

Item No		Quantity	Amount
	<p><u>SECTION NO.1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>NOTES</u></p> <p>The agreement is to be the Form of Offer and Acceptance (Agreement)</p> <p>and</p> <p>The JBCC Principal Building Agreement (May 2018 edition 6.2) prepared by the Joint Building Contracts Committee, shall be the applicable agreement, amended as hereinafter described.</p> <p>The JBCC Principal Agreement contract data form an integral part of this agreement</p> <p>The Preliminaries published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement Edition 6.2 May 2018 shall be deemed to be incorporated in these bills of quantities, amended hereinafter described.</p> <p>The Contractor is deemed to have referred to the above-mentioned documents for the full intent and meaning of each clause thereof</p> <p>The clauses in the above-mentioned documents are hereinafter referred to by clause number and heading only.</p> <p>Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above-mentioned documents</p> <p>PREAMBLES FOR TRADES</p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained</p>		
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

Brought Forward

R

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

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

STRUCTURE OF THIS PRELIMINARIES BILL

Section A: A recital of the headings of the individual clauses of the aforementioned JBCC Principal Building Agreement

Section B: A recital of the headings of the individual clauses of the aforementioned Preliminaries document

Section C: Any special clauses to meet the particular circumstances of the project

PRICING OF PRELIMINARIES

Should the contractor select Option A or where option is prescribed in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V), and time related (T).

Carried Forward

R

Section No. 1
PRELIMINARIES AND GENERAL
Bill No. 1
Preliminaries

Brought Forward

R

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

Clause 1.0 - Definitions and interpretation

Definition of agreement

The definition of agreement is replaced with the following definition:

AGREEMENT : The Form of Offer and Acceptance (agreement) and the JBCC Principal Building Agreement, the completed JBCC PBA contract data, the contract drawings, the priced documents and any other documents introduced to in writing and signed by the parties.

Pricing of bills of quantities

The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except whereto be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packing, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this agreement Value Added Tax (VAT) is to be separately stated on the summary page of these bills of quantities

Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained

Prices for all construction equipment, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary

Abbreviated descriptions

The items in these bills of quantities utilise abbreviated descriptions. it is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. however, should the full intent and meaning of any description not be clear, the contractor shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of local and international best practice

Carried Forward

R

Section No. 1
PRELIMINARIES AND GENERAL
Bill No. 1
Preliminaries

	Brought Forward	R	
	Legal status of contractor		
	If the contractor constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:		
	1. The persons are deemed to be jointly and severally liable to the employer for the performance of this agreement		
	2. These persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons		
	3. The contractor shall not alter its composition or legal status without the prior written consent of the employer.		
	Errata by JBCC		
	Omit from definition of construction period the words: "excluding annual holiday periods"		
	Omit from definition of preliminaries the word: "priced"		
1	F:..... V:..... T:.....	Item	
	Clause 2.0 - Law, regulations and notices		
	The above clause shall be deemed to be extended as follow		
	Health and Safety		
	Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations 2014 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]		
	Carried Forward	R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

	Brought Forward	R
<p>Health and Safety</p> <p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations 2014 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Annexure 2014 for a copy of the relevant specification) and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification under section C of this Preliminaries bill [2.1]</p> <p>The contractor shall:</p> <ol style="list-style-type: none"> 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Co-operate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification 		
<p>2 F:..... V:..... T:.....</p> <p>Clause 3.0 Offer and acceptance</p>		Item
<p>3 F:..... V:..... T:.....</p> <p>Clause 4.0 - Assignment and cession</p>		Item
<p>4 F:..... V:..... T:.....</p> <p>Clause 5.0 - Contract documents</p> <p>Value Added Tax</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)</p>		Item
	Carried Forward	R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R	
	<p>Contract drawings</p> <p>The contract drawings are as listed on the contents page of the bills of quantities [5.1]</p> <p>Priced document as specification</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any</p> <p>Electronic issue of drawings</p> <p>All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on date such drawings have been dispatched electronically [5.5]</p> <p>Precedence</p> <p>Clause 5.6 is deemed to be deleted. The provisions of this Bill No.1 (Preliminaries) shall take precedence over any other documents which constitute this agreement [5.6]</p>		
5	<p>F:..... V:..... T:.....</p> <p>Clause 6.0 - Employer's agents</p> <p>Delegated authority</p> <p>The authority of the principal agent to issue contract instructions and perform duties for specific aspects of the works is delegated to agents as follows [6.2]</p> <p>1. Architect</p> <p>1.1 Duties:</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the works</p> <p>1.2 Contract instructions [17.0]:</p> <p>1.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <p>1.2.2 Alteration to design, standards or quality of the works provided that such contract instructions shall not substantially change the scope of works</p> <p>1.2.3 The site [13.2.4]</p> <p>1.2.4 Compliance with the law, regulations and bylaws [2.1]</p>		Item
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R
1.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works		
1.2.6 Opening up of work for inspection, removal or re-execution		
1.2.7 Removal or re-execution of work		
1.2.8 Removal or substitution of any materials and goods		
1.2.9 Protection of the works		
1.2.10 Making good physical loss and repairing damage to the works [8.0]		
1.2.11 Rectification of defects [21.2]		
1.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion		
1.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums		
1.2.14 Appointment of a subcontractor [14.0; 15.0]		
1.2.15 Termination of nominated n/s subcontract agreement [27.2.8]		
1.2.16 Work by (a) direct contractor(s) [16.0]		
1.2.17 Access by other or previous contractors to remedy defective work		
1.2.18 Removal from site of any person employed on the works		
1.2.19 Removal from site of any person not engaged on or connected with the works		
1.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]		
2. Quantity Surveyor		
2.1 Duties:		
The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works		
2.2 Contract instructions [17.0]:		
	Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

	Brought Forward	
2.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement		R
2.2.2 Alteration to design, standards or quality of the works provided that such contract instructions shall not substantially change the scope of works		
2.2.3 The site [13.2.4]		
2.2.4 Compliance with the law, regulations and bylaws [2.1]		
2.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works		
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2.2.7 Removal or re-execution of work		
2.2.8 Removal or substitution of any materials and goods		
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2.2.10 Making good physical loss and repairing damage to the works [8.0]		
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2.2.16 Work by (a) direct contractor(s) [16.0]		
2.2.17 Access by other or previous contractors to remedy defective work		
2.2.18 Removal from site of any person employed on the works		
2.2.19 Removal from site of any person not engaged on or connected with the works		
2.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]		
	Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

<p style="text-align: right;">Brought Forward</p> <p>3. Civil and Structural Engineer</p> <p>3.1 Duties:</p> <p>The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the works</p> <p>3.2 Contract instructions [17.0]:</p> <p>3.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <p>3.2.2 Alteration to design, standards or quality of the works provided that such contract instructions shall not substantially change the scope of works</p> <p>3.2.3 The site [13.2.4]</p> <p>3.2.4 Compliance with the law, regulations and bylaws [2.1]</p> <p>3.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works</p> <p>3.2.6 Opening up of work for inspection, removal or re-execution</p> <p>3.2.7 Removal or re-execution of work</p> <p>3.2.8 Removal or substitution of any materials and goods</p> <p>3.2.9 Protection of the works</p> <p>3.2.10 Making good physical loss and repairing damage to the works [8.0]</p> <p>3.2.11 Rectification of defects [21.2]</p> <p>3.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>3.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>3.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>3.2.15 Termination of nominated n/s subcontract agreement [27.2.8]</p> <p>3.2.16 Work by (a) direct contractor(s) [16.0]</p> <p>3.2.17 Access by other or previous contractors to remedy defective work</p> <p style="text-align: right;">Carried Forward</p>	R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	R	

<p style="text-align: right;">Brought Forward</p> <p>3.2.18 Removal from site of any person employed on the works</p> <p>3.2.19 Removal from site of any person not engaged on or connected with the works</p> <p>3.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]</p> <p>4. Mechanical Engineer</p> <p>4.1 Duties:</p> <p>The mechanical engineer is responsible for the all aspects of mechanical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions</p> <p>4.2 Contract instructions [17.0]:</p> <p>4.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <p>4.2.2 Alteration to design, standards or quality of the works provided that such contract instructions shall not substantially change the scope of works</p> <p>4.2.3 The site [13.2.4]</p> <p>4.2.4 Compliance with the law, regulations and bylaws [2.1]</p> <p>4.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works</p> <p>4.2.6 Opening up of work for inspection, removal or re-execution</p> <p>4.2.7 Removal or re-execution of work</p> <p>4.2.8 Removal or substitution of any materials and goods</p> <p>4.2.9 Protection of the works</p> <p>4.2.10 Making good physical loss and repairing damage to the works [8.0]</p> <p>4.2.11 Rectification of defects [21.2]</p> <p>4.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p style="text-align: right;">Carried Forward</p>	R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	R	

	Brought Forward	R
4.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums		
4.2.14 Appointment of a subcontractor [14.0; 15.0]		
4.2.15 Termination of nominated n/s subcontract agreement [27.2.8]		
4.2.16 Work by (a) direct contractor(s) [16.0]		
4.2.17 Access by other or previous contractors to remedy defective work		
4.2.18 Removal from site of any person employed on the works		
4.2.19 Removal from site of any person not engaged on or connected with the works		
4.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]		
5. Electrical Engineer		
5.1 Duties:		
The electrical engineer is responsible for the all aspects of mechanical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions		
5.2 Contract instructions [17.0]:		
5.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement		
5.2.2 Alteration to design, standards or quality of the works provided that such contract instructions shall not substantially change the scope of works		
5.2.3 The site [13.2.4]		
5.2.4 Compliance with the law, regulations and bylaws [2.1]		
5.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works		
5.2.6 Opening up of work for inspection, removal or re-execution		
5.2.7 Removal or re-execution of work		
5.2.8 Removal or substitution of any materials and goods		
	Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

	Brought Forward	R
5.2.9 Protection of the works		
5.2.10 Making good physical loss and repairing damage to the works [8.0]		
5.2.11 Rectification of defects [21.2]		
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5.2.19 Removal from site of any person not engaged on or connected with the works		
5.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]		
6. Wet Services Engineer		
6.1 Duties:		
The wet services engineer is responsible for the all aspects of wet services engineering design and quality inspection of the works		
6.2 Contract instructions [17.0]:		
6.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement		
6.2.2 Alteration to design, standards or quality of the works provided that such contract instructions shall not substantially change the scope of works		
6.2.3 The site [13.2.4]		
6.2.4 Compliance with the law, regulations and bylaws [2.1]		
	Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

	Brought Forward	
6.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works		R
6.2.6 Opening up of work for inspection, removal or re-execution		
6.2.7 Removal or re-execution of work		
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6.2.19 Removal from site of any person not engaged on or connected with the works		
6.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]		
7. Fire consultant		
7.1 Duties:		
The fire is responsible for the all aspects of mechanical engineering design and quality inspection of the works and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity		
	Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

<p style="text-align: right;">Brought Forward</p> <p>surveying and cost control functions</p> <p>7.2 Contract instructions [17.0]:</p> <p>7.2.1 Rectification of discrepancies, errors in descriptions or omissions in contract documents other than this agreement</p> <p>7.2.2 Alteration to design, standards or quality of the works provided that such contract instructions shall not substantially change the scope of works</p> <p>7.2.3 The site [13.2.4]</p> <p>7.2.4 Compliance with the law, regulations and bylaws [2.1]</p> <p>7.2.5 Provision and testing of samples of materials and goods, of finishes and assemblies of elements of the works</p> <p>7.2.6 Opening up of work for inspection, removal or re-execution</p> <p>7.2.7 Removal or re-execution of work</p> <p>7.2.8 Removal or substitution of any materials and goods</p> <p>7.2.9 Protection of the works</p> <p>7.2.10 Making good physical loss and repairing damage to the works [8.0]</p> <p>7.2.11 Rectification of defects [21.2]</p> <p>7.2.12 A list for practical completion specifying outstanding or defective work to be rectified to achieve practical completion and a list for completion and a list for final completion specifying outstanding or defective work to be rectified to achieve final completion</p> <p>7.2.13 Expenditure of budgetary allowances, prime cost amounts and provisional sums</p> <p>7.2.14 Appointment of a subcontractor [14.0; 15.0]</p> <p>7.2.15 Termination of nominated n/s subcontract agreement [27.2.8]</p> <p>7.2.16 Work by (a) direct contractor(s) [16.0]</p> <p>7.2.17 Access by other or previous contractors to remedy defective work</p> <p>7.2.18 Removal from site of any person employed on the works</p> <p>7.2.19 Removal from site of any person not engaged on or connected with the works</p> <p style="text-align: right;">Carried Forward</p>	R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	R	

	Brought Forward	R	
	7.2.20 On termination, protection of the works, removal of construction equipment and surplus materials and goods [29.0]		
	8. Health and Safety Consultant		
	8.1 Duties:		
	The health and safety consultant is responsible for all aspects of health and safety of the works. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the works:		
	8.1.1 Act as the employer's agent in terms of Construction regulations issued interms of Occupational Health and Safety Act, 1993		
	8.1.2 Prepare and update the health and safety specification for the works		
	8.1.3 Agree with the contractor the health and safety plan for the works		
	8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the Act and Regulations		
	8.1.5 Stop the execution of the works where the agreed specification or plan is not adhered to		
6	F:..... V:..... T:.....		Item
	9. Client Representative		
	9.1 Duties:		
	The clause shall be deemed to be added to this agreement		
	The clients site representative is responsible to report to the Client and Principal agent on inter alia;		
	9.1.1 Compliance with national building regulations		
	9.1.2 Compliance with all relevant construction regulations		
	9.1.3 Construction and quality compliance		
7	F:..... V:..... T:.....		Item
	Clause 7.0 - Design responsibility		
8	F:..... V:..... T:.....		Item
	Carried Forward	R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

	Brought Forward	R															
	Insurance and Security (A8-A11)																
	Clause 8.0 - Work risk																
9	F:..... V:..... T:.....	Item															
	Clause 9.0 - Indemnities																
10	F:..... V:..... T:.....	Item															
	Clause 10.0 - Insurances																
11	F:..... V:..... T:.....	Item															
	Clause 11.0 - Security																
	Clause 11 (11.1 to 11.2) shall be deemed to replaced by the following:																
	11.1 The security required shall be as described in the bid document and shall be in the form of cash, certified cheque or bank guarantee from a banking institution registered in terms of the Banks Act 1990 (Act No (4 of 1990) or from an insurer registered in terms of the insurance Act 1943 (Act No 27 of 1943)																
	11.2 Guarantees will be required as follows																
	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">CATEGORY</th> <th style="text-align: left;">PROJECT VALUE</th> <th style="text-align: left;">GUARANTEE</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>< R500 000</td> <td>2.5%</td> </tr> <tr> <td>B</td> <td>R500 0001 - R1 000 000</td> <td>5%</td> </tr> <tr> <td>C</td> <td>R1 000 0001 - R2 000 000</td> <td>7.5%</td> </tr> <tr> <td>D</td> <td>> R2 000 000</td> <td>10%</td> </tr> </tbody> </table>	CATEGORY	PROJECT VALUE	GUARANTEE	A	< R500 000	2.5%	B	R500 0001 - R1 000 000	5%	C	R1 000 0001 - R2 000 000	7.5%	D	> R2 000 000	10%	
CATEGORY	PROJECT VALUE	GUARANTEE															
A	< R500 000	2.5%															
B	R500 0001 - R1 000 000	5%															
C	R1 000 0001 - R2 000 000	7.5%															
D	> R2 000 000	10%															
	11.3 The Employer's entitlement to recover expense and loss in terms of 27.0 shall take precedence over the reducing of the surety or proportions thereof																
	11.4 The parties shall expressly agree that neither the Employer nor the Contractor shall be entitled to cede the rights to the surety to any third party and the Employer shall apply the security strictly according to the provisions of this agreement																
	11.5 Such selected security shall be provided within fourteen (14) calender days of written acceptance of the contractor's tender																
	The employer reserves the right to reject a construction guarantee if, in the opinion of the employer, the guarantor is not accredited.																
	Carried Forward	R															
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries																

<p style="text-align: right;">Brought Forward</p> <p>Clause (11.4 to 11.5)</p> <p>Security payment</p> <p>The employer shall not provide a guarantee for payment to the Contractor Clause (11.10)</p> <p>This clause shall be deemed to be replaced by the following;</p> <p>The contractor shall wave his lien at signing the contract</p> <p>The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]</p> <p>Execution (A12 - A17)</p> <p>Clause 12.0 - duties of the parties</p> <p>Clause 12.1.1 - Amended clause 11.4 apply</p> <p>Provision of clauses 12.1.2 to 12.1.6 and 12.2.18</p> <p>Refer to the contract data, the Preliminaries document and "Section B: Preliminaries" of this Bill No.1 with reference to the provisions of clauses 12.1.2 to 12.1.6 and 12.2.18 of the JBCC Principal Building Agreement</p> <p>Office accommodation</p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> <p>Notice board</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor, and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]</p>	R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	R	

	Brought Forward	R	
	<p>Access to water, sewer, stormwater and electricity connections</p> <p>The employer is not in a position to identify access to water, sewer, stormwater and electricity connections to the site as may be suitable for the execution of the works. The contractor is to allow what he considers to be required and is to qualify his tender in detail in this regard, failing which it shall be taken that the contractor has allowed what will be required for the execution of the works. in such case no claims for additional cos or loss shall be entertained [12.1.5]</p> <p>Statutory and other notices</p> <p>The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard [12.1.6]</p> <p>It is however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>Clause 13.0 - Setting out</p>		
12	<p>F:..... V:..... T:.....</p> <p>Clause 14.0 - Nominated subcontractors</p> <p>Clause 14.1.4 Reference should read "[17.1.4]" Clause 14.6 Reference should read "[17.1.15; 27.1.8]" Clause 14.7.2 Reference should read "[27.1.8]" Clause 14.7.3 Reference should read "[27.2.8]"</p>		Item
13	<p>F:..... V:..... T:.....</p> <p>Clause 15.0 - Selected subcontractors</p> <p>Clause 15.2 Reference should read "[17.1.4]" Clause 15.7.2 Reference should read "[27.1.8]" Clause 15.7.3 Reference should read "[27.2.8]"</p>		Item
14	<p>F:..... V:..... T:.....</p>		Item
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R
	<p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <ol style="list-style-type: none"> 1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials 2. Allow the use of personnel welfare facilities, where provided 3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation 4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1] <p>Clause 16.1.3 Reference should read "[26.5]</p>	
15	<p>F:..... V:..... T:.....</p> <p>Clause 17.0 - Contract instructions</p> <p>Site instructions</p> <p>Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor</p> <p>Errata by JBCC</p> <p>Clause 17.1.3 Reference should read "[13.2.4]"</p>	Item
16	<p>F:..... V:..... T:.....</p> <p><u>Completion (A18-A24)</u></p> <p>Clause 18.0 - Interim completion</p>	Item
17	<p>F:..... V:..... T:.....</p> <p>Clause 19.0 - Practical completion</p>	Item
18	<p>F:..... V:..... T:.....</p> <p>Clause 20.0 - Sectional completion</p>	Item
	Carried Forward	R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	

	Brought Forward	R
	Errata by JBCC	
	Clause 20.2.2 Reference should read "[21.6.2]"	
19	F:..... V:..... T:.....	Item
	Clause 21.0 - Defects liability period and final completion	
	Errata by JBCC	
	Clause 21.1 Delete the word "final" in the second last line Reference should read "[21.6.1]"	
	Clause 21.9 Reference should read "[21.4 ; 21.6.1]"	
20	F:..... V:..... T:.....	Item
	Clause 22.0 - Latent defects liability period	
21	F:..... V:..... T:.....	Item
	Clause 23.0 - Revision of date of practical completion	
	Substitution of materials and goods	
	The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8, 23.1 & 2]	
	Errata by JBCC	
	Clause 23.2 Reference should read "[26.7]"	
	Clause 23.2.1 Reference should read "[12.1.7]"	
22	F:..... V:..... T:.....	Item
	Clause 24.0 - Penalty for late or non-completion	
23	F:..... V:..... T:.....	Item
	<u>Payment (A25 - A27)</u>	
	Clause 25.0 - Payment	
	Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries	

	Brought Forward	
<p>Clause 25.0 shall be deemed to be amended and extended as follows;</p> <p>25.16 Retention Fund</p> <p>25.16.1 The Employer shall withhold from the Contractor ten per cent (10%), with a maximum of five per cent (5%) of all payments made before the issuing of the certificate of practical completion as a retention fund. No interest is to be paid to the Contractor on the retention fund. The retention fund shall be held by the Employer as a guarantee to the Employer for the completion of the contract.</p> <p>25.16.2 Two fifths (2/5) of the retention fund shall be paid to the Contractor on the issuing of the certificate of practical completion, and two fifths (2/5) on the issuing of the certificate of final completion and the remainder on the issuing of final account</p> <p>Notwithstanding this or any other clause, materials and goods stored off site shall not be included in the amount authorised for payment unless specifically authorised by the Employer.</p> <p>Materials and goods prematurely on site</p> <p>Materials and goods brought onto the site prematurely shall not be authorised for payment [25.3.2]</p> <p>Materials and goods stored off site</p> <p>This clause shall be deemed to be amended as follows:</p> <p>Materials and goods stored off site shall not be authorised for payment unless procedures in terms of ownership, payment, storage and insurance of such goods has been confirmed to and authorised as such by the Principal Agent [25.3.2]</p> <p>Contract Price Adjustment</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate Value Added Tax, shall be adjustable in accordance with CPAP indices (PO151) base month being month prior to closing date of bid [25.3.4]</p>	R	
	Carried Forward	R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R
	<p>Prices submitted</p> <p>Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing (25.3.5)</p> <p>Errata by JBCC</p> <p>Clause 25.2 The word: "Final" in bold in the second line Clause 25.10.3 Reference should read "[25.13 ; 26.10]" New clause 25.12.4 Add the words : "Terminate the agreement [29.14.7] where the listed options [25.12.1 -3] have failed"</p>	
24	<p>F:..... V:..... T:.....</p> <p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>Tenant installations/users requirements delayed</p> <p>There is possibility that certain works related to tenant installations/users requirements may have to be delayed and may consequently not be executed prior to practical completion</p> <p>The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission</p> <p>Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount of for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works</p>	Item
	Carried Forward	R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	

		Brought Forward	R
	<p>Cost of Claims</p> <p>All costs incurred by the contractor in the preparation of claims shall be borne by the contractor. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this agreement [30.6,7] from making a determination on costs</p> <p>The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation in order to assist the principal agent in adjudicating the claim [26.6]</p> <p>Errata by JBCC</p> <p>Clause 26.4.2 Omit the entire clause and renumber thereafter New clause 26.4.3 "Other proven or unavoidable costs"</p> <p>Clause 27.0 - Recovery of expense and/or loss</p>		
25	<p>F:..... V:..... T:.....</p> <p><u>Suspension and termination (A28 - A29)</u></p> <p>Clause 28.0 - Suspension by the contractor</p> <p>Errata by JBCC</p> <p>New Clause 28.1.5 and renumber thereafter "Or where an agent has failed to act in terms of this agreement [6.4] Clause 28.2 Replace the word "defect" with "default" in the first line</p>		Item
26	<p>F:..... V:..... T:.....</p> <p>Clause 29.0 - Termination</p> <p>Errata by JBCC</p> <p>Clause 29.1.2 Delete the words: "within the period stated [CD]"</p> <p>Clause 29.14.1 Change as follows: "Provide or maintain a guarantee for payment.....[11.4-5]" Clause 29.14.2 Reference should read "[12.1.7]" New clause 29.14.2 "Or where an agent has failed to act in terms of this agreement [6.4]</p>		Item
27	<p>F:..... V:..... T:.....</p>		Item
		Carried Forward	R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

28	Brought Forward	R	
	<p>Dispute resolution</p> <p>Clause 30.0 - Dispute resolution</p>		
	<p>F:..... V:..... T:.....</p>	Item	
	<p>AGREEMENT</p>		
	<p>The required Information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties following the issue of letter of appointment by the Employer and compliance thereto by the contractor</p>		
	<p>CONTRACT DATA</p>		
	<p>Before submission of his tender the contractor is to note and allow in his tender for the items and requirements as set out here after. The contract data shall be inserted in the agreement for signature of the agreement by the parties</p>		
	<p><u>(A) TENDER INFORMATION</u></p>		
	<p>A1 Project Name:</p>		
	<p>Refurbishment and Maintenance of Kalafong Station for PRASA</p>		
	<p>A2 Works Description</p>		
	<p>Refurbishment and Maintenance of Kalafong Station</p>		
	<p>A3 Site description</p>		
	<p>3.1 Portion: Kalafong Train Station - Atteridgeville</p>		
	<p>3.2 Local Authority: City of Tshwane</p>		
	<p>3.3 Street Address: Kalafong Station, Atteridgeville</p>		
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

<p>A4 Employer</p> <p>4.1 Name: PRASA RAIL</p> <p>4.2 Business: State Owned Company</p> <p>4.3 Business Reg No: N/A Municipality VAT No:</p> <p>4.4 Contact person: Tel: Email:</p> <p>4.5 Registered street address:</p> <p>4.6 Postal address:</p> <p>4.7 Tel. No: Fax No: website:</p> <p>A5 - A13 Principal Agent:</p> <p>5.1 Name:</p> <p>5.2 Business: A</p> <p>5.3 Business Reg No: Business VAT No:</p> <p>5.4 Contact person: Tel: Email:</p> <p>5.5 Registered street address:</p> <p>5.6 Postal address:</p> <p>5.7 Tel. No:</p>	<p>Brought Forward</p>	<p>R</p>
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	<p>Carried Forward</p>	<p>R</p>

<p style="text-align: right;">Brought Forward</p> <p>(B) CONTRACT DATA</p> <p>2.0 Law regulations and notices</p> <p>2.1/25.15 Law of the Country applicable: South Africa</p> <p>5.0 Contract documents</p> <p>5.1 Signed contract document held by - Employer</p> <p>5.5 Number of copies of documents issued free to the contractor - three (3) copies</p> <p>Priced Documents</p> <p>Lump sum priced document - No</p> <p>Priced Bill of Quantities (BoQ) - Yes</p> <p>System/Method of measurement - Latest Edition of Standard System of Measuring Building Work published by ASAQS.</p> <p>Contract Documents Comprising</p> <p>JBCC Principal Building Agreement Ed 6.2 May 2018 - A</p> <p>JBCC PBA Contract Ed 6.2 May 2018 - B</p> <p>Contract drawings</p> <p>Will be listed in detail at signing of contract. The drawings attached to these Bills are for tender reference purposes only</p> <p>6.0 Employers Agent</p> <p>6.3 Agents in project has no interest other than professional services - N/A</p> <p>10.0 Insurances</p> <p>By the Employer - No By the Contractor - Yes</p>	R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	R	

	Brought Forward	R
Contract works insurance (CWI) (including material and goods temporary works - Contract sum		
Allowances for Professional fees and escalation of the insured value at 20% of contract sum		
Free issue material at new replacement value - Not Applicable		
Employer owned surrounding property - Not Applicable		
Public Liability insurance - R5,000,000.00 each and every claim		
Supplementary insurance including CWI extensions - Yes SASRIA		
Removal of lateral support insurance - Not Applicable		
policy deductables		
Works free issue - 0.1% of insured amount		
Supplementary insurance 0.1% of the insured amount		
11.0 Security		
11.1.1-5 The contractor shall provide a guarantee for construction to the Employer - Yes (at 10%)		
12.0 Duties of the parties/Employer/Site		
9.2.7 Alteration and additions to existing premises - Yes		
12.1.2 Premises occupied - No		
12.1.3 Relevant natural featured to be retained relocated / removed - No		
12.1.4 Areas the contractor may not occupy - No		
12.1.5 Utilities connection - Location: As shown on drawings		
12.1.6 Statutory and/or other notices to be complied with by the contractor before possession of site can be given. Compliance with all requirements stipulated in bid documentation		
12.1.7 Possession of the site - intended date: within 7 calender days of acceptance of tender by the employer and compliance thereto by the contractor		
12.1.12 Description of free issue by the employer - Not Applicable		
	Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

<p style="text-align: right;">Brought Forward</p> <p>14.0 Nominated subcontractors</p> <p>All subcontractors will be direct subcontractors to the main contractor</p> <p>16.0 Direct subcontractors</p> <p>Employer reserve a right to use direct contractors which will be listed as such at signing of contract.</p> <p>Practical completion date:00/00/20....</p> <p>Penalty for late completion</p> <p>19.0 Practical completion of the works as a whole - within 4months from the date of handover, penalty per calender day R1,760.00 (excl. VAT)</p> <p>19.0 Practical completion</p> <p>19.1.1 Items that do not have to be completed to achieve practical completion - N/A</p> <p>19.1.2 Criteria to achieve practical completion - as per condition of contract</p> <p>25.0 Payment</p> <p>25.1 Currency: South African Rand</p> <p>25.2 Issue of regular payment certificates on: 31st day (otherwise last day of the month) of each month</p> <p>25.3.2 Materials and goods off site - paid subject to bid documentation conditions</p> <p>25.3.4 / 26.9.5 Contract Price Adjustment Provisions (CPAP)</p> <p>Contract value adjustment: The contract value is fixed, therefore shall not be adjusted.</p>	<p style="text-align: center;">R</p>	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p>	

	Brought Forward	R
<p><u>(D) TENDERERS SELECTION</u></p>		
<p>11.0 Securities</p>		
<p>Guarantee for construction</p>		
<p>Refer to clause 11.1 to 11.5 for security requirements which will apply to this contract</p>		
<p>Guarantee for Advance Payment - Not Applicable to this contract</p>		
<p>Guarantee for Payment - 10% of the contract value</p>		
<p>19.0 Contractors holiday period during the construction period</p>		
<p>One month - 15 December to 15 January allowed in the contract period of 8months</p>		
<p>26.0 Payment / adjustment of preliminaries</p>		
<p>Payment of preliminaries Option B - Yes</p>		
<p>Adjustment of preliminaries (26.9.4) Option A - Yes</p>		
<p>Notes:</p>		
<p>The tender shall remain in full legal force for (120) one hundred and twenty calender days</p>		
<p>TENDER SUM COMPILATION</p>		
<p>Refer to Bid Documentation - Calculation of bid sum</p>		
<p>TENDERER'S DETAILS</p>		
<p>Refer to Bid Documentation - Contract Data</p>		
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>	Carried Forward	R

		Brought Forward	R
	<u>SECTION B: PRELIMINARIES</u>		
	<u>Interpretation (B1)</u>		
	Definitions		
29	F:..... V:..... T:.....		Item
	<u>Documents (B2)</u>		
	Clause 2.1 - Checking of documents		
30	F:..... V:..... T:.....		Item
	Clause 2.2 - Provisional bills of quantities		
31	F:..... V:..... T:.....		Item
	Clause 2.3 - Availability of construction documentation		
	Construction information completed		
	Budget allowances and provisional sums		
	The budgetary allowances and/or provisional sums allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period		
32	F:..... V:..... T:.....		Item
	<u>Previous work and adjoining properties (B3)</u>		
	Clause 3.1 - Previous work - dimensional accuracy		
33	F:..... V:..... T:.....		Item
	Clause 3.2 - Previous work - defects		
34	F:..... V:..... T:.....		Item
	Clause 3.3 - Inspection of adjoining properties		
35	F:..... V:..... T:.....		Item
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

			Brought Forward
	<u>Samples, shop drawings and manufacturer's instructions (B4)</u>		R
	Clause 4.1 - Samples of materials		
36	F:..... V:..... T:.....	Item	
	Clause 4.2 - Workmanship samples		
37	F:..... V:..... T:.....	Item	
	Clause 4.3 - Shop drawings		
38	F:..... V:..... T:.....	Item	
	Clause 4.4 - Compliance with manufacturer's instructions		
39	F:..... V:..... T:.....	Item	
	<u>Deposits and fees (B5)</u>		
	Clause 5.1 - Deposits and fees		
40	F:..... V:..... T:.....	Item	
	<u>Temporary services (B6)</u>		
	Clause 6.1 - Water		
	Option A (6.1.1) applicable		
41	F:..... V:..... T:.....	Item	
	Clause 6.2 - Electricity		
	Option A (6.2.1) applicable		
42	F:..... V:..... T:.....	Item	
	Clause 6.3 - Ablution and welfare facilities		
	Option A (6.3.1) applicable		
43	F:..... V:..... T:.....	Item	
	Clause 6.4 - Communication facilities		
			Carried Forward
			R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

		Brought Forward	R
44	F:..... V:..... T:..... <u>Prime cost amounts (B7)</u> Clause 7.1 - Responsibility for prime cost amounts		Item
45	F:..... V:..... T:..... <u>Attendance on Subcontractors (B8)</u> Clause 8.1 - General attendance		Item
46	F:..... V:..... T:..... Clause 8.2 - Special attendance		Item
47	F:..... V:..... T:..... <u>General (B9)</u> Clause 9.1 - Protection of works		Item
48	F:..... V:..... T:..... Clause 9.2 - Protection/isolation of existing/sectionally occupied works		Item
49	F:..... V:..... T:..... Clause 9.3 - Security of the works		Item
50	F:..... V:..... T:..... Clause 9.4 - Notice before covering work		Item
51	F:..... V:..... T:..... Clause 9.5 - Disturbance		Item
52	F:..... V:..... T:..... Clause 9.6 - Environmental disturbance		Item
53	F:..... V:..... T:..... Clause 9.7 - Works cleaning and clearing		Item
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

		Brought Forward	R
54	F:..... V:..... T:..... Clause 9.8 - Vermin		Item
55	F:..... V:..... T:..... Clause 9.9 - Overhand work		Item
56	F:..... V:..... T:.....		Item
	<u>Preliminaries schedule (B10)</u>		
	Information for completion of the preliminaries schedule		
	The Preliminaries schedule contains all Pre-tender variables referred to in this document and must be completed in full and included in the tender documents		
	Spacing requiring information must be filled in, shown as 'not applicable' or deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the Preliminaries schedule. key cross reference clauses are italicised in [] brackets		
10.1	Provisional bills of quantities [2.2] The quantities are provisional: No		
10.2	Availability of construction information [2.3] Construction documentation is complete: Yes		
10.3	Previous work - dimensional accuracy [3.1] Not applicable		
10.4	Previous work - defects [3.2] Not Applicable		
10.5	Inspection of adjoining properties [3.3] Not Applicable		
10.6	Water [6.1] Option A (by contractor) Yes Option B (by employer - free of charge) No Option C (by employer - metered) No		
	Carried Forward		R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

	Brought Forward	R
<p>10.7 Electricity [6.2]</p> <p style="margin-left: 40px;">Option A (by contractor) Yes</p> <p style="margin-left: 40px;">Option B (by employer - free of charge) No</p> <p style="margin-left: 40px;">Option C (by employer - metered) No</p>		
<p>10.8 Ablution and welfare facilities [6.3]</p> <p style="margin-left: 40px;">Option A (by contractor) Yes</p> <p style="margin-left: 40px;">Option B (by employer - free of charge) No</p> <p style="margin-left: 40px;">Option C (by contractor - metered) No</p>		
<p>10.9 Communication facilities [6.4]</p> <p>Telephone / Cell phones on site - Yes</p> <p>Fax at office - Yes</p> <p>E-mail on site - Yes</p>		
<p>10.10 Protection of the works [9.1]</p> <p>Specific requirements - No</p>		
<p>10.11 Protection / isolation of existing/sectionally occupied works [9.2]</p> <p style="margin-left: 40px;">Protection / isolation is required - No</p>		
<p>10.12 Disturbance [9.5]</p> <p>Specific requirements</p> <p>All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever</p>		
Carried Forward		R
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

Brought Forward

R

10.13 Environmental Disturbance

Specific requirements

Controlling all forms of pollution

The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc

The contractor is to ensure that all roads which border the site and is used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works

Carried Forward

R

Section No. 1
PRELIMINARIES AND GENERAL
Bill No. 1
Preliminaries

Brought Forward

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SECTION C: SPECIFIC PRELIMINARIES

Warranties for materials and workmanship

Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract

The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so

The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor

57 F:..... V:..... T:.....

Item

Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer

58 F:..... V:..... T:.....

Item

Co-operation of the contractor for cost management

It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget

59 F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
PRELIMINARIES AND GENERAL
Bill No. 1
Preliminaries

	Brought Forward		R
	<p>Overloading</p> <p>The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense</p>		
60	<p>F:..... V:..... T:.....</p> <p>Propping of floors below</p> <p>The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor</p>	Item	
61	<p>F:..... V:..... T:.....</p> <p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p>	Item	
62	<p>F:..... V:..... T:.....</p> <p>Testing of windows for watertightness</p> <p>Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed and/or other approved means</p>	Item	
63	<p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R	
	<p>Broad Based Black Economic Empowerment (BBBEE)</p> <p>Tenders submitted will be elevated taking into account their empowering rating</p> <p>The employer will be monitoring the broad based black economic empowerment (BBBEE) status of the contractor throughout the execution of the works</p> <p>The contractor is to submit to the principal agent on an annual basis a schedule of spend, split into vendors engaged as subcontractors and suppliers indicating their BBBEE rating including proof of the said rating</p>		
64	<p>F:..... V:..... T:.....</p> <p>Advertising rights</p> <p>The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in the meeting of his obligations under this agreement</p>	Item	
65	<p>F:..... V:..... T:.....</p> <p>Confidentiality</p> <p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works</p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the employer</p>	Item	
66	<p>F:..... V:..... T:.....</p> <p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer</p> <p>The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media</p>	Item	
67	<p>F:..... V:..... T:.....</p>	Item	
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

			Brought Forward
	<p>Proprietary branded products The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturer's instruction after consultation with the manufacturer's authorised representative</p>	R	
68	<p>F:..... V:..... T:.....</p> <p>As build drawings The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.</p>	Item	
69	<p>F:..... V:..... T:.....</p> <p>Site instructions Site instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor</p>	Item	
70	<p>F:..... V:..... T:.....</p> <p>Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day</p>	Item	
71	<p>F:..... V:..... T:.....</p> <p>Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p>	Item	
72	<p>F:..... V:..... T:.....</p>	Item	
	Carried Forward	R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

Brought Forward

R

Non cession of monies

The contractor shall not cede nor assign his right or claims to any monies due or to become due under this contract

73

F:..... V:..... T:.....

Item

Occupational health and safety act - section 37(2)

The tenderers attention is drawn to be the fact that the Occupational Health and Safety Act (Act 85 of 1993) and Construction Regulations 2014 is in force. Copies of the Act are available from the Government Printing Works, 149 Bosman Street, Pretoria (Private Bag x85, Pretoria, 0001, Tel No. (012) 334 4500

Tenderers are expected to be fully acquainted with the requirements of the Act.

A proforma "Agreement in terms of the Occupational Health and Safety Act - Part C 1.4" is included in these bid documents. Tenderers are advised to study this pro-forma in order to make themselves fully conversant with the requirements and responsibilities of the Act and the Municipality.

Tenderers are to provide for the above-mentioned requirements and to allow for all cost implications regarding the above including risk assessment, safety plan and monitoring system for the duration of the contract.

74

F:..... V:..... T:.....

Item

Carried Forward

R

Section No. 1
PRELIMINARIES AND GENERAL
Bill No. 1
Preliminaries

	Brought Forward		R
	<p>Community employment and smme involvement The building and related projects of the Fetakgomo-Greater Tubatse Local Municipality shall be labour intensive and shall promote community employment in the execution of the contract resulting from this tender.</p> <p>Furthermore, it shall contribute to the development of SME's (Small and Medium Enterprises) especially from previously disadvantaged communities</p> <p>Local labour</p> <p>It is an explicit condition of this contract that only persons normally resident in the locality of the works (Local labour) may be employed on the contract. Provided however, that should adequate and appropriate labour not be available within the locality, other labour may be employed., subject to the approval of the Principal Agent and satisfactory proof being provided that every reasonable endeavour has been made, to employ labour from the immediate locality. The contractors shall identify the local community leaders, with the purpose of negotiating with them, regarding the utilisation of local labour in the construction process. In this regard, the Contractor shall furthermore give preference, where possible, to the employment of single heads of households, woman, youth and disabled persons. The Contractor shall in general, maximise the involvement of the local community</p>		
75	<p>F:..... V:..... T:.....</p> <p>Specific goal participation Tenderers should note that this project is subject to the maximum utilization of women, youth and disabled and preference will be given as such and also monitored during the construction stage. Details of the tenderers proposals in this regard is to be provided before commencement of the works and data forms to be completed by the contractor</p>	Item	
76	<p>F:..... V:..... T:.....</p> <p>Labour intensive working methods Tenderers should note that this project is subject to use of labour intensive construction methods, e.g excavations, filing, etc to be done by hand. Details of the tenderers proposals in this regard is to be provided before commencement of the work by the contractor for approval by the Principal Agent</p>	Item	
77	<p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries</p>		

	Brought Forward	R	
	Non accredited training Tenderers should note that non accredited training (i.e. on site training is to be provided during the construction period). Details of the tenderer's proposals in this regard is to be provided before commencement of the works by the contractor for approval by the Principal Agent		
78	F:..... V:..... T:.....	Item	
	<u>SECTION D: HEALTH AND SAFETY REQUIREMENTS FOR ALL TENDER BILL OF QUANTITIES</u>		
	OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 AND THE CONSTRUCTION REGULATION, 2014 (refer Section C3.6: H&S Requirements and Procedures)		
79	Prepare and compile H&S plan as per site specification Health and safety Specifications (Section C3, Scope of Work), OHS Act & Regulations		
	F:..... V:..... T:.....	Item	
80	Allow for the preparation and compilation of the site specific health and safety file, and a health and safety working file		
	F:..... V:..... T:.....	Item	
81	Changes and amendments as may be required for ongoing maintenance of health and safety file, and working file		
	F:..... V:..... T:.....	Item	
	PART B-OHS ACT COMPLIANCE-IMPLEMENTATION OF THE HEALTH AND SAFETY		
	Personal Protective Clothing & Equipment		
82	Foot protection (steel toe cap, gum boots, etc)		
	F:..... V:..... T:.....	Item	
83	Clothing (Overalls Depicting Contractors Company name/identification)		
	F:..... V:..... T:.....	Item	
	Carried Forward	R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

		Brought Forward	R
84	Glove (leather, PVC, Acid Resistant, etc) F:..... V:..... T:.....		Item
85	Head Protection: Hardhats, Colour Coded - Supervisory (Red) Labour (Green) First Aid (Blue) Sun Shields Etc) F:..... V:..... T:.....		Item
86	Ear protection (earplugs, earmuffs, etc) F:..... V:..... T:.....		Item
87	Eye Protection (Face Shield, Goggles, Spectacles, etc) F:..... V:..... T:.....		Item
88	Air (Dust Masks, etc) F:..... V:..... T:.....		Item
89	Visibility (luminous high visibility safety vests/ jackets/ bibs/ head gear, etc) F:..... V:..... T:.....		Item
90	Fall Risk/ Fall Protection/ Working at Heights This only required when work is 2m or more in height F:..... V:..... T:.....		Item
91	Harness(double lanyard, retractable, reach, etc) F:..... V:..... T:.....		Item
92	Fall Protection and Recovery Plan (and recovery gear) F:..... V:..... T:.....		Item
93	Portable ladders (A-frame, extendable, length, material, etc) F:..... V:..... T:.....		Item
		Carried Forward	R
Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries			

		Brought Forward	R
94	Barricading/ Hoarding (Supply, Install & Removal)		Item
95	Construction perimeter (fence, shade netting, corrugated iron, shutter board, Hard Barricade etc) F:..... V:..... T:.....		Item
96	Trench and manhole excavations		Item
97	Roads and roads reserves - Pre-warning (danger tape, orange "shark" netting, cones, delineators, temporary road signs, etc) F:..... V:..... T:.....		Item
	Health And Safety Control and Training		
98	Provide full time competent construction health and safety officer on site to assist in the control of all health and safety aspects on site (CR8(5)) F:..... V:..... T:.....		Item
99	Induction training (employees, visitors, sub-contractors, local residence/ home owners) F:..... V:..... T:.....		Item
100	Medical Examination		Item
101	Medical treatments F:..... V:..... T:.....		Item
102	Entry Medical Examination F:..... V:..... T:.....		Item
103	Periodical (if contract more than 12 months) Medical Examination F:..... V:..... T:.....		Item
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

		Brought Forward	R
104	Exit Medical Examination F:..... V:..... T:.....		Item
105	Signage, Information Display, Awareness		Item
106	Construction (firefighting. General information, prohibitory, mandatory, warning, hazchem, photo luminescent, etc) F:..... V:..... T:.....		Item
107	Roads (temporary, traffic control, associated with construction work within the road reserve, etc) F:..... V:..... T:.....		Item
108	Health and Safety information display board in site office (emergency evacuation flow diagram, emergency contact numbers, electrical, general, etc) F:..... V:..... T:.....		Item
109	Construction Vehicle, Mobile Plant and Roads		Item
110	Equipment (stop blocs, traffic flags) F:..... V:..... T:.....		Item
111	Rotating/ strobe lights for construction vehicle and mobile plant. F:..... V:..... T:.....		Item
112	Facilities (wash bay, fuel bay, service bay) F:..... V:..... T:.....		Item
113	Fire Fighting and Emergencies		Item
114	Fire fighting equipment (fire extinguishers - dry powder, for all construction vehicle, site vehicle, site office and onsite) F:..... V:..... T:.....		Item
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

		Brought Forward	R
115	Alarm signaling device (hooter/ blow horn/ siren/ bell/ whistle etc) F:..... V:..... T:.....		Item
116	Emergencies		Item
117	First aid treatment box (and refills, stretcher, medical waste drop box, etc) F:..... V:..... T:.....		Item
118	Substance abuse testing (breathalyser, etc) F:..... V:..... T:.....		Item
119	Facilities		Item
120	Ablution (chemical/ mobile) F:..... V:..... T:.....		Item
121	Change house and lockers F:..... V:..... T:.....		Item
122	Shelter eating facility (tables, chairs, potable water) F:..... V:..... T:.....		Item
123	Site office/ space for Health& Safety personnel (table, chair) F:..... V:..... T:.....		Item
124	Security/ access control point (gate, gate keeper, guard house, etc) F:..... V:..... T:.....		Item
125	HCS storage facilities (bund walls, cage, etc) F:..... V:..... T:.....		Item
126	HIV AIDS AWARENESS		Item
		Carried Forward	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

		Brought Forward	
127	Compliance with the requirements of the HIV AND AIDS specification F:..... V:..... T:.....		R
128	F:..... V:..... T:.....		Item
129	PART C - OHS ACT COMPLIANCE: IMPLEMENTATION OF THE HEALTH AND SAFETY COVID-19: Compliance Management		Item
130	COVID-19 Related signage and posters		Item
131	F:..... V:..... T:.....		Item
132	2 x 3ply cloth masks		Item
133	F:..... V:..... T:.....		Item
134	Hand sanitizers with 70% alcohol content		Item
135	F:..... V:..... T:.....		Item
136	Decontamination agents / surface sanitizers		Item
137	F:..... V:..... T:.....		Item
138	Surgical Gloves (for security and cleaning team)		Item
139	F:..... V:..... T:.....		Item
140	Non-contact thermometers		Item
141	F:..... V:..... T:.....		Item
	SUMMARY OF CATEGORIES Category : Fixed R..... Category : Value R..... Category : Time R.....		
		Carried to Final Summary	R
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries		

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS</u></p> <p>PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)</p> <p>SUPPLEMENTARY PREAMBLES:</p> <p>The contractor shall, before commencing work, obtain all authorisation for carrying out the work by whatever means including the use of pneumatic equipment or blasting, give necessary notices and pay all charges and fees in connection therewith. He shall also comply with all regulations pertaining to rodent extermination and shall obtain the requisite Rodent Extermination Clearance Certificate and pay all necessary fees. All the above mentioned charges and fees shall be paid by the contractor and included in his prices.</p> <p>All tenderer will be deemed to have visited the site prior to submitting their tender to determine the nature and extent of the alteration and demolition work and the value of the materials to be recovered.</p> <p>No claim for a variation in the contract sum or the credit allowance for recoverable materials in respect of alteration / demolition items will be considered.</p> <p>All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.</p> <p>In taking down and removing existing work the utmost care must be taken to avoid any structural or other damage to the remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration/demolition work.</p> <p>The Contractor will be held solely responsible for the safety and stability of the buildings for the whole period of the contract and must make good any damage at his own expense.</p> <p>The Contractor shall provide and afterwards remove</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 DEMOLITIONS & ALTERATIONS WORK Bill No. 1 Alterations Work</p>			R

Brought Forward

all necessary temporary tarpaulins, barricades, screens, fencing, temporary waterproofing, dust proofing, etc. required to isolate any sections of new or existing buildings for purposes of excluding users of the remainder of the building or any unauthorised persons all to the satisfaction of the Representative/Agent and remove when directed.

The Contractor shall cover up and protect from injury all work not removed and shall make good at his own expense any damage that may occur. Existing services must be maintained at all times to the existing buildings. If it is found necessary to disconnect any service than suitable temporary or alternate services must be provided to the existing buildings.

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

The Contractor shall take all precautions to protect the existing buildings, paving and gardens from damage during the course of the contract and on completion he shall clear away and make good all damage at his own expense.

Building up of existing openings where given in number shall be deemed to include preparing existing surfaces all round, brickwork properly toothed and bonded to existing and shot pinned to concrete, wedging up and making good finishes on both sides to match existing.

Taking down existing walls is to include for dead shoring and propping under existing concrete slabs, beams, roof timbers, etc., for removing doors, windows, skirtings, curtain tracks, pelmets, cornices, etc. fixed to same and for making good to walls , floors, ceilings, etc. as described.

Removal of doors, windows, fittings, etc., is to include for their removal complete with frames, ironmongery, glass, quadrants, architraves, skirtings, burglar bars and all accessories to walls, reveals, around openings, for cutting out cills, etc., for hacking up flooring at openings and for making good.

Any water supply or other piping, etc. that may be encountered and found necessary to disconnect or cut are to be effectually stopped off and any new

Carried Forward

Section No. 2
DEMOLITIONS & ALTERATIONS WORK
Bill No. 1
Alterations Work

R

R

Brought Forward				R
connections that may be necessary shall be made with the proper fittings to the satisfaction of the Representative/Agent.				
Where sanitary fittings, geysers, etc are to be removed the Contractor shall allow for removing all exposed waste or water supply pipes to the nearest suitable junction or connection and stopping off, as well as for making good plaster, screeds, etc.				
The Contractor shall remove from the site all material, rubble, debris, rubbish, etc. resulting from the alterations / demolitions.				
OLD MATERIALS TO BE CARTED AWAY : Old materials from alterations except where described to be re-used or handed over, as well as all rubbish, etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.				
<u>TEMPORARY BARRIERS, SCREENS, ETC</u>				
<u>Temporary barriers, screens, etc including removal</u>				
1 Screen barrier 1500mm including all necessary supports - corners, ends, etc	m	80		
<u>REMOVAL OF EXISTING WORK</u>				
<u>Breaking down, removing brickwork etc and making good the wall with plaster & matching paint after breaking</u>				
2 One brick wall.	m2	7		
<u>Sundries roof support</u>				
3 Allow support to existing roof while breaking the walls using timber posts.			Item	
<u>Taking down and removing roofs, panelling, ceilings, etc.</u>				
4 Pitched IBR iron roof 10,000 x 5000 exceeding 2000mm high but not exceeding 2500mm high overall including roof covering, steel trusses, ceiling and cornices, eaves soffit covering, fascias, barge boards, gutter and rainwater pipes	m2	600		
Carried Forward				R
Section No. 2 DEMOLITIONS & ALTERATIONS WORK Bill No. 1 Alterations Work				

Brought Forward		R
<p><u>Taking out and removing doors, windows, etc. including thresholds, sills, etc. and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)</u></p>		
5	Steel security single door and steel frame exceeding 2,5m2 from one brick wall and put aside the security door for reuse.	No 2
6	Supply and install security door frame for a single door complete with heavy duty hinges to the frame and reinstate security door to position.	No 1
<p><u>REINSTATE DAMAGED ROOF COVERING</u></p>		
<p><u>Reinstall roof covering to position including all necessary accessories.</u></p>		
7	IBR roof covering sheet.	m2 3
<p><u>Taking out doors, door frames, windows, etc from brickwork to be demolished</u></p>		
8	Timber single door and steel frame not exceeding 2,5m2	No 1
<p><u>REMOVAL OF RUBBLE OFF SITE</u></p>		
9	Loading and removal of all rubble using 1Tonne truck, taking away to a dumping site within 50km from site.	Load 1
<p>Carried Forward to Summary of Section No. 2</p>		
<p>Section No. 2 DEMOLITIONS & ALTERATIONS WORK Bill No. 1 Alterations Work</p>		
		R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL No. 2</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>DEMOLITION TO EXISTING WORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>View Site</u>			
	Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	<u>Explosives</u>			
	No explosives whatsoever may be used for demolition purposes unless otherwise stated			
	<u>Break up and removing mass concrete</u>			
1	150mm thick surface bed	m2	352	
	<u>Breaking down, removing brickwork etc</u>			
2	One brick wall	m2	312	
	<u>Dismantle steel members and removing steel work etc</u>			
3	Steel members in various shapes and sizes.	m	376	
	<u>REMOVAL OF RUBBLE OFF SITE</u>			
4	Loading and removal of all rubble using 1Tonne truck, taking away to a dumping site within 50km from site.	Load	1	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 DEMOLITIONS & ALTERATIONS WORK Bill No. 2 Demolition Work			

Bill No	<u>SECTION SUMMARY - DEMOLITIONS & ALTERATIONS WORK</u>	Page No	Amount
1	Alterations Work	52	
2	Demolition Work	53	
	Carried to Final Summary		R
	Section No. 2 DEMOLITIONS & ALTERATIONS WORK		

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL No. 1</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>For preambles see "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p> <p>Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> <p><u>REINFORCED CONCRETE</u></p>			
	Carried Forward		R	
	<p>Section No. 3 REFURBISHMENT WORK Bill No. 1 Concrete, Formwork and Reinforcement</p>			

Brought Forward			R
<u>30MPa/19mm concrete</u>			
1	Slabs including beams and inverted beams	m3	12
<u>TEST BLOCKS</u>			
<u>Prescribed test blocks:</u>			
2	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	6
<u>CONCRETE SUNDRIES</u>			
<u>Curing surfaces of concrete with "Masterseal" curing compound applied at a rate of 1Litre/10m2</u>			
3	Horizontal top surfaces	m2	50
4	Vertical surfaces	m2	14
<u>Finishing top surfaces of concrete smooth with a wood float or steel trowel including non-slip brush finish</u>			
5	Slabs, etc.	m2	50
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Smooth formwork to sides</u>			
<u>Smooth formwork to soffit</u>			
6	Slabs including inverted beams.	m2	55
<u>MOVEMENT JOINTS, ETC</u>			
<u>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces</u>			
7	10mm joint exceeding 300mm high	m2	6
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>Mild steel reinforcement</u>			
8	8mm Diameter bars	t	0.80
Carried Forward			R
Section No. 3 REFURBISHMENT WORK Bill No. 1 Concrete, Formwork and Reinforcement			

	Brought Forward				
9	10mm Diameter bars	t	1.20		R
	<u>High tensile steel reinforcement to structural concrete work</u>				
10	12mm Diameter bars	t	0.80		
	<u>Fabric reinforcement mesh</u>				
11	Type Ref. 245 in concrete surface beds, slabs, etc	m2	63		
Carried Forward to Summary of Section No. 3					
Section No. 3					
REFURBISHMENT WORK					
Bill No. 1					
Concrete, Formwork and Reinforcement					
					R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 2</u>			
	<u>BUILDINGWORK</u>			
	<u>MASONRY</u>			
	PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)			
	SUPPLEMENTARY PREAMBLES			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>BRICKWORK</u>			
	<u>FOUNDATIONS (PROVISIONAL)</u>			
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class 1 mortar</u>			
1	One brick walls.	m2	3	
	<u>BRICKWORK IN SUB-STRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
2	NFP Class II mortar: One brick wall.	m2	4	
	<u>BRICKWORK IN SUPERSTRUCTURE</u>			
	<u>Brickwork of NFX bricks(14MPa nominal compressive strength) in class II mortar</u>			
3	One brick walls.	m2	58	
	<u>BRICKWORK SUNDRIES</u>			
	Carried Forward			R
	Section No. 3 REFURBISHMENT WORK Bill No. 2 Masonry			

Brought Forward			R
<u>Brickwork sundries</u>			
4	Cutting toothings and bonding new brickwork to existing.	m2	5
<u>Brickwork reinforcement</u>			
5	150mm Wide reinforcement built in horizontally.	m	40
<u>Galvanised wire ties etc</u>			
6	4mm diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork.	No	12
Carried Forward to Summary of Section No. 3			R
Section No. 3 REFURBISHMENT WORK Bill No. 2 Masonry			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 3</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South Africa Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Concrete Roof Waterproofing</u>			
1	Concrete roof waterproofing to roof slab.	m2	77	
	<u>Roof Waterproofing: to IBR roof sheeting</u>			
2	Metal roof waterproofing.	m2	55	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 REFURBISHMENT WORK Bill No. 3 Waterproofing			R

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL No. 4</u></p> <p><u>BUILDINGWORK</u></p> <p><u>ROOF COVERINGS, ETC.</u></p> <p>PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)</p> <p>NOTES:</p> <p>Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 124 for Haylett Formula purposes</p> <p>The Contractor is to submit to the consultant Architect a certificate signed by the Merchant, stating that the galvanized roof covering supplied complies with the required thickness specified All holes through profiled metal sheeting are to be drilled</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>Roof Waterproofing</u></p>			
1	<p>Making good roof sheeting by screwing and sealing of loose or missing screws/nails. Sealing using roof waterproofing.</p> <p><u>0,58mm IBR profile Z275 spelter galvanised steel troughed sheeting with in single lengths fixed to timber/steel purlins or rails and 0,58mm galvanised sheet steel accessories</u></p>	m2	5	
2	Roof covering with pitch not exceeding 50 degrees	m2	47	
3	Ridge capping 462mm girth	m	17	
	Carried Forward to Summary of Section No. 3			R
	<p>Section No. 3 REFURBISHMENT WORK Bill No. 4 Roof covering</p>			

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL No. 5</u></p> <p><u>BUILDING WORKS</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)</p> <p><u>NOTES:</u></p> <p>Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 124 for Haylett Formula purposes</p> <p><u>Joinery:</u></p> <p>Description of frames shall be deemed to include frames, transomes, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p><u>Fixing:</u></p> <p>All items to be plugged to brick/concrete walls unless stated otherwise.</p> <p>Items described as nailed shall deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Decorative laminate finish:</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.</p>			
<p>Carried Forward</p>		R	
<p>Section No. 3 REFURBISHMENT WORK Bill No. 5 Carpentry and Joinery</p>			

Brought Forward

R

Panelling:

The description of panelling shall be deemed to include all components, assembling, housing, notching, glueing, blocking, screwing with countersunk screws, cleats, edge strips, routing lines, skirting, cornices, metalwork, duco spray painting, sealant, staining, paint or varnish finishes, etc.

General:

The references given in the descriptions are to the respective types of fittings.

The fittings have been measured as complete units i.e the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, screwing with countersunk screws, edge strips, expansion joints, insulation, decorative plastic finish, glass, ironmongery, upholstered cushions, metalwork, duco spray painting, sealant, staining, paint or varnish finishes, etc.

DOORS:

SOLID FLUSH DOORS

Solid flush door with 3,2mm hardboard covering on both sides hung to steel frames

1	44mm x 800 x 2032mm panel single door on steel door frame.	No	5
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Solid doors hung or similar approved doors to steel frames

2	44mm Framed batten door 900 x 2032mm high of 44 x 100mm top rail and stiles 44 x 100mm middle ledge and braces and 44 x 100mm bottom rail filled in with 70mm V- jointed one side boarding and covered on other side with 3,2mm plywood with veneer to match door let into and including rebates all round	No	1
---	--	----	---

SOLID DOORS

Carried Forward

R

Section No. 3
REFURBISHMENT WORK
Bill No. 5
Carpentry and Joinery

Brought Forward		R
<p><u>Solid doors: Level G2 bullet resistant anti-bandit external door hung to steel frames or similar approved materials.</u></p>		
3	877 x 2 032mm panel single door	No 2
<p><u>Fire doors with commercial veneer or similar approved materials.</u></p>		
4	44mm thick standard class B single fire door and 1,6mm steel frame with single 52 x 25mm rebate, 813 x 2032mm high, with white oak veneer finish to both sides suitable for 230mm brick wall complete, one door mounted pull side non fire door closer mounted with backing plate to door leaf, one narrow style cylinder deadlock with roller bolt, one bolt through handle, one satin chrome door stop, and one pair of three 100mm solid brass hinges.	No 1
<p><u>Kitchen Cupboards</u></p>		
5	Provide the sum of R22, 000.00 (Twenty-two thousands) for Kitchen Cupboards complete with granite kitchen cupboard top to be used as directed by the principal agent and deducted in whole or in part if not required	Item 22,000.00
6	Allow for profit	%
7	Allow for attendance	%
<p>Carried Forward to Summary of Section No. 3</p>		R
<p>Section No. 3 REFURBISHMENT WORK Bill No. 5 Carpentry and Joinery</p>		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 6</u>			
	<u>CEILING, PARTITIONS AND ACCESS FLOORING</u>			
	PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)			
	<u>NOTES:</u> Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 124 for Haylett Formula purposes			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	<u>CEILINGS ETC</u>			
	<u>NAILED UP CEILINGS</u>			
	<u>6,4mm Plasterboard or equally approved with 32mm wrought softwood half round cover strip over joints</u>			
1	Ceilings including 38 x 50mm sawn softwood including hangers and ceiling grid support.	m2	2	
2	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with on 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening on 20 x 20mm pressed steel angle	No	2	
	Carried Forward			R
	Section No. 3 REFURBISHMENT WORK Bill No. 6 Ceilings, Partitions and Access Flooring and			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL No. 7</u></p> <p><u>BUILDINGWORK</u></p> <p><u>METALWORK</u></p> <p>PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)</p> <p><u>NOTES:</u></p> <p>Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 136 for Haylett Formula purposes.</p> <p>Expansion bolts shall be fixed in accordance with the Manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</p> <p><u>WELDED SCREENS, GATES, ETC</u></p> <p><u>Screens and gates to doors</u></p>			
1	Double gate with two single leaves 1620 x 2066mm high of 50 x 50 x 2.5mm hollow section frame and two 50 x 50 x 2.5mm hollow section horizontal middle rails filled in with 20mm diameter solid vertical round bars at 89mm centres framed through middle rails and into framing and fitted with six suitable hinges welded to post and a security gate lock box between middle rails including conversion set or similar approved.	No 1		
2	Single gate with two single leaves 813 x 2032mm high of 50 x 50 x 2.5mm hollow section frame and two 50 x 50 x 2.5mm hollow section horizontal middle rails filled in with 20mm diameter solid vertical round bars at 89mm centres framed through middle rails and into framing and fitted with six suitable hinges welded to post and a security gate lock box between middle rails including conversion set or similar approved.	No 4		
	Carried Forward		R	
	Section No. 3 REFURBISHMENT WORK Bill No. 7 Metalwork			

	Brought Forward			R
	<u>PRESSED STEEL DOOR FRAMES</u>			
3	Frame for door size 813 x 2032mm high	No	2	
4	Frame for door size 900 x 2032mm high	No	1	
	<u>STEEL WINDOWS</u>			
	NOTE : Windows shall be provided with chromium plated brass fittings			
	NOTE : The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for extras on this account will be entertained			
	NOTE : Where so described windows shall be provided with burglar bars to opening and fixed sections, consisting of 20 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame Bars in front of fixed sections to be bent 75mm away from the glass surface -----			
5	Window type NE1 size 533 x 654mm high complete with 4mm obscured glass.	No	1	
	<u>ALUMINIUM WINDOWS</u>			
6	900 x 500 Aluminium Window complete with 6.38mm laminated safety glass including vinyl film to glazing.	No	1	
	<u>STEEL ROLLER SHUTTERS ETC</u>			
	<u>Galvanised roller shutters fixed to brickwork or concrete</u>			
7	Manual push-up 76mm slatted roller shutter for 600 x 900mm high opening	No	3	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 REFURBISHMENT WORK Bill No. 7 Metalwork			

Item No		Unit	Quantity	Rate	Amount
	<u>SECTION NO. 3</u>				
	<u>BILL No. 8</u>				
	<u>STRUCTURAL STEELWORK</u>				
	<u>STEELWORK TO COLUMNS, BEAMS, TRUSSES AND PURLINS</u>				
	<u>HOT AND COLD FORMED STEEL MEMBERS</u>				
1	Allow the sum R150 000 (One hundred and fifty thousands rands) (net) for Structural Steel Works installation, to be performed by a firm of Specialist.		Item		150,000.00
2	Profit on last if required			%	
3	Attendance in connection with Electrical installation			%	
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 REFURBISHMENT WORK Bill No. 8 Structural Steelwork				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 9</u>			
	<u>IRONMONGERY</u>			
	NOTE : Tenderers are advised to study the "Specification of Materials and Methods to be used" (OOG-001E) before pricing this bill			
	NOTE : Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 132 for Haylett Formula purposes			
	NOTE : Where ironmongery is referred to by a trade name or catalogue number, it may be replaced by another product of equal quality with the prior approval of the Representative / Agent			
	NOTE : Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish.			
	<u>THE FOLLOWING IRONMONGERY FIXED TO DOORS, ETC</u>			
	<u>Locks, Bolts and latches</u>			
1	Security lockset - silver or similar approved materials	No	4	
2	WC mortice indicator bolt in satin chrome finish surface mounted and/or similar approved.	No	2	
3	Latch lock 25mm cylinder and premium aluminum door handles slimline or similar approved materials	No	1	
	<u>SUNDRIES</u>			
4	Floor mounted door stop or similar approved materials.	No	41	
5	Wall mounted Stainless Steel Jumbo toilet roll holder and screwed to the wall with stainless steel screws and/or similar approved.	No	3	
	Carried Forward			R
	Section No. 3 REFURBISHMENT WORK Bill No. 9 Ironmongery			

	Brought Forward			R
6	Waste bins satin stainless steel or similar approved waste disposal bins size 396 x 270 x 520mm high, capacity of 45Litres and cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws or similar approved materials.	No	3	
7	Soap dispenser satin stainless steel or similar approved recessed soap dispensers size 128 x 147 x 632mm deep with a replaceable and refillable 1 litre container and cylinder lock with standard key, plugged and screwed to the wall with stainless steel screws or similar approved materials	No	3	
8	Hat hook with rubber buffer - stainless steel or similar approved materials	No	3	
	<u>PUSH PLATES</u>			
9	200 x 800 x 2mm thick aluminium push plate or similar approved materials	No	1	
	<u>DOOR CLOSERS</u>			
10	Regular arm door closer with bracket fixed to metal or similar approved materials.	No	1	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	REFURBISHMENT WORK			
	Bill No. 9			
	Ironmongery			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 10</u>			
	<u>BUILDING WORK</u>			
	<u>PLASTERING</u>			
	PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)			
	NOTES: Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 148 for Haylett Formula purposes			
	<u>SCREEDS</u>			
	<u>Cement screeds steel floated on concrete</u>			
1	25mm thick on floors and landings	m2	97	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster wood floated on brickwork/concrete</u>			
2	On walls	m2	3	
	Carried Forward to Summary of Section No. 3			
	Section No. 3 REFURBISHMENT WORK Bill No. 10 Plastering			R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 11</u>			
	<u>BUILDING WORK</u>			
	<u>TILING</u>			
	PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)			
	NOTES: Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 144 for Haylett Formula purposes			
	<u>TACTILES</u>			
1	Prepare the floor to receive 300 x 300 x 30mm Tactiles cement based product with TAC pins from or similar approved cement based tiles - sealed with manufacturers recommended sealant.	m2	183	
	<u>FLOOR TILES</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>WALL TILING</u>			
	<u>600 x 600 x 5mm Floor tiles or equally approved fixed with adhesive to plaster</u>			
2	To walls	m2	27	
3	To floors	m2	6	
4	On narrow widths	m2	5	
	<u>Sundries</u>			
5	Interior aluminium corner beads strip in matt finish	m	9	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 REFURBISHMENT WORK Bill No. 11 Tiling			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 12</u>			
	<u>BUILDINGWORK</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)			
	NOTES: Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 148 for Haylett Formula purposes			
	<u>Sanitary Fittings, etc</u>			
1	Toilet Pan: Close coupled suite colour white, 90° outlet wash down open rim pan, with "P" or "S" trap, 9Litre white cistern complete with lid, fitments and double flap toilet seat and/or similar approved by the engineer.	No	3	
2	Paraplegic Toilet Pan: Close coupled suite colour white, 90° outlet wash down open rim pan, with "P" or "S" trap, 9Litre white cistern complete with lid, fitments and double flap toilet seat and/or similar approved by the engineer.	No	1	
3	510 x 375mm White vitreous china paraplegic wash hand basin complete with and including two chromium plated elbow action taps, waste union, plug and chain and concealed brackets or similar approved materials.	No	1	
4	Complete set of aluminium paraplegic grab rails to be fitted on the wall.	No	1	
5	Replace dysfunctional cistern ducts.	No	5	
	Carried Forward			R
	Section No. 3 REFURBISHMENT WORK Bill No. 12 Plumbing & Drainage			

Brought Forward		R
6	610 x 385mm White vitreous china flatback wall urinal with top flush entry complete with and including concealed wall hangers, flushmaster with button, chromium plated waste outlet and grating, and with a 15mm chromium plated push button stopcock flushing system with matching extended chromium plated flush pipe with spreaders or similar approved materials.	2
7	Stainless Steel sink single end bowl inset sink, overall size 800 x 460mm wide with one 340 x 370 x 150mm deep bowl fixed to granite countertop on cupboard to suit the inset and/or similar approved.	1
<u>Sundries</u>		
8	Heavy duty toilet seat cover (Superseats toilet seat MDR hinge) or similar approved materials.	6
<u>Taps, Valves, etc, including joints to steel pipes and/or fittings unless otherwise described:</u>		
9	Kitchen wall type sink mixer with star taps or similar approved materials.	1
<u>Traps, etc including joints to steel pipe and/or fittings unless otherwise described:</u>		
10	32-40mm Flexitrap or other approved butyl rubber deep seal P or S trap	1
<u>Electric Hydroboiler complete with all necessary fittings:</u>		
11	Hydroboil - 5litre Stainless Steel - water boiler with stainless steel tank, steam free boiling water, electronic controls, 15mm overflow, connected to 15mm cold water supply including isolating valve, vertical wall mounted water boiler with heating elements, drain accessories, including hangers, brackets, bolts, etc.	1
<u>WATER SUPPLY:</u>		
Carried Forward		R
Section No. 3 REFURBISHMENT WORK Bill No. 12 Plumbing & Drainage		

Brought Forward			R	
<u>Class 1 wall hard drawn copper pipes and fittings with capillary soldered type connections:</u>				
12	15mm Pipes on surfaces, etc.	m	40	
13	22mm Pipes fixed on surfaces, etc.	m	55	
<u>Extra over class O copper pipes for soldered capillary fittings:</u>				
14	15mm Fittings.	No	8	
15	22mm Fittings.	No	12	
<u>Fire appliances etc</u>				
16	4,5kg DCP dry powder portable fire extinguisher on and including wrought meranti backboard size 520 x 100 x 22mm thick plugged and screwed to wall and finished with two coats of polyurethane varnish, including 120 x 20 x 2mm mild steel strip bent to form hook	No	2	
17	Plumbing: Sewer and Water line blockage.		Item	8,000.00
Carried Forward to Summary of Section No. 3				R
Section No. 3 REFURBISHMENT WORK Bill No. 12 Plumbing & Drainage				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 13</u>			
	<u>BUILDING WORK</u>			
	<u>PAINTING</u>			
	PREAMBLES: (For preambles refer to "Specification of Materials and Methods to be used" PW 371)			
	NOTES: Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 148 for Haylett Formula purposes			
	<u>PAINT ON PLASTERED WALLS:</u>			
	<u>Paint to walls</u>			
1	Paint one coat alkali resistant primer undercoat and two coats super acrylic or similar approved materials. Colour as per Architect	m2	382	
2	Paint on concrete bench to match the existing	m2	3	
	<u>PAINT ON METAL SURFACES:</u>			
	<u>Paint to Metal</u>			
3	On steel palisade, etc (both sides measured over full flat area)	m2	115	
4	On rails, bars, etc	m	10	
5	On eaves gutters/rainwater downpipes not exceeding 300mm girth	m	23	
6	On door frames	m2	5	
7	On window frames and steel security grilles.	m2	2	
	Carried Forward			R
	Section No. 3 REFURBISHMENT WORK Bill No. 13 Painting			

Brought Forward				R
8	Spot priming defects in pre-primed surfaces with zinc chromate primer and apply one coat and two coats high gloss enamel paint on steel or similar approved materials - both sides measured on flat)	m2	377	
<u>PAINT ON WOOD:</u>				
<u>Paint to Wood</u>				
9	On doors	m2	65	
<u>Prepare, stop and apply two coat polyurethane clear eggshell varnish, lightly sanded down</u>				
10	Paint two coats polyurethane varnish matt finish or similar approved materials	m2	170	
<u>ON FIBRE-CEMENT</u>				
<u>One coat resin based bonding liquid two full coats UV resistant water based acrylic roof paint</u>				
11	On fascias and barge boards	m2	38	
<u>ON PLASTER BOARD</u>				
<u>One coat alkaline resistant plaster primer and two coats superior acrylic emulsion paint</u>				
12	On ceilings and cornices	m2	65	
Carried Forward to Summary of Section No. 3				R
Section No. 3				
REFURBISHMENT WORK				
Bill No. 13				
Painting				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL No. 14</u>			
	<u>SECURITY FENCING</u>			
	<u>PALISADE FENCING</u>			
	<u>Steel Palisade fencing, gates, etc, including site clearance and preparation of ground:</u>			
1	2100mm High steel palisade fence comprises of 100 x 100 x 4mm Thick square hollow section galvanised mild steel post 4,05m long with closed end cap welded onto top and with 200 x 200 x 6mm galvanised mild steel base plate welded onto bottom end including setting up post and embedding in position in and including 450 x 450 x 300mm concrete base	m 220		
	<u>SUNDRY ALLOWANCE</u>			
2	Allow the provisional sum of R 30 000 (Thirty Thousand Rands) nett for unforeseen external work to be measured and priced in accordance with these Bills of Quantities and omitted in part or whole as instructed by the Principal Agent	Item		30,000.00
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 REFURBISHMENT WORK Bill No. 14 External work - Fencing			

Bill No		Page No	Amount	
	Section No. 3			
	REFURBISHMENT WORK			
	<u>SECTION SUMMARY - REFURBISHMENT WORK</u>			
1	Concrete, Formwork and Reinforcement	57		
2	Masonry	59		
3	Waterproofing	60		
4	Roof covering	61		
5	Carpentry and Joinery	64		
6	Ceilings, Partitions and Access Flooring and	66		
7	Metalwork	68		
8	Structural Steelwork	69		
9	Ironmongery	71		
10	Plastering	72		
11	Tiling	73		
12	Plumbing & Drainage	76		
13	Painting	78		
14	External work - Fencing	79		
	Carried to Final Summary		R	
	Section No. 3			
	REFURBISHMENT WORK			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL No. 1</u>			
	<u>ELECTRICAL INSTALLATION</u>			
	<u>Excavation and Trenching</u>			
	<u>General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services</u>			
	<u>Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks.</u>			
	<u>Digging of a trench including backfilling with suitable sifted soil in accordance with relevant clause of the specification and removal of any excess soil, stones and rock</u>			
1	Trench in Earth (300mm wide x 600mm deep)	m3	100	
2	Bedding sand	m3	20	
3	Excavation and backfilling in soft soil	m3	100	
4	Excavation and backfilling in hard rock	m3	5	
	<u>Supply and install heavy duty Unplasticised polyvinylchloride (UPVC) ribbed sleeve piping including short lengths, bends and jointing, laid in trench (trench backfilling measured elsewhere)</u>			
5	50mm diameter uPVC cable sleeves	m	50	
6	110mm diameter uPVC cable sleeves	m	50	
	<u>Radius bends:</u>			
7	50mm Diameter	No	8	
8	110mm Diameter	No	6	
	Carried Forward			R
	Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work			

Brought Forward			R
<u>Draw Wires</u>			
9	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	200
<u>Earth conductor</u>			
<u>Supply and install insulated copper earth wire with cable, including terminations</u>			
10	2.5mm ²	m	50
11	4mm ²	m	50
<u>Power Cabling</u>			
<u>Supply and install the following cables laid on cable tray, pulled in a sleeve or in a trench, including all fixings and accessories. The cables shall be 600/1000V/ PVC/SWA/PVC/ECC with copper conductors, including terminations</u>			
12	3,5mm ² x 4 core ecc cable (Sub DB) connection point to be confirmed	m	50
13	6mm ² x 4 core ecc cable (Sub DBs)	m	50
<u>Reticulation</u>			
14	Allow for 100A TP MCB (to be installed in Main DB for new Sub DD)	No	1
15	Supply, deliver, install, test and commission 10kVA three phase UPS unit, including all batteries for 2hour backup, by-pass switches, connections into the unit, and all accessories.	No	1
<u>Distribution Boards</u>			
<u>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper bus-bars, neutral and earth bars, correctly sized internal.</u>			
16	SU 2 Distribution board	No	1
<u>Cable tray - Medium duty</u>			
Carried Forward			R
Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work			

Brought Forward				R
	<u>Supply and installation of galvanised, heavy medium duty cable tray, hanging and / or vertically supported. Price to include for hangers, supports, joints and other materials required for the complete installation, including wastage.</u>			
17	200mm wide cable basket	m	20	
<u>CONDUITS</u>				
<u>Light gauge conduit</u>				
	<u>Supply and install steel conduit including fixings, couplings, bends, drawboxes, waste, etc. Conduit shall be fixed to surface or installed in ceiling voids.</u>			
18	20mm PVC Conduit	m	150	
19	25mm PVC Conduit	m	150	
<u>Conduit Boxes</u>				
	<u>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.</u>			
20	20mm diameter 4 way type(round box)	No	10	
<u>PVC Wiring conductors</u>				
	<u>Supply and install PVC insulated copper conductors as specified, coloured as necessary, drawn into conduit or wiring trunking:</u>			
21	2.5mm ²	m	700	
22	4mm ²	m	500	
<u>Light Switches</u>				
Carried Forward				R
Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work				

Brought Forward			R
	<p><u>Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas</u></p>		
23	1 Lever 1 way	No	10
	<p><u>Switched Socket Outlets</u></p> <p><u>Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.</u></p> <p><u>The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.</u></p> <p><u>All flush type boxes and special pedestals measured elsewhere.</u></p> <p><u>Flush switched sockets type:</u></p>		
24	16A 3 pin double socket outlets	No	8
25	16A 3 pin single socket outlets	No	3
26	20A surface mounted isolator, for HVAC and handrier	No	5
	<p><u>Light Fittings</u></p> <p><u>Supply, take delivery, store, protect, erect, fix, connect and lamp the following luminaires. The price shall include all lamps, control gear, drivers and fixing materials and complete with 5A plug and top including 3m flexible 3 core cable..</u></p> <p><u>Fittings to be equal and similar approved to the below quoted manufacture.</u></p>		
27	Type B	No	2
28	Type L	No	8
29	Type P1	No	15
	Carried Forward		R
	<p>Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work</p>		

Brought Forward			R
30	Photocell	No	2
31	High Mast lighting (same as existing)	No	5
<u>Electrical Tests</u>			
<u>Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.</u>			
32	Building installation		Item
<u>Earthing</u>			
33	To provide the earthing and testing of the electrical installation in accordance with the General Specification, regulations and the requirements of the local authority. All circuits shall be earthed in accordance with the wiring code. Where the earth conductor is joined at the terminal block, the wires shall be soldered together so that removal of the equipment shall not result in an interruption of the earth continuity of the conductors.		Item
<u>Trunking</u>			
<u>Supply and install galvanised wiring trunking, complete with PVC cover, hanging and / or vertically supported. Price to include for bends, joints, splices, hangers and other materials the required for complete installation, including wastage.</u>			
<u>Galvanised trunking</u>			
34	P2000 galvanised trunking	m	50
<u>Supply and installation of 2 channel 3 compartment Galvanised Power Skirting complete with duct and front covers but excluding any conduit work, wiring or switched sockets</u>			
35	2 Channel compartment to cover power skirting as above described	m	24
<u>Supply and install the following switch sockets mounted on power skirting</u>			
36	16 Amp, single Switched Socket Outlet - white + white switch	No	2
Carried Forward			R
Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work			

Brought Forward		R
37	Double 16 Amp, Switched Socket Outlet -white + white switch	No 8
38	16 Amp, Switched Socket Outlet -white + white switch, mounted on skirting trunking	No 8
39	16 Amp, Switched Socket Outlet -blue + blue switch, mounted on skirting trunking	No 4
40	20A Surface mounted Isolator, for HVAC and handrier.	No 2
<u>AUXILIARY SERVICES</u>		
<u>AIR TERMINATION SYSTEM</u>		
41	Supply an air termination system to exterior of building utilising the steel roof construction by bonding the steel roof to the down conductor system.	Item
<u>DOWN CONDUCTOR SYSTEM</u>		
42	Supply and install a down conductor system comprising of 16mm insulated copper cable connected to the air termination system, externally mounted on wall and terminated in a test box installed 300mm from ground level	Item
<u>EARTHING SYSTEM</u>		
43	Supply and install 1.2m earth spikes from each test point into the ground 1m away from the building mat and bond all down conductors to the earth mat at various points on the mat. Mat design based on a soil resistivity of 40 ohms/m at 2m to reach a reading of less than 10 ohms as specified by SANS 62305-3	Item
<u>EQUIPOTENTIAL BONDING</u>		
44	Bond system equipotential to main earth supply of building by means of a 16mm ² copper cable.	m 50
<u>C.O.C.</u>		
45	Certificate to be issued in accordance with SANS 10313-2012 specification	Item
Carried Forward		R
Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work		

**Kalafong Train Station
Repairs and Maintenance**

Brought Forward		R
<u>MAINTENANCE AND EXTENDED GUARANTEE</u>		
46	Maintain fully and guarantee the above equipment for a period of 12 months	Item
47	PROVISIONAL SUM FOR PA SYSTEM	Item 20,000.00
48	PROVISIONAL SUM FOR FIRE DETECTION	Item 25,000.00
49	PROVISIONAL SUM FOR FIBRE CONNECTION	Item 50,000.00
<u>CONNECTION AND LIAISON</u>		
50	Allow for liaison with Local Authorities	Item
<u>GENERAL ITEMS</u>		
51	Provision of a complete set of As-built drawings	Item
52	Provision of Operation Manuals	Sets 1.00
53	Provision of Certificate of Compliance for the respective Distribution Boards as required by SANS 10142-1 for the installation covered by this Bill.	Item
<u>PROVISION FOR BACKUP SOLAR SYSTEM</u>		
54	PROVISIONAL SUM FOR BACKUP SOLAR SYSTEM	Item 300,000.00
<u>MECHANICAL INSTALLATION</u>		
<u>SUPPLY THE FOLLOW INDOOR UNITS (VRV/VRF) TYPE C/W ALL MOUNTED BRACKETS, REMOTE CONTROLLERS</u>		
55	Wall Mount Unit (2,8kW Cooling, 3,2kW Heating)	No 1
56	Insulated refrigerant pipping complete will all fittings (contractor to produce refrigerant piping drawings and submit to engineer for approval)	Item
57	Condensate piping complete with all fittings	Item
58	BC Boxes as per manufacturer's instructions	Item
Carried Forward		R
Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work		

		Brought Forward		R
		<u>SUPPLY AND INSTALL THE FOLLOWING VRV/VRF HEAT RECOVERY OUTDOOR UNIT</u>		
59	VRV/VRF Outdoor unit (11kW Cooling, 13kW Heating)	No	1	
		<u>SUPPLY AND INSTALL THE FOLLOWING WALL FANS</u>		
60	100 l/s @ 30Pa static	No	4	
		<u>GENERAL ITEMS</u>		
61	Production of Shop drawings		Item	
62	Testing of the installation and commissioning		Item	
63	Supply of handover files and operating manuals		Item	
		Carried to Final Summary		
Section No. 4 ELECTRICAL & MECHANICAL WORKS Bill No. 1 Electrical & Mechanical Maintenance work				R

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO.1</u>			
	<u>ROADWORKS, PARKING AND PAVING</u>			
	<u>Note: For preambles see "Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors"</u>			
	<u>Selected topsoil filling obtained from the excavated materials on site</u>			
1	In backfilling behind kerbs	m3	9	
	<u>PAVEMENT LAYERS OF GRAVEL MATERIAL</u>			
	<u>Pavement layers constructed from gravel taken from borrow pit, including free haul up to 1,0km</u>			
	<u>(a) 150 mm Gravel selected layers (G6) compacted to:</u>			
2	(1) 93% of modified AASHTO density	m3	205	
	<u>(d) 150 mm Gravel subbase C4 (chemically stabilized material with 3% portland cement) compacted to:</u>			
3	1) 95% of modified AASHTO density	m3	150	
	<u>Imported filling (G5 materials) supplied and carted on by the contractor in 150mm thick layers stabilised to achieve C4 grading and compacted to 93% Mod AASHTO density at OMC 2%-1%</u>			
4	150mm base layer under paving, roadways, etc.	m3	143	
	<u>Keep bulk excavations free of water</u>			
5	Allow for keeping excavations free of water and mud by pumping or bailing.	Item		
	Carried Forward		R	
	Section No. 5 EXTERNAL WORKS Bill No. 1 Roadworks, Parking and Paving			

Brought Forward				R
<u>Compaction of surfaces</u>				
6	Compaction of ground surface under roads, parking areas etc, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	300	
<u>TESTING</u>				
<u>Prescribed density tests on filling</u>				
7	"Modified AASHTO Density" test	No	10	
<u>PAVING</u>				
<u>CEMENT INTERLOCKING PAVING</u>				
<u>Light grey interlocking precast concrete (25MPa) paving blocks. Blocks to comply with SANS 1058 Abrasion test</u>				
8	80mm Thick grey interlocking precast concrete paving blocks with butt joints on and including 20mm thick river sand bedding treated with weedkiller and with clean sand swept onto joints	m2	300	
<u>ROAD MARKINGS</u>				
<u>PAINTWORK</u>				
<u>Retro-reflective road marking paint:</u>				
<u>White lines (broken or unbroken)</u>				
<u>Prepare and apply one coat white reflective road marking paint on precast concrete paving blocks and/or asphalt road surface</u>				
9	100mm Wide road marking paint	Km	1	
10	100mm Wide road marking paint	Km	1	
Carried Forward				R
Section No. 5 EXTERNAL WORKS Bill No. 1 Roadworks, Parking and Paving				

Brought Forward				R
<u>Prepare and apply one coat yellow reflective road marking paint on precast concrete paving blocks and/or asphalt road surface</u>				
11	1100mm Wide road marking paint	Km	1	
12	200mm Wide road marking paint	Km	1	
Prepare and apply one coat red reflective road marking paint on precast concrete paving blocks and/or asphalt road surface				
13	100mm Wide road marking paint	Km	1	
14	White lettering and symbols	m2	3	
15	Yellow lettering and symbols	m2	3	
<u>Variations in rate of application:</u>				
16	White paint	l	3	
17	Yellow paint	l	3	
18	Red paint	l	3	
19	Retro-reflective beads	kg	3	
20	Plastic road-marking paints (specify)	l	3	
21	Setting out and premarking the lines (Excluding traffic- island markings, lettering and symbol	Km	1	
<u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u>				
<u>CONCRETE KERBING, ETC</u>				
Carried Forward				R
Section No. 5 EXTERNAL WORKS Bill No. 1 Roadworks, Parking and Paving				

Brought Forward				R
<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
22	Precast concrete edge kerbing to SABS 927 Fig.11 in 1000mm lengths with 10mm wide butt joints filled in with (2:1) cement mortar and pointed with grooved half round joints and 10mm wide open butt joints at 5mm centres including 15MPa/19mm mass concrete bedding size 50mm thick x 300mm wide, 15MPa mass concrete haunching behind kerb for full length size 150mm high x 150mm wide, including any necessary excavation, formwork, etc. and backfilling at back of kerbs, topsoiled and levelled to adjacent surfaces	m	140	
23	Precast concrete edge kerbing to SABS 927 Fig.8c in 1000mm lengths with 10mm wide butt joints filled in with (2:1) cement mortar and pointed with grooved half round joints and 10mm wide open butt joints at 5mm centres including 15MPa/19mm mass concrete bedding size 50mm thick x 300mm wide, 15MPa mass concrete haunching behind kerb for full length size 150mm high x 150mm wide, including any necessary excavation, formwork, etc. and backfilling at back of kerbs, topsoiled and levelled to adjacent surfaces	m	104	
<u>Concrete kerbing-channeling combination</u>				
<u>(1) Figure 7 kerb (Semi-Mountable) Type B:</u>				
24	(i) with 300m wide concrete channel	m	10	
<u>(2) Figure 8B kerb (Mountable) Type C:</u>				
25	(i) with 300m wide concrete channel	m	10	
<u>Cast in situ concrete edge beams, class 25/19 concrete (Formwork and clause U2 surface finish included)</u>				
26	Edge beam 300mm wide x 200mm high	m	75	
Carried Forward to Summary of Section No. 5				R
Section No. 5 EXTERNAL WORKS Bill No. 1 Roadworks, Parking and Paving				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5</u></p> <p><u>BILL NO.2</u></p> <p><u>STORMWATER DRAINAGE</u></p> <p><u>Note: For preambles see "Model Preambles for Trades 2008 edition published by the Association of South African Quantity Surveyors"</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Selected fill materials Selected material shall be material that has a P.I not greater than 6, and is free from vegetation and from lumps and stones of diameter >30mm. This materials shall be used for the selected blanket.</u></p> <p><u>Selected Granular Materials Selected granular materials shall be of a granular, non cohesive nature that is singularly graded between 6mm and 19mm, free draining, has a compatibility factor not exceeding 0.4 or such other value as is laid down in project specification. For PVC and uPVC the factor is to exceed the following:</u></p> <p><u>1) 0.1 - Materials suitable for all ground conditions</u></p> <p><u>2) 0.3 - Materials suitable provided extra care is taken during compaction operation</u></p> <p><u>This material is not to be used if the pipes and bedding shall be subjected to water logged conditions after laying and backfilling.</u></p> <p><u>Joints To ensure that each pipe will be fully supported throughout the length of its barrel on the bedding cradle, joint pockets/holes shall be formed in the bedding cradle for pipe socket</u></p> <p><u>Excavation</u></p> <p><u>(a) Excavating soft material situated within the following depth ranges below the surface level:</u></p>			
1	(i) 0 m up to 1,5 m	m3	100	
	Carried Forward		R	
	Section No. 5 EXTERNAL WORKS Bill No. 2 Stormwater Drainage			

	Brought Forward				R
2	(ii) Exceeding 1,5 m and up to 3,0 m	m3	50		
	<u>(b) Extra over sub-item (a) for excavation</u>				
3	In hard material, irrespective of depth	m3	35		
	<u>Backfilling:</u>				
4	(a) Using the excavated material	m3	100		
	<u>STORMWATER DRAINAGE</u>				
	<u>Concrete pipe culverts, interlocking joint pipes:</u>				
	<u>b) On class B bedding</u>				
	<u>(1) Class 100D Pipes</u>				
5	600mm diameter	m	10		
	<u>MANHOLES, ETC.</u>				
	<u>The following in manholes for:</u>				
	<u>Manholes size deep formed of one brick wall sides in extra hard burnt clay bricks in Class 1 cement mortar on and including 200mm thick 25MPa/19mm mass concrete base with ref 245 mesh to top and bottom, including plaster to internal and two coats to external walls finished smooth, complete with type 2A heavy duty manhole cover and frame size 850 x 850mm set in 20MPa concrete surround, including excavation, backfilling compacted to 93% Mod AASHTO density</u>				
6	Manhole size 1250mm x 1000mm not exceeding 1m deep	No	1		
7	Brick kerb inlet average size 2500mm x 1250mm	No	2		
	<u>TESTING:</u>				
8	Provide all necessary apparatus water, etc. for and test the whole of the Stormwater Drainage installation to the satisfaction of the Representative/Agent and Municipality, rectify any defective work free of charge and leave perfect.			Item	
	Carried Forward to Summary of Section No. 5				R
	Section No. 5 EXTERNAL WORKS Bill No. 2 Stormwater Drainage				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 3</u>			
	<u>LANDSCAPING</u>			
	<u>TREES, LAWN, BINS, ETC</u>			
	<u>Planting:</u>			
	<u>Trees:</u>			
1	Celtis africana 100L container, 50mm stem diameter, 700mm Crown diameter tree - The rate (per tree) shall include all costs of excavation, trenching by hand, transportation, soil preparation (210g of 2:3:2(22)+Zn and super-phosphate fertiliser), styling of trees, supervision, labour tree stakes, tree ties, tree guard and shall include the maintenance of such plants until practical completion is reached.	No	4	
2	Combretum erythrophyllum 100L container, 50mm stem diameter, 700mm Crown diameter tree - The rate (per tree) shall include all costs of excavation, trenching by hand, transportation, soil preparation (210g of 2:3:2(22)+Zn and super-phosphate fertiliser), styling of trees, supervision, labour tree stakes, tree ties, tree guard and shall include the maintenance of such plants until practical completion is reached.	No	4	
3	Harpephyllum caffrum 100L container, 50mm stem diameter, 700mm Crown diameter tree - The rate (per tree) shall include all costs of excavation, trenching by hand, transportation, soil preparation (210g of 2:3:2(22)+Zn and super-phosphate fertiliser), styling of trees, supervision, labour tree stakes, tree ties, tree guard and shall include the maintenance of such plants until practical completion is reached.	No	4	
4	Searsia lancea 100L container, 50mm stem diameter, 700mm Crown diameter tree - The rate (per tree) shall include all costs of excavation, trenching by hand, transportation, soil preparation (210g of 2:3:2(22)+Zn and super-phosphate fertiliser), stayling of trees, supervision, labour tree stakes, tree ties, tree guard and shall include the maintenance of such plants until practical completion is reached	No	4	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5			
	EXTERNAL WORKS			
	Bill No. 3			
	External work - Landscaping			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5</u></p> <p><u>BILL NO.4</u></p> <p><u>CARPORTS</u></p> <p><u>PREAMBLES</u></p> <p><u>PREAMBLES:</u></p> <p><u>(For preambles refer to "Specification of Materials and Methods to be used" PW 371)</u></p> <p><u>NOTES:</u></p> <p><u>Unless otherwise stated all items in this bill shall be deemed to fall into Work Group No. 136 for Haylett Formula purposes.</u></p> <p><u>Expansion bolts shall be fixed in accordance with the Manufacturer's instructions and prices are to include for drilling mortice for sockets in brickwork or concrete for same</u></p> <p><u>Supply and Install double (6mx6m) carport with standard gutters and downpipes to the following specifications:</u></p>			
1	The frame of the carport to consist of 4 of 150x50x20x2mm lipped channel (6m of length) and 5 of 75x50x20x2mm lipped channel (6m of length) and 4 of 76x76 mm square tubing post (3m long). Roofing with 0.6mm KLIPLOK metal roof sheeting or similar approved.	No	3	
	Carried Forward to Summary of Section No. 5			
	Section No. 5 EXTERNAL WORKS Bill No. 4 Carports		R	

Section No. 5

EXTERNAL WORKS

SECTION SUMMARY - EXTERNAL WORKS

Bill No		Page No	Amount
1	Roadworks, Parking and Paving	92	
2	Stormwater Drainage	94	
3	External work - Landscaping	95	
4	Carports	96	
Carried to Final Summary			R
	Section No. 5 EXTERNAL WORKS		

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 6</u>			
	<u>BILL NO. 1</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>PROVISIONAL AMOUNTS</u>			
	All provisional sums are nett and exclude builder's discount. The contractor is referred to the preliminaries in this regard. The contractor is to allow for profit and attendance under the relevant item and must note that he is required to allow for giving every facility to, attending upon, profit and making good in all trades after the specialists have completed their work.			
	<u>CLOSED CIRCUIT TELEVISION SYSTEM</u>			
	<u>HEAD-END EQUIPMENT, CAMERAS, ACCESS CONTROL, INTRUSION SYSTEM, TESTING & COMMISSIONING</u>			
1	Provide the sum of R 225, 000.00 (Two Hundred and Twenty-five thousands rands) for Head-end Equipment, Cameras, Access Control, Intrusion System, Testing & Commissioning to be used as directed by the principal agent and deducted in whole or in part if not required	Item		225,000.00
2	Allow for profit		%	
3	Allow for attendance		%	
	<u>COMMUNITY LIAISON OFFICER - CLO</u>			
4	Provide the sum of R60 000.00 (Sixty thousand rand) for CLO to be used as directed by the principal agent and deducted in whole or in part if not required			
	Allowance for CLO: R15,000.00 per month.	Item		60,000.00
5	Allow for attendance		%	
	Carried to Final Summary			
	Section No. 6 PROVISIONAL AMOUNTS Bill No. 1 Provisional Sums		R	

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	48	
2	DEMOLITIONS & ALTERATIONS WORK	54	
3	REFURBISHMENT WORK	80	
4	ELECTRICAL & MECHANICAL WORKS	88	
5	EXTERNAL WORKS	97	
6	PROVISIONAL AMOUNTS	98	
	Sub-Total of All Works excluding Contingencies		R
	<u>CONTINGENCY</u>		
	Allow for contingencies at 5%	%	
	Sub-Total including Contingency		R
	SUB TOTAL Before VAT		R
	ADD VAT @ 15%		R
	Carried to Form of Tender		R