PORTABLE FIRE EXTINGUISHER:				
	Install portable fire extinguishers with steel bases in the positions indicated on the project drawings. Portable fire extinguishers must be of the type as specified in the Project Specification in accordance with SANS 1 0400 and SANS 0105. Extinguishers must be in accordance with SANS 1910. Each fire extinguisher must be complete with a Meranti backing board, mounting brackets and suitable wall anchors. Mount the fire extinguishers with the handle 1,2m from finished floor level. Provide fire extinguisher cabinets. The fire extinguisher cabinets must be of the glass fibre type with clear polycarbonate lids to prevent vandalism. Portable fire extinguishers must be in accordance with the following : Dry Chemical Powder (DCP) Type: SANS 1910 CO2 Type: SANS 1567 Portable fire extinguishers must be of the refillable type and must only be changed by specialist according to SANS 1475.				
	Complete installed fire extinguisher - 4.5kg DCP	No	4		
	Complete installed fire extinguisher - 9kg DCP	No	4		
	Complete installed fire extinguisher - 5kg CO2	No	2		
	Complete installed fire extinguisher - 9kg CO2	No	2		
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 6 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Brought Forward</u>				
	<u>Fire Signage</u>				
	Signage Drawings				
	Signage E1....29 Single units	No	10		
	Signage E1....29 Double Units	No	10		
	Signage E1....29 Tripple Units	No	10		
	Signage F1.....49 Single units	No	10		
	Signage F1.....49 Double units	No	10		
	Signage F1.....49 Tripple units	No	10		
	Signage F45/F46	No	10		
	<u>Fire door</u>				
	Fire door complete supply and install with frame to Class A	No	4		
	Class B	No	4		
	Class C	No	4		
	<u>Emergency escape door</u>				
	40mm solid wood emergency escape door to SANS. No Single door with pushbar	No	4		
	Double door with pushbar	No	4		
	Locking mechanism for single door with pushbar with	No	4		
	Locking mechanism for double door with pushbar with	No	4		
	<u>Fire water piping</u>				
	Supply, install and test galvanized piping to SANS for fire rated services with elbows and connection fittings				
	25 NB	m	140		
	32 NB	m	146		
	40 NB	m	160		
	50 NB	m	185		
	65 NB	m	50		
	80 NB	m	80		
	100 NB	m	100		
	<u>Carried Forward</u>				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 6 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	<u>Inert Gas Fire Suppression to Server Room and UPS Room</u>				
	Cylinder Assembly complete with a valve, siphon tube assembly and Inert gas charge	No	2		
	Seamless Inert gas cylinders 90Kg Gas should be a Clean Agent type gas	No	3		
	Cylinder Brackets to mount Cylinders to the wall on Proper Stands	No	3		
	Check valves to Isolate main Cylinder manifold from Interconnected reserve	No	3		
	Manual Control Valve and testing assembly	No	2		
	Automatic Control System - Complete electronic actuatiuon system with solenoid valve kit in normally closed position.	No	2		
	Remote electric manual station to be installed in IT Office to allow manual activation of system	No	2		
	Control Panel				
	Complete control panel with continous monitoring and Battery back up power for control of auxiliary Equipment	No	2		
	Initiating Devices - Heat detectors, Smoke detectors compatible with Control Panel	No	12		
	Gas Operated Alarm System - to sound an alarm in the event of an Activation	No	2		
	Discharge Nozzles - Installed in ceiling of UPS Room	No	8		
	Ventillation System to Extract Gas after a succesful Discharge	Lot	1		
	Total Carried To Summary				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p>Oxygen System</p> <p>Supply, install, pressure test & commissioning of complete existing medical gas pipe line system acc to SANS 7396. Existing copper reticulation piping to be re-used.</p> <p>Contractor to be SAQCC and SACGA qualified. Only to be used on all lines with operating pressure below 20 bar.</p> <p>The following installation standard shall be adhered to PROVINCE OF KWAZULU-NATAL DEPARTMENT OF HEALTH STANDARD SPECIFICATION AND DRAWINGS FOR MEDICAL GAS AND VACUUM SERVICES</p> <p>Copper Pipe</p> <p>Medical gas grade copper tubing in accordance with SANS 1453, temper grade M, installed complete with short lengths, cutting, plain couplings. Joints to be brazed strictly in accordance SANS 7396, support brackets and galvanized cable trays to put pipes on. SANS 7396 to be conformed to during installation and testing.</p> <p>Installer to be SAQCC and SACGA qualified. Only to be used on all lines with operating pressure below 20 bar. All elbows, t-pieces and fittings to be included</p> <p>dia 10 mm m 336</p> <p>dia 12 mm m 112</p> <p>dia 15 mm m 300</p> <p>dia 22 mm m 150</p> <p>dia 28 mm m 100</p> <p>dia 35 mm m 50</p> <p>dia 42 mm m 65</p> <p>dia 54 mm m 50</p> <p>Isolating Valves</p> <p>Medical Gas Line Ball Valve conforming to SANS 7396 rated for Oxygen use.</p> <p>dia 10 mm No 20</p> <p>dia 12 mm No 20</p> <p>dia 15 mm No 15</p> <p>dia 22 mm No 15</p> <p>dia 28 mm No 5</p> <p>dia 35 mm m 6</p> <p>dia 42 mm m 2</p> <p>dia 54 mm m 2</p>				
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 7 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Oxygen enrichment and depletion sensors Oxygen enrichment and depletion sensors supplied, Oxygen enrichment and depletion sensor set	No	5		
	Compressed Air System - LP Supply, install, pressure test & commissioning of complete existing medical gas pipe line system acc to SANS 7396. Existing copper reticulation piping to be re-used. Contractor to be SAQCC and SACGA qualified. Only to be used on all lines with operating pressure below 20 bar.				
	Copper Pipe Medical gas grade copper tubing in accordance with				
	dia 10 mm	m	150		
	dia 12 mm	m	100		
	dia 15 mm	m	50		
	dia 22 mm	m	65		
	dia 28 mm	m	50		
	dia 35 mm	m	0		
	dia 42 mm	m	0		
	dia 54 mm	m	0		
	Isolating Valves Medical Gas Line Ball Valve conforming to SANS 7396				
	dia 10 mm	No	15		
	dia 12 mm	No	5		
	dia 15 mm	No	6		
	dia 22 mm	No	2		
	dia 28 mm	No	2		
	dia 35 mm	m	0		
	dia 42 mm	m	0		
	dia 54 mm	m	0		
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 7 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Vacuum system Supply, install, pressure test & commissioning of complete existing medical gas pipe line system acc to SANS 7396. Existing copper reticulation piping to be re-used. Contractor to be SAQCC and SACGA qualified. Only to be used on all lines with operating pressure below 20 bar.				
	Copper Pipe (Surface Mounted) - In case replacement required Medical gas grade copper tubing in accordance with SANS 1453, temper grade M, installed complete with short lengths, cutting, plain couplings. Joints to be brazed strictly in accordance SANS 7396, support brackets and galvanized cable trays to put pipes on. SANS 7396 to be conformed to during installation and testing. Installer to be SAQCC and SACGA qualified. Only to be used on all lines with operating pressure below 20 bar. All elbows, t-pieces and fittings to be included				
	dia 10 mm	m	0		
	dia 12 mm	m	0		
	dia 15 mm	m	0		
	dia 22 mm	m	0		
	dia 28 mm	m	0		
	dia 35 mm	m	0		
	dia 42 mm	m	0		
	dia 54 mm	m	0		
	Isolating Valves Medical Gas Line Ball Valve conforming to SANS 7396 rated for Oxygen use.				
	dia 10 mm	No	0		
	dia 12 mm	No	0		
	dia 15 mm	No	0		
	dia 22 mm	No	0		
	dia 28 mm	No	0		
	dia 35 mm	m	0		
	dia 42 mm	m	0		
	dia 54 mm	m	0		
	Bottle traps Medical Gas Line Ball Valve conforming to SANS 7396 rated for Oxygen use. Supply and install	No	5		
	Carried Forward				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Common areas Clean, pressure test & commissioning of complete systems SANS 7396. Contractor to be SAQCC and SACGA qualified.				
	Alarm panel Local area alarm complete with cabling. The area alarm shall be as BeaconMedæ's Medipoint 26 Medical Gas Area Alarms or approved equivalent. Central alarm panel Local alarm panel Repeater alarm	No No No	1 3 3		
	Zone Service Unit (Area Valve Service Unit) The AVSU conforming to BS EN 739:1998, HTM 02-01 and BS EN ISO 7396-1:2007. The area service module shall be as BeaconMedæ's ZSU2 or approved equivalent. Supply and install	No	4		
	Area Service Module (ASM) Area Service Module conforming to HTM 02-01 and capable of carrying local area medical gas alarm and Six AVSUs. The area service module shall be as BeaconMedæ's Medizone Area Service Modules or approved equivalent. Supply and install	No	1		
	Signage Allow for signage for fire exits and fire instructions as described in particular specifications and to the Project Engineer's approval. Complete set	Lot	1		
	Carried Forward				

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 7 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Brought Forward				
	Bedhead unit				
	Bed head unit system installed, electrical sockets, lighting switches, telephone & data outlets, equipotential pins and nurse call system. Compliance to SANS and IUSS is required. Including gas terminal units.				
	1) Oxygen medical gas sockets qty of 2				
	2) Medical Air LP sockets of qty 2				
	3) Vacuum sockets of qty 2				
	4) 16x 16A Switch sockets on 2 circuits				
	5) 4x Data points				
	6) 1x Nurse call				
	7) 2x Dia 25mm Equipment pole (L=1.5m)				
	8) 2x Gabler shape medical rail (L=1.5m)				
	9) 1x HU15 luminaire (LED or T-5 Florescent)				
	Vertical ICU Bedhead unit wall mounted	No	0		
	Vertical ICU Bedhead unit floor mounted HU 19-01	No	6		
Total Carried to Mechanical Summary					

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: BILL 8 - MECHANICAL SERVICES

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	GENERAL				
	Site Establishment	lot	1		
	Workshop Drawings	lot	1		
	Builder's Works				
	The Contractor shall make provision for sleeves, building swraps and all other supporting equipment to complete the installation.	lot	1		
	OPERATING AND MAINTENANCE MANUALS				
	The Contractor shall make provision for 4 x copies of O & M Manuals in accordance with the detail in the Standard specification.	No	3		
	TRAINING OF CLIENTS STAFF				
	The Contractor shall make provision for 1 full day's	qty	5		
	AS-BUILT LAYOUT DRAWINGS				
	The Contractor shall make provision for a detailed set of As Fitted Layout drawings of the entire installation, as the project progresses.	lot	1		
	COMMISSIONING AND TESTING				
	The Contractor shall make provision to commission and pressure test the installation during construction	lot	1		
	MAINTENANCE AND GUARANTEE				
	The Contractor shall make provision for 1 x Full years Maintenance and Guarantee of the entire installation. 11 x Standard Maintenance visits and 1 x Major service is required throughout the 12 months.	lot	1		
	Contingency Amount: Included for the future	lot	1		
	Safety Manual to OHS and Construction regulations	lot	1		
	Safety officer full time on site.	mnth	5		
	Programming of the works to meet the deadline dates	lot	1		
	Underground detection of services before excavation.	lot			
	Remove underground piping where required	lot			
Carried to Mechanical Summary					

UPGRADE TO CASUALTY WARD AT POTCHEFSTROOM HOSPITAL, DR KENNETH KAUNDA DISTRICT, NORTH WEST
SECTION 5: MECHANICAL SERVICES SUMMARY

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	Preambles to Bills of Quantities				
2	Mechanical Installation Preambles				
3	P & G				
4	Heating Ventilation and Air Conditioning				
5	Domestic Water				
6	Fire Protection				
7	Medical Gas				
8	General				
Carried to Final Summary					

**UPGRAGE OF CASUALTY WARD AT POTCHEFSTROOM HOSPITAL
DR KENNETH KAUNDA DISTRICT, NORTH WEST**

FINAL SUMMARY

SEC	Description	Carried From Page No	Amount
1	Preliminaries and General	62	R
2	Builders Works	165	R
3	Provisional Sums	170	R
4	Electrical and ICT Installations	182	R
5	Mechanical Installations	209	R
	Sub-Total		R
	Add: Contingency Amount Allow for R 4 000 000.00 (Four Million Rands) contingency amount to be used as directed by the Client or Project Manager or be deducted in whole or part of if not required		R 4,000,000.00
	Sub-Total		R
	Add: Contract Price Adjustment Provision (CPAP) Allow an amount of R 3 500 000.00 (Three Million Five Hundred Thousand Rands) for Contract Price Adjustment Provisions (CPAP or Escalation)		R 3,500,000.00
	Sub-Total		R
	Add: Value Added Tax (15%)		R
	TOTAL CARRIED FORWARD TO FOEM OF OFFER		R