



public works

Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**CONTRACT No. CDC/386/24**

**FOR**

**ELLIOT MAGISTRATE COURT:  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF THE  
ENTIRE FACILITY AND CAPITAL WORKS TO INCLUDE  
CONSTRUCTION OF ADDITIONAL ACCOMMODATION**

**CIDB GRADE: 7GB OR HIGHER**

**BOOK 2 (THE RETURNABLE)**

**CLOSING DATE: 20 JANUARY 2025**

**TIME: 12:00**

**Classification: PUBLIC**

**PREPARED FOR:**

Coega Development Corporation (Pty) Ltd  
Harraway House, No. 12  
Pearce Street, Berea  
East London  
5241

**PREPARED BY:**

Clarence Bobie Incorporated  
90 Ebdon Street  
Queenstown  
5319

**NAME OF TENDERER:** \_\_\_\_\_

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## COEGA DEVELOPMENT CORPORATION (PTY) LTD

## ELLIOT MAGISTRATE COURT: PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF THE ENTIRE FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF ADDITIONAL ACCOMMODATION

SBD1  
PART A  
INVITATION TO BID

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)</b>					
BID NUMBER:	CDC/386/24	CLOSING DATE: 20 JANUARY 2024		CLOSING TIME:	12H00
DESCRIPTION	<b>ELLIOT MAGISTRATE COURT</b>				
<b>BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)</b>					
NO 12, HARRAWAY HOUSE					
PEARCE STREET					
BEREA EAST LONDON					
5241					
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b>			<b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>		
CONTACT PERSON	ZINE MTANDA		CONTACT PERSON		
TELEPHONE NUMBER			TELEPHONE NUMBER		
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	mthathatenders@coega.co.za		E-MAIL ADDRESS		
<b>SUPPLIER INFORMATION</b>					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?		<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]
<b>QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS</b>					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

## PART B TERMS AND CONDITIONS FOR BIDDING

<p><b>1. BID SUBMISSION:</b></p> <p>1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.</p> <p>1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</b></p> <p>1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.</p> <p>1.4. <b>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).</b></p>
<p><b>2. TAX COMPLIANCE REQUIREMENTS</b></p> <p>2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.</p> <p>2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.</p> <p>2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.</p> <p>2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.</p> <p>2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.</p> <p>2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.</p> <p>2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."</p>

**NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.**

SIGNATURE OF BIDDER: .....

CAPACITY UNDER WHICH THIS BID IS SIGNED: .....  
(Proof of authority must be submitted e.g. company resolution)

DATE:



**RESPONSIVENESS CHECKLIST**

ITEM NO.	DESCRIPTION	CHECKED
1	Completed and signed Invitation to Bid ( <b>SBD 1</b> ) (in case of a Joint Venture/Consortium, each entity must provide the CSD number in the SBD 1 form.	
2	Proof of an active CIDB grading of <b>7GB or higher</b> . Emerging contractors with CIDB grading designation of <b>6GB PE</b> are not eligible to make submission and will not be considered	
3	Completed and signed Bidder's Disclosure ( <b>SBD 4</b> ). (in case of a Joint Venture/Consortium, a separate SBD 4 form in respect of <b>each</b> party to the JV must be completed and submitted)	
4	Completed and Signed Attendance Register at the mandatory briefing meeting. <i>It must be completed in the name of the entity that will tender. One person cannot represent more than one company.</i>	
5	Fully completed and Signed Form of Offer.	
6	A Signed <b>letter of intent</b> to enter into a Joint Venture/Consortium. To be signed by all parties to the Joint Venture/ Consortium ( <b>Where applicable</b> ).	
7	Authority of the Lead Partner to sign Joint Venture/Consortium documents. To be signed by all parties in the Joint Venture/ Consortium (Where applicable).	
8	<b>original fully completed, priced and handwritten Bill of Quantities</b> (including Mechanical, Electrical BoQ & SHE BoQ (where applicable),) must be filled in clearly legible with <b>permanent</b> black ink.	

## TENDER DOCUMENT CHECKLIST

Tenderers must complete this document checklist to ensure that all information is completed in the Tender Document.

ITEMS		CHECKED (by the Contractor)
1)	Correct Tender Offer of Amount carried forward to Cover Page and Form of Offer and Acceptance in Section C1	
2)	All pages requiring signatures signed by Tenderer	
3)	Bills of Quantities	
i)	Section Summaries and Final Summary Completed in <b>BLACK INK</b>	
ii)	Corrections crossed out and initialled	
4)	All returnable Documents and Schedules submitted	
A	Authority for Signatory	
B	Schedule of Work carried out by Tenderer	
C	Proposed Key Personnel	
D	Schedule of Proposed-Subcontractors	
F	Financial References	
G	Estimated Monthly Expenditure	
H	POPIA: Consent Form	
I	Details of Amendments and Qualifications	
K	EME / QSE Target Form	
L	Record of Addenda to Tender Document	
N	Joint Venture Disclosure Form	
O	BBBEE Validation & CIDB Certificate	
P	Quality Control System and Procedures	
SBD 1	Invitation to Bid	
SBD 4	Bidders Disclosure form	
SBD 6.1	Preference Points claim form	
C2.1	Pricing Instructions	
C3	Specifications & Pricing Schedules	

**PART C1: AGREEMENT AND CONTRACT DATA**

## C1.1 Form of Offer and Acceptance Offer

The **Employer**, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of a contractor for Elliot Magistrate Court: Planned Maintenance, Repair and Refurbishment of The Entire Facility and Capital Works to Include Construction of Additional Accommodation

The tenderer, identified in the Offer signature block, has examined the documents listed in the Tender Data and addenda thereto as listed in the Returnable Schedules, and by submitting this Offer has accepted the Conditions of Tender

The tenderer, identified in the Offer signature block, has examined the draft contract as listed in the Acceptance section and agreed to provide this Offer.

### THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VAT IS:

R (in words)

.....  
.....

R (in figures) .....

**THE OFFERED COST PARAMETERS TO PROVIDE THE WORKS, EXCLUSIVE OF VALUE ADDED TAX, ARE AS SET IN THE CONTRACT DATA.**

This Offer may be accepted by the Employer by signing the Acceptance part of this Form of Offer and Acceptance and returning one copy of this document including the Schedule of Deviations (if any) to the tenderer before the end of the agreed period of validity or other period as agreed, whereupon the tenderer becomes the party named as the **Contractor** in the conditions of contract identified in the Contract Data.

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**Name(s)**

**Capacity**

**for the  
Tenderer**

*(Insert name and address of  
organisation)*

**Name &  
signature of  
witness**

**Date**

**Acceptance**

By signing this part of this Form of Offer and Acceptance, the **Employer** identified below accepts the tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the Employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

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The terms of the contract, are contained in:

Part C1            Contract Data

Part C2            Pricing Data

Part C3            Scope of Work

Part C4            Site Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

Deviations from and amendments to the draft contract as well as any changes to the terms of the Offer agreed by the tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within Fourteen (14) working days of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), deliver to the Employer's agent (whose details are given in the Contract Data) proof of insurances, Safety, Health and Environmental Plans and any other documentation (except securities/ construction guarantees) to be provided in terms of the conditions of contract identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement by the Contractor and the Employer shall be entitled at his discretion to terminate this agreement.

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The tenderer shall within Twenty one (21) working days of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), deliver to the Employer's agent (whose details are given in the Contract Data) securities/ construction guarantees to be provided in terms of the conditions of contract identified in the Contract Data. Failure to fulfil this obligation in accordance with those terms shall constitute a repudiation of this agreement by the Contractor and the Employer shall be entitled at his discretion to terminate this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed copy of this document, including the Schedule of Deviations (if any). Unless the tenderer (now **Contractor**) within Five (5) working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

**Signature(s)**

**Name(s)**

**Capacity**

**for the  
Employer**

*(Insert name and address of  
organisation)*

**Name &  
signature of  
witness**

**Date**

**Schedule of Deviations**

1 Subject: \_\_\_\_\_  
Details: \_\_\_\_\_

\_\_\_\_\_

2 Subject \_\_\_\_\_  
Details: \_\_\_\_\_

\_\_\_\_\_

3 Subject \_\_\_\_\_  
Details: \_\_\_\_\_

\_\_\_\_\_

4 Subject \_\_\_\_\_  
Details: \_\_\_\_\_

\_\_\_\_\_

5 Subject \_\_\_\_\_  
Details: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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By the duly authorised representatives signing this agreement, the Employer and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

**Signature(s)**

.....

**Name(s)**

.....

**Capacity**

.....

**For the  
Employer**

.....  
(Insert name and address of organisation)

**Name and  
signature of  
witness**

.....

**Date**

.....

**Signature ()**

.....

**Name(s)**

.....

**Capacity**

.....

**For the  
Contractor**

**Name and** .....  
(Insert name and address of organisation)

**signature of  
witness**

.....

**Date**

.....

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### C.1.2 Contract Data

The Conditions of Contract are the **JBCC Series 2000 Principal Building Agreement (Edition 6.2, May 2018)**, published by the Joint Building Contracts Committee Inc. Copies of these documents may be obtained from the **Association of South African Quantity Surveyors (011) 315 4140**, the **Master Builders Association (011)205 9000**, the **South African Association of Consulting Engineers (011) 463 2022** or the **South African Institute of Architects (011) 486 0684**.

Each item of data given below is cross-referenced to the clause in the JBCC Principal Agreement to which it mainly applies.

## Part 1: Data provided by the Employer

JBCC Clause	Data	
<b>A 1.0 [1.1]</b>	<b>Works: Condition Based Maintenance</b>	
	Project Name:	<b>ELLIOT MAGISTRATE COURT</b>
	Reference Number:	CDC/386/24
	Works Description:	<b>ELLIOT MAGISTRATE COURT: PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF THE ENTIRE FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF ADDITIONAL ACCOMMODATION</b>
<b>A 2.0 [1.1]</b>	<b>Site:</b> 34 Voortrekker Street, Khowa (Elliot)	
	Erf/ Stand Number	
	Township/ Suburb	Khowa (Elliot)
	Site Address	34 Voortrekker Street
	Local Authority	O.R Tambo District
<b>A 3.0 [1.1]</b>	<b>Employer:</b>	
	Official Name of Organ of State /Public Sector Body	<b>Coega Development Corporation (Pty) Ltd</b>
	Business registration number	1982/003891/07
	VAT/GST number	403 011 9947
	Country	South Africa
	Employer's representative Name	Zine Mtanda
	Telephone number	
	E-mail	
	Mobile number	

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	Postal address	East London Office, Ground Floor, Harraway House, 12 Pearce Road, Berea, East London	
	Physical address	East London Office, Ground Floor, Harraway House, 12 Pearce Road, Berea, East London	
<b>A 4.0 [1.1]</b>	<b>Principal Agent :</b>		
	Name	<b>Clarence Bobie Incorporated</b>	
	Legal entity of above	Quantity Surveyors	
	Country	South Africa	
	Contract Person	Merrick Heuer	
	Telephone number		
	Mobile Number		
	E-mail		
	Postal address	90 Ebdon Street, Queenstown	
	Physical address	90 Ebdon Street, Queenstown	
<b>A 5.0 [1.1]</b>	<b>Agent (1):</b>	Discipline:	Architect
	Name	<b>Helm Architects</b>	
	Legal entity of above		
	Country	South Africa	
	Contract Person	Marius Helm	
	Telephone number		
	Mobile Number		
	E-mail		
	Postal address	69 Prince Alfred Street, Queenstown	
	Physical address	69 Prince Alfred Street, Queenstown	
<b>A 7.0 [1.1]</b>	<b>Agent (2):</b>	Discipline:	Quantity Surveyor
	Name	<b>Clarence Bobie Incorporated</b>	
	Legal entity of above	Quantity Surveyors	
	Country	South Africa	
	Contract Person	Merrick Heuer	
	Telephone number		
	Mobile Number		
	E-mail		
	Postal address	90 Ebdon Street, Queenstown	
	Physical address	90 Ebdon Street, Queenstown	
<b>A 8.0 [1.1]</b>	<b>Agent (3) :</b>	Discipline:	Electrical & Mechanical Engineer

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	Name	<b>Eye Sizwe Consulting Engineers</b>	
	Legal entity of above		
	Country	South Africa	
	Contract Person	Mike Petzer / Morgan Govender	
	Telephone number		
	Mobile Number		
	E-mail		
	Postal address		
	Physical address	16 Allenby Road, Selborne, East London	
A 9.0 [1.1]	<b>Agent (4) :</b>	Discipline :	Civil & Structural Engineer
	Name	<b>HHO</b>	
	Legal entity of above		
	Country	South Africa	
	Contract Person	Gustav Beukman	
	Telephone number		
	Mobile Number		
	E-mail		
	Postal address		
	Physical address	14 St. Helena Road, Beacon Bay, East London	

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## PART B - CONTRACT INFORMATION

JBCC Clause	DATA	
<b>B 1.0</b> <b>[1.1]</b>	<b>Definitions</b>	
	<b>Bills of Quantities:</b> System/Method of measurement	The Bills of Quantities were drawn up in accordance with the measurement system stated in Part C2: Pricing Data
	<b>Contract Sum</b>	The total offered price inclusive of VAT as stated and agreed to in the Form of Offer and Acceptance.
	<b>Interest</b>	The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999), calculated as simple interest, in respect of debts owing to the State,  and will be the rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975), calculated as simple interest, in respect of debts owing by the state
	<b>Penalty</b>	Penalty for late or non-completion (clause 24.0): For the whole works as per sub-clause 24.3.1: The penalty will be calculated at 7cents per 100 rand of the Contract Value per calendar day rounded up to the nearest R10.
<b>B 2.0</b> <b>[2.1]</b>	<b>Law, regulations and notices</b>	
	Law applicable to the works, state country [2.1]	The governing law is the law of the Republic of South Africa. The parties consent to the jurisdiction of the High Court for the purposes of this clause.
<b>B 3.0</b>	<b>Offer and Acceptance:</b>	
<b>[3.2]</b>	<b>Agreement</b> [3.6]	Currency applicable to this agreement: South African Rand (ZAR)
		The Form of Offer and Acceptance and Schedule of Deviations shall form part of the contract document and constitutes the tender acceptance and agreement
<b>B 4.0</b>	<b>Documents</b> [5.0]	
<b>[5.1]</b>	Add the following:	The documents forming the agreement are to be taken as mutually explanatory of one another and for the purpose of interpretation, the priority of the documents shall be in accordance with the following sequence: (a) the Form of Offer and Acceptance. (b) the Schedule of Deviations. (c) this Contract Data. (d) the standard JBCC building agreement as general conditions of contract. (e) the Drawings. (f) the Specifications. (g) the Bills of Quantities.  If an ambiguity or discrepancy is found in the documents, the Principal Agent shall issue any necessary clarification or instruction
<b>[5.2]</b>	The original signed <b>agreement</b> is to be held by the <b>principal agent</b> , if not, indicate by whom	Employer
<b>[5.6]</b>	Number of copies of <b>construction information</b> issued to the <b>contractor</b> at no cost:	Three (3) copies of drawings and related technical data are to be supplied to the Contractor free of charge.
	<b>Contract drawings</b>	<b>Contract drawings</b> are contained in Part C3.2 (Book 1).
<b>B 5.0</b>	<b>Employer's Agent:</b>	

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[6.0] [6.2]	Authority is delegated to the following <b>agents</b> to issue <b>contract instructions</b> and perform duties for specific aspects of the <b>works</b> [6.2]				
[6.3]	<b>Principal agent's</b> and <b>agents'</b> interest or involvement in the works other than a professional interest [6.3]				
B6.0 [10.0]	<b>INSURANCES:</b> In the event of a claim the Contractor is liable for the deductible/excess amount. Insurances shall be in place for the construction period until issue of the Practical Completion Certificate.				
[10.1.1]	<b>Insurances by Contractor</b> <table border="1"> <tr> <td>Yes/No?</td> <td>Yes</td> </tr> </table>	Yes/No?	Yes	Amount including <b>tax</b>	Deductible amount including <b>tax</b>
Yes/No?	Yes				
[10.1.2]	Contracts works insurance to be effected by: <b>CONTRACTOR</b>	<b>Contract sum</b> plus 25%	with deductible of 5%		
[10.1.3]	Supplementary/special insurance to be affected by: <b>CONTRACTOR</b>	<b>Contract sum</b> plus 25%	with deductible of 5%		
[10.1.4]	Public liability insurance to be affected by: <b>CONTRACTOR</b>	<b>R 10 000 000.00</b>	with deductible of 5%		
[10.1.5]	Removal of lateral support insurance to be affected by: <b>Not applicable</b>	<b>N/A</b>	<b>N/A</b>		
[10.1.6]	Other insurances to be affected by: <b>Not applicable</b>	<b>N/A</b>	<b>N/A</b>		
B7.0 [12.1] [12.1.2]	<b>Obligations of the employer:</b>				
[12.1.2]	Existing premises will be in use and occupied [12.1.2]	Yes/No?	Yes		
[12.1.2]	If Yes, description	The Site will be live during the construction phase with some temporary offices being provided for the staff.			
[12.1.2]	Restriction of working hours [12.1.2]	Yes/No?	No		
[12.1.3]	If Yes, description	N/A			
[12.1.3]	Natural features and known services to be preserved by the <b>contractor</b> [12.1.3]	Yes/No?	No		
[12.1.4]	If Yes, description	N/A			
[12.1.4]	Restrictions to the <b>site</b> or areas that the <b>contractor</b> may not occupy [12.1.4]	Yes/No?	No		
[12.1.10]	If Yes, description	N/A			
[12.1.10]	Supply of <b>free issue</b> [12.1.10]	Yes/No?	No		
[12.1.10]	If Yes, description	N/A			
B8.0 [14.0]	<b>Nominated Subcontractor's:</b>				
[14.0]	Yes/no?	No	If yes, description of specialisation		
[14.0]	Specialisation 1	N/A			
B9.0 [15.0]	<b>Selected Subcontractor's:</b>				
[15.0]	Yes/no?	No	If yes, description of specialisation		
[15.0]	Specialisation 1	N/A			
B10.0	<b>Direct Subcontractor's:</b>				

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[16.0]	Yes/no?	No	If yes, description of extent of works	
[12.1.11]	Extent of works [12.1.11]		N/A	
B11.0 [20.1]	<b>Description of sections:</b>			
	Sectional work completion?	No	If yes, description of sections	
	Section No.1		N/A	
	Section No.2		N/A	
	Section No.3		N/A	
B12.0 [12.1.5]	<b>Possession of site:</b>			
	Intended date of possession of the site Refer B17.0 [12.1.5; 12.2.22]	Possession of site shall be given to the Contractor after submission by the Contractor of the documents indicated in the Form of Offer and Acceptance and approval of the Contractor's Safety, Health and Environmental Plan.		
[19.0] [19.3]	<b>Practical Completion (Works as a whole):</b>			
	Yes/No?	Yes		
	Period for inspection by the principal agent [19.3]	24 Months		
[12.2.7]	The date for <b>practical completion</b> shall be the period as indicated below from the date of possession of the <b>site</b> by the <b>contractor</b> [12.2.7; 24.1]	For works as a whole:  The date for practical completion is <b>24 calendar months</b> from the date of the site handover/possession which shall include the December builder's holidays.		
[24.0]	<b>Penalty:</b>			
[24.1]	Penalty for late completion [24.1]	The penalty per calendar day shall be <b>2.75cents / R100</b> of the contract amount excluding VAT.		
[19.0] [19.3]	<b>Practical Completion (Sectional):</b>			
	Yes/No?	No		
	Period for inspection by the principal agent [19.3]	Section No.1:	N/A	
		Section No.2:	N/A	
		Section No.3:	N/A	
Section No.4:		N/A		
[12.2.7]	The date for <b>practical completion</b> shall be the period as indicated below from the date of possession of the <b>site</b> by the <b>contractor</b> [12.2.7; 24.1]	Section No.1:	N/A	
		Section No.2:	N/A	
		Section No.3:	N/A	
		Section No.4:	N/A	
[24.0]	<b>Penalty:</b>			
	Penalty for late completion	Section No.1	N/A	

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[24.1]	[24.1]	Section No.2 :	N/A		
		Section No.3 :	N/A		
		Section No.4 :	N/A		
[12.2.7]	Criteria to achieve <b>practical completion</b> not covered in the definition of <b>practical completion</b>	N/A			
B13.0 [21.0]	<b>Defects liability period:</b>				
	Extended defects liability period: Refer B17.0 [21.13]		Yes/No      No		
	If yes, description of applicable elements	13.1 13.2 13.3 13.4 13.5			
B14.0 [25.0] [25.2]	<b>Payments:</b>				
	Date of month for issue of regular <b>payment certificates</b> [25.2]	The interim payment certificate is to be issued by the <b>25<sup>th</sup></b> day of each month			
[25.3.4;26.9.5]	Contract price adjustment / Cost fluctuations [25.3.4; 26.9.5]	The contract value shall be adjusted according to CPAP if the construction period is more than 1 year. The base month for the application of CPAP is the month of closing of the tender.			
	If yes, method to calculate	Haylett Formula			
	<b>Employer</b> shall pay the <b>contractor</b> within: [25.10]	Thirty (30) <b>Calendar days</b>			
B15.0 [30.0] [30.3.1;30.10]	<b>Dispute resolution:</b>				
	Adjudication [30.6.1; 30.10] Name of nominating body	N/A			
[30.6.2]	Applicable rules for adjudication [30.6.2]	N/A			
[30.7.4;30.10]	Arbitration [30.7.4; 30.10] If Yes, name of nominating body * If No, then dispute will be referred to litigation	<table border="1"> <tr> <td>Yes/No?</td> <td>Yes</td> </tr> </table> The dispute resolution body shall be the Association of Arbitrators (Southern Africa).		Yes/No?	Yes
Yes/No?	Yes				
Applicable rules for arbitration [30.7.5]	Association of Arbitrators: Rules for Conduct of Arbitrators as amended from time to time.				
B16.0 [P2.2]			<b>JBCC® General Preliminaries - Selections:</b>		
	Provisional bills of quantities [P2.2]	Yes/No?	No		
[P2.3]	Availability of construction information [P2.3]	Yes/No?	Yes		
[P3.1]	Previous work - dimensional accuracy - details of previous contract(s) [P3.1]	N/A			
[P3.2]	Previous work - defects - details of previous contract(s) [P3.2]	N/A			



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[P3.3]	Inspection of adjoining properties - details [P3.3]		N/A	
[P4.1]	Handover of site in stages - specific requirements [P4.1]		N/A	
[P4.2]	Enclosure of the works - specific requirements [P4.2]		YES	
[P4.3]	Geotechnical and other investigations - specific requirements [P4.3]		YES	
[P4.5]	Existing premises occupied - details [P4.5]		YES	
[P4.6]	Services - known - specific requirements [P4.6]		N/A	
[P8.1]	Water [8.1]	By Contractor	Yes/No?	Yes
		By Employer	Yes/No?	No
		By Employer – metered	Yes/No?	No
[P8.2]	Electricity [8.2]	By Contractor	Yes/No?	Yes
		By Employer	Yes/No?	No
		By Employer – metered	Yes/No?	No
[P8.3]	Ablution and welfare facilities [8.3]	By Contractor	Yes/No?	Yes
		By Employer	Yes/No?	No
[P8.4]	Communication facilities - specific requirements [P8.4]		YES	
[P11.1]	Protection of the works - specific requirements [P11.1]		YES	
[P11.2]	Protection / isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b> - specific requirements [P11.2]		YES	
[P11.5]	Disturbance - specific requirements [P11.5]		N/A	
[P11.6]	Environmental disturbance - specific requirements [P11.6]		N/A	

<b>B17.0</b>	<b>Changes made to JBCC® documentation</b>
<b>1.1</b>	<p><b>Definitions</b></p> <p><b>AGREEMENT:</b> The completed Form of Offer and Acceptance, the completed <b>JBCC®</b> Principal Building Agreement and <b>JBCC® contract data for organs of state and other public sector bodies</b>, the <b>contract drawings</b>, the <b>priced document</b> and any other documents reduced to writing and signed by the authorized representatives of the <b>parties</b></p> <p><b>CONSTRUCTION PERIOD:</b> The period commencing on the date of possession of the <b>site</b> by the <b>contractor</b> and ending on the date of <b>practical completion</b></p> <p><b>CONTRACT DATA FOR ORGANS OF STATE AND OTHER PUBLIC SECTOR BODIES:</b> The document listing the Organs of State and other Public Sector Bodies' requirements and the project specific information</p> <p><b>INTEREST:</b> The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance</p>

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	<p>Management Act, 1999 (Act No 1 of 1999), calculated as simple interest, in respect of debts owing to the State, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975), calculated as simple interest, in respect of debts owing by the State</p> <p><b>PRINCIPAL AGENT:</b> The person or entity appointed by the <b>employer</b> and named in the <b>contract data for organs of state and other public sector bodies</b>. In the event of a <b>principal agent</b> not being appointed, then all the duties and obligations of a <b>principal agent</b> as detailed in the <b>agreement</b> shall be fulfilled by the employer's representative as named in the <b>contract data for organs of state and other public sector bodies</b></p>
<b>3.0</b>	<p><b>Offer and Acceptance</b></p> <p>Amend 3.3 to read as follows:</p> <p>This <b>agreement</b> shall come into force on the date as stated on the Form of Offer and Acceptance and continue to be of force and effect until the end of the <b>latent defects</b> liability period [22.0] notwithstanding termination [29.0] or the certification of <b>final completion</b> [21.0] and final payment [25.0]</p>
<b>6.0</b>	<p><b>Employer's Agents</b></p> <p>Add the following as 6.7:</p> <p>In terms of the clauses listed hereunder, the <b>employer</b> has retained its authority and has not given a mandate to the <b>principal agent</b>. The <b>employer</b> shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4</p>
<b>9.0</b>	<p><b>Indemnities</b></p> <p>9.2.7: Add the following to the end of the first sentence: "... due to no fault of the <b>contractor</b>"</p>
<b>10.0</b>	<p><b>Insurances</b></p> <p>Add the following as 10.1.5.1:</p> <p><b>High Risk Insurance</b></p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:</p> <p><b>10.1.5.1.1 Damage to the works</b></p> <p>The contractor shall, from the date of possession of the <b>site</b> until the date of the <b>certificate of practical completion</b>, bear the full risk of and hereby indemnifies and holds harmless the <b>employer</b> against any damage to and/or destruction of the <b>works</b> consequent upon a catastrophic ground movement as mentioned above. The <b>contractor</b> shall take such precautions and security measures and other steps for the protection of the <b>works</b> as he may deem necessary</p> <p>When so instructed to do so by the <b>principal agent</b>, the <b>contractor</b> shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the <b>works</b> and to rebuild, restore, replace and/or repair the <b>works</b>, at the <b>contractor's</b> own costs</p> <p><b>10.1.5.1.2 Injury to persons or loss of or damage to property</b></p> <p>The <b>contractor</b> shall be liable for and hereby indemnifies and holds harmless the <b>employer</b> against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The <b>contractor</b> shall be liable for and hereby indemnifies the <b>employer</b> against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the <b>site</b>, whether belonging to or under the control of the <b>employer</b> or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p>

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	<p>10.1.5.1.3</p> <p>It is the responsibility of the <b>contractor</b> to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the <b>contractor's</b> obligations in terms of the contract, the <b>contractor</b> shall, within twenty-one (21) <b>calendar days</b> of the date of possession of the site, but before commencement of the <b>works</b>, submit to the <b>employer</b> proof of such insurance policy, if requested to do so</p> <p>10.1.5.1.4</p> <p>The <b>employer</b> shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the <b>contractor's</b> default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the <b>contractor</b> or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the <b>employer</b> and the <b>contractor</b> and for this purpose all these contracts shall be considered one indivisible whole</p>
<b>11.0</b>	<p><b>Securities</b></p> <p>Amend 11.10 to read as follows:</p> <p>There shall be no lien or right of retention held by any <b>contractor</b> in respect of the <b>works</b> executed on <b>site</b></p>
<b>12.0</b>	<p><b>Obligations of the Parties</b></p> <p>Amend 12.1.5 to read as follows:</p> <p>Give possession of the <b>site</b> to the <b>contractor</b> within ten (10) <b>working days</b> of the <b>contractor</b> complying with the terms of 12.2.22</p> <p>12.2.2: Not applicable</p> <p>Add the following as 12.2.22:</p> <p>Within fifteen (15) <b>working days</b> of the date of the <b>agreement</b> submit to the <b>principal agent</b> an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p>
<b>19.0</b>	<p><b>Practical Completion</b></p> <p>19.5: Delete the words "subject to the <b>contractor's</b> lien or right of continuing possession of the <b>works</b> where this has not been waived"</p>
<b>21.0</b>	<p><b>Defects Liability Period and Final Completion</b></p> <p>Add the following as 21.13:</p> <p>The ninety (90) <b>calendar days</b> defects liability period for the <b>works</b> [21.1 is applicable]</p>
<b>25.0</b>	<p><b>Payment</b></p> <p>25.7.5: Not applicable</p> <p>25.10: Delete the words "and/or <b>compensatory interest</b>"</p> <p>25.14.2: Not applicable</p>
<b>27.0</b>	<p><b>Recovery of Expense and/or Loss</b></p> <p>27.1.5: Not applicable</p>

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<b>29.0</b>	<p><b>Termination</b></p> <p>Add the following after 29.1.3:</p> <p>or where ...</p> <p>29.1.4: The <b>contractor's</b> estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>29.1.5: The <b>contractor</b> has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p>
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### C.1.2 Contract Data

The Contractor is advised to read the **JBCC Series 2000 Principal Building Agreement (Edition 6.2 May 2018)** published by the Joint Building Contracts Committee, in order to understand the implications of this Data which is required to be completed. Copies of these documents may be obtained from the **Association of South African Quantity Surveyors (011) 315 4140**, the **Master Builders Association (011) 205 9000**, the **South African Association of Consulting Engineers (011) 463 2022** or the **South African Institute of Architects (011) 486 0684**.

Each item of data given below is cross-referenced to the clause in the JBCC Principal Agreement to which it mainly applies.

## Part 2: Data provided by the Contractor

JBCC Clause	Data				
C1.0	SECURITIES				
[11.0]	Guarantee for construction: Select Option A or B				Select A or B
[11.1.1]	Option A	Guarantee for construction (variable) by contractor			
[11.1.2]	Option B	Guarantee for construction (fixed) by contractor			
[11.5.1;11.10]	Guarantee for payment by employer - Not applicable				
[11.2.2; 11.3]	Advance payment, subject to a guarantee for advance payment - Not applicable				
C2.0	Contractor's annual holiday periods during the construction period				
	Year 1 contractor's annual holiday period	Start date		End date	
	Year 2 contractor's annual holiday period	Start date		End date	
	Year 3 contractor's annual holiday period	Start date		End date	
C3.0	Payment of preliminaries				

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[25.0]	<b>Contractor's selection:</b> Select Option A or B		Select A or B
	<p>Where the <b>contractor</b> does not select an option, Option A shall apply :</p> <p><b>Payment methods :</b></p> <p><u>Option A :</u></p> <p>The <b>preliminaries</b> shall be paid in accordance with an amount prorated to the value of the <b>works</b> executed in the same ratio as the amount of the <b>preliminaries</b> to the <b>contract sum</b>, which <b>contract sum</b> shall exclude the amount of <b>preliminaries</b>. Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio</p> <p><u>Option B :</u></p> <p>The <b>preliminaries</b> shall be paid in accordance with an amount agreed by the <b>principal agent</b> and the <b>contractor</b> in terms of the <b>priced document</b> to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time-related charge shall be assessed by the <b>principal agent</b> and adjusted from time to time as may be necessary to take into account the rate of progress of the <b>works</b></p> <p><b>Lump sum contract :</b></p> <p>Where the amount of <b>preliminaries</b> is not provided it shall be taken as 7.5% (seven and a half per cent) of the <b>contract sum</b>, excluding contingency sum(s) and any provision for cost fluctuations</p>		
<b>C4.0</b>	<b>Adjustment of preliminaries [26.9.4]</b>		
[26.9.4]	<b>Contractor's selection:</b> Select Option A or B		Select A or B
	<p><b>Provision of particulars</b></p> <p>The <b>contractor</b> shall provide the particulars for the purpose of the adjustment of <b>preliminaries</b> in terms of his selection. Where completion in <b>sections</b> is required, the <b>contractor</b> shall provide an apportionment of <b>preliminaries</b> per <b>section</b></p> <p><u>Option A :</u></p> <p>An allocation of the <b>preliminaries</b> amounts into Fixed, Value-related and Time-related amounts as defined for adjustment method Option A below, within fifteen (15) <b>working days</b> of the date of acceptance of the tender</p> <p><u>Option B :</u></p> <p>A detailed breakdown of the <b>preliminaries</b> amounts within fifteen (15) <b>working days</b> of possession of the <b>site</b>. Such breakdown shall include, inter alia, the administrative and supervisory staff, the use of <b>construction equipment</b>, establishment and dis-establishment charges, insurances and guarantees, all in terms of the <b>programme</b></p>		
	<p><b>Adjustment methods</b></p> <p>The amount of <b>preliminaries</b> shall be adjusted to take account of the effect which changes in time and/or value have on <b>preliminaries</b>. Such adjustment shall be based on the particulars provided by the <b>contractor</b> for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of <b>preliminaries</b> and shall apply notwithstanding the actual employment of resources by the <b>contractor</b> in the execution of the <b>works</b></p> <p><u>Option A :</u></p> <p>The <b>preliminaries</b> shall be adjusted in accordance with the allocation of <b>preliminaries</b> amounts provided by the <b>contractor</b>, apportioned to <b>sections</b> where completion in <b>sections</b> is required</p> <p>Fixed - An amount which shall not be varied</p> <p>Value-related - An amount varied in proportion to the <b>contract value</b> as compared to the <b>contract sum</b>. Both the <b>contract sum</b> and the <b>contract value</b> shall exclude the amount of <b>preliminaries</b>, contingency sum(s) and any provision for cost fluctuations</p> <p>Time-related - An amount varied in proportion to the number of <b>calendar days</b> extension to the date of <b>practical completion</b> to which the <b>contractor</b> is entitled with an adjustment of the</p> <p><b>contract value</b> [23.2; 23.3] as compared to the number of <b>calendar days</b> in the initial <b>construction period</b> [26.9.4]</p>		

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	<p><u>Option B :</u></p> <p>The adjustment of <b>preliminaries</b> shall be based on the number of <b>calendar days</b> extension to the date of <b>practical completion</b> to which the <b>contractor</b> is entitled with an adjustment of the <b>contract value</b> [23.2; 23.3] as compared to the number of <b>calendar days</b> in the initial <b>construction period</b> [26.9.4]</p> <p>The adjustment shall take into account the resources as set out in the detailed breakdown of the <b>preliminaries</b> for the period of construction during which the delay occurred</p>
	<p><b>Failure to provide particulars within the period stated</b></p> <p><u>Option A :</u></p> <p>Where the allocation of <b>preliminaries</b> amounts for Option A is not provided, the following allocation of <b>preliminaries</b> amounts shall apply:</p> <p>Fixed - Ten per cent (10%)</p> <p>Value-related - Fifteen per cent (15%)</p> <p>Time-related - Seventy-five per cent (75%)</p> <p>Where the apportionment of the <b>preliminaries</b> per <b>section</b> is not provided, the categorized amounts shall be prorated</p> <p><u>Option B:</u></p> <p>Where the detailed breakdown of <b>preliminaries</b> amounts for Option B is not provided, Option A shall apply</p> <p><b>Lump sum contract</b></p> <p>Where the amount of <b>preliminaries</b> is not provided it shall be taken as 7.5% (seven and a half per cent) of the <b>contract sum</b>, excluding contingency sum(s) and any provision for cost fluctuations</p>

### **C 1.3 Construction Guarantee (Pro-Forma Forms)**

TO BE COMPLETED BY THE SUCCESSFUL TENDERER (AFTER THE AWARD)

### C 1.3.1 CONSTRUCTION GUARANTEE

The **Contractor** shall have the right to choose the Construction Guarantee as stated in the Contract Data

The Construction Guarantee options are:

i. Variable Construction Guarantee of 10% of the Contract Sum. Yes ☐  
No ☐

ii. Fixed construction guarantee and Payment Reduction Yes ☐  
No ☐

A Signed letter of Intent to be submitted with the returnable document

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to below. No alterations or amendments of the wording of the pro-forma will be accepted.

The security guarantee to be provided shall not contain an expiry date.



### C1.3 CONSTRUCTION GUARANTEE (PRO-FORMA)

#### GUARANTOR DETAILS AND DEFINITIONS

Guarantor means .....

Physical address .....

.....

Guarantor's signatory 1 ..... Capacity .....

Guarantor's signatory 2 ..... Capacity .....

Employer means **Coega Development Corporation (Pty) Ltd**

Contractor means .....

Principal Agent means .....

Works means. ....

Site means. ....

Agreement means **The JBCC Series 2000 Principal Building Agreement and Annexures**

Contract Sum means The accepted amount inclusive of tax of R.....

Amount in words.....

Guaranteed Sum means The maximum aggregate amount of R .....

Amount in words.....

Construction Guarantee (Insert Variable or Fixed).....

## AGREEMENT DETAILS

Sections: Total sections (*No or n/a*) .....

Last section (No / Identification or n/a).....

Principal Agent issues: Interim payment certificates, Final payment certificate, Practical completion certificate/s and Final completion certificate/s

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## VARIABLE CONSTRUCTION GUARANTEE

1.1 Where a variable Construction Guarantee in terms of the Agreement has been selected this 1.0 with 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the diminishing amounts of the Guaranteed Sum as follows:

### GUARANTOR'S LIABILITY

1.1.1 Maximum Guaranteed Sum (not exceeding 10.0% of the contract sum) in the amount of:

.....

Amount in words.....

### PERIOD OF LIABILITY

From and including the date of issue of this Construction Guarantee and up to and including the date of the interim payment certificate certifying in excess of 50% of the contract sum

### GUARANTOR'S LIABILITY

1.1.2 Reducing to the Guaranteed Sum (not exceeding 6.0% of the contract sum) in the amount of:

.....

Amount in words.....

### PERIOD OF LIABILITY

From and including the day after the date of the aforesaid interim payment certificate and up to and including the date of the only practical completion certificate or last practical completion certificate where there are sections

### GUARANTOR'S LIABILITY

1.1.3 Reducing to the Guaranteed Sum (not exceeding 4.0% of the contract sum) in the amount of:

.....

Amount in words.....

**PERIOD OF LIABILITY**

From and including the day after the date of the applicable practical completion certificate and up to and including the date of the only final completion certificate or last final completion certificate where there are sections

**GUARANTOR'S LIABILITY**

1.1.4 Reducing to the Guaranteed Sum (not exceeding 2.0% of the contract sum) in the  
amount of: .....  
Amount in words.....

**PERIOD OF LIABILITY**

From and including the day after the date of the applicable final completion certificate and up to and including the date of the final payment certificate where payment is due to the Contractor, whereupon this Construction Guarantee shall expire. Where the final payment certificate reflects payment due to the Employer, this Construction Guarantee shall expire upon payment of the full amount certified

1.2 For avoidance of doubt the Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the period in question

**2.0 FIXED CONSTRUCTION GUARANTEE**

2.1 Where a fixed Construction Guarantee in terms of the Agreement has been selected this 2.0 with 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:

**GUARANTOR'S LIABILITY**

1.1.1 Maximum Guaranteed Sum (not exceeding 5.0% of the contract sum) in the amount  
of:.....  
Amount in words.....

**PERIOD OF LIABILITY**

From and including the date of issue of this Construction Guarantee and up to and including the date of the only final completion certificate or the last final completion certificate where there are sections, upon which this Construction Guarantee shall expire

3.0 The Guarantor hereby acknowledges that:

3.1 Any reference in this Guarantee to the Agreement is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship.

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- 3.2 Its obligation under this Guarantee is restricted to the payment of money.
- 4.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
- 4.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an interim or final payment certificate has not been made in terms of the Agreement and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2
- 4.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the first written demand in terms of 4.1 and that the sum certified has still not been paid therefore the Employer calls up this Construction Guarantee and demands payment of the sum certified from the Guarantor
- 4.3 A copy of the said payment certificate which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0
- 5.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0 , the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Construction Guarantee stating that:
- 5.1 The Agreement has been terminated due to the Contractor's default and that the Construction Guarantee is called up in terms of 5.0. The demand shall enclose a copy of the notice of termination; or
- 5.2 A business rescue, provisional sequestration or liquidation OFFICE order has been granted against the Contractor and that the Construction Guarantee is called up in terms of 5.0. The demand shall enclose a copy of the OFFICE order or Practitioner's notice of termination of business rescue or rejection of business rescue plan in terms of the Companies Act
- 6.0 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0
- 7.0 Where the Guarantor is a registered insurer and has made payment in terms of 5.0, the Employer shall upon the date of issue of the final payment certificate submit an expense account to the Guarantor showing how all monies received in terms of the Construction Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Construction Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund
- 8.0 Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor

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- 9.0 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim his release from this Construction Guarantee on account of any conduct alleged to be prejudicial to the Guarantor
- 10.0 The Guarantor chooses the physical address as stated above for all purposes in connection herewith
- 11.0 This Construction Guarantee is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or payment in full of the Guaranteed Sum whichever is the earlier, where after no claims will be considered by the Guarantor. The original of this Construction Guarantee shall be returned to the Guarantor after it has expired
- 12.0 This Construction Guarantee, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining a COURT order
- 13.0 Where this Construction Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's OFFICES Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's OFFICE of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's OFFICE

Signed at ..... Date .....

Guarantor's Signatory 1 ..... Guarantor's Signatory 2 .....

Witness ..... Witness .....

Guarantor's seal or stamp

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**C 1.3.2. AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993)**

THIS AGREEMENT made at .....

on this the ..... day of ..... in the year .....

between Coega Development Corporation (Pty) Ltd (hereinafter called "the Employer") of the one part, herein represented by

in his capacity as .....

and .....

(hereinafter called "the Mandatory") of the other part, herein represented by .....

.....

in his capacity as .....

WHEREAS the Employer is desirous that certain works be constructed, "**ELLIOT MAGISTRATE COURT: PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF THE ENTIRE FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF ADDITIONAL ACCOMMODATION**" and has accepted a Tender by the Mandatory for the construction, completion and maintenance of such Works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);

**NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. The Mandatory shall execute the work in accordance with the Contract Documents pertaining to this Contract.
2. This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Principal Agent requiring him to commence the execution of the Works, to either
  - (a) the date of the Certificate of Practical Completion issued in terms of Sub-Clause 24.4 of the JBCC Series 2000 Principal Building Agreement (Edition 6.2, May 2018), or
  - (b) the date of termination of the Contract in terms of Clause 26.6 of the JBCC Series 2000 Principal Building Agreement (Edition 6.2, May 2018),
3. The Mandatory declares himself to be conversant with the following:
  - (a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as "The Act", together with its amendments and with special reference to the following Sections of The Act:
    - (i) Section 8 : General duties of employers to their employees;

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- (ii) Section 9 : General duties of employers and self-employed persons to persons other than employees;
    - (iii) Section 37 : Acts or omissions by employees or mandatories, and
    - (iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement.
  - (b) The procedures and safety rules of the Employer as pertaining to the Mandatory and to all his subcontractors.
4. The Mandatory agrees to execute all the Works forming part of this Contract and to operate and utilise all machinery, plant and equipment in accordance with the Act.
5. The Mandatory is responsible for the compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.
6. The Mandatory warrants that all his and his subcontractors' workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act, 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.
7. The Mandatory undertakes to ensure that he and/or subcontractors and/or their respective employers will at all times comply with the following conditions:
- (a) The Mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Mandatory shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Mandatory obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
  - (b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Mandatory to the Department of Labour as well as to the Employer.
  - (c) The Employer will further be provided with copies of all written documentation Relating to any incident
  - (d) The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the Mandatory and/or his employees and/or his subcontractors.

In witness thereof the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

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SIGNATURE OF SIGNATORY : .....

WITNESS: 1 ..... 2. ....

NAME (in capitals): 1 ..... 2. ....

**PART C2: PRICING DATA**

## C2.1 Pricing Instructions

1. The JBCC Series 2000 Principal Building Agreement (Edition 6.2, May 2018) Conditions of Contract, the Special Conditions of Contract, the Specifications, the Model Preambles for Trades and Description of Materials and Workmanship to All Trades and the Drawings shall be read in conjunction with the Bills of Quantities.

2 The Bills of Quantities comprise items covering the Contractor's profit and costs of general liabilities and of the construction of all Temporary and Permanent Works.

Although the Tenderer is at liberty to insert a rate of his own choosing for each item in the Bills of Quantities, he should note the fact that the Contractor is entitled, under various circumstances, to payment for additional work carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates the Contractor inserted in the Bills of Quantities.

3 Descriptions in the Bills of Quantities may differ from those in the Standardized and Project Specifications. The descriptions and specifications in the Bills of Quantities will however take preference over these specifications. No consideration will be given to any claim by the Contractor submitted on such a basis. Except for SANS 1200 A and 1200 AB all measurement and payment clauses (clause 8) of the standard specifications are deleted. The Bills of Quantities have been drawn up generally in accordance with the latest issue of Standard System of Measuring Building Work <sup>1</sup>. Should any requirement of the measurement and payment clause of the appropriate Standardized or Project Specification(s) be contrary to the terms of the Bills of Quantities or, when relevant, to the Standard System of Measuring Building Work, the requirement of the Standard System of Measuring Building Work shall prevail.

4 Unless stated to the contrary, items are measured net in accordance with the Drawings without any allowance having been made for waste.

5 The amounts and rates to be inserted in the Bills of Quantities shall be the fully inclusive amounts to the Employer for the work described under the several items. Such amounts shall cover all the costs and expenses that may be required in and for the construction of the work described, and shall cover the costs of all general risks, profits, taxes (but excluding value-added tax), liabilities and obligations set forth or implied in the documents on which the Tender is based.

6 An amount or rate shall be entered against each item in the Bills of Quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the Bills of Quantities.

The Tenderer shall also fill in a rate against the items where the words "rate only" appear in the amount column. Although no work is foreseen under these items and no quantities are consequently given in the quantity column, the tendered rates shall apply should work under these items actually be required.

Should the Tenderer group a number of items together and tender one sum for such group of items, the single tendered sum shall apply to that group of items and not to each individual item, or should he indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed to be nil.

The tendered rates, prices and sums shall, subject only to the provisions of the Conditions of Contract, remain valid irrespective of any change in the quantities during the execution of the Contract.

7 The quantities of work as measured and accepted and certified for payment in accordance with the Conditions of Contract, and not the quantities stated in the Bills of Quantities, will be used to determine payments to the Contractor. The validity of the Contract shall in no way be affected by differences between the quantities in the Bills of Quantities and the quantities certified for payment.

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The standard system of measurement of building work published by the Association of South African Quantity Surveyors

**Ordering of materials** is not to be based on the Bills of Quantities, but only on information issued for construction purposes.

- 8 For the purposes of this Bills of Quantities, the following words shall have the meanings hereby assigned to them:

Unit	:	The unit of measurement for each item of work as defined in the Standard System of Measuring Builders Work
Quantity	:	The number of units of work for each item
Rate	:	The payment per unit of work at which the Tenderer tenders to do the work
Amount	:	The quantity of an item multiplied by the tendered rate of the (same) item
Item or Sum	:	An amount tendered for an item or sum, the extent of which is described in the Bills of Quantities, the Specifications or elsewhere, but of which the quantity of work is not measured in units

- 9 The units of measurement indicated in the Bills of Quantities are metric units. The following abbreviations may appear in the Bills of Quantities:

Item	=	1 off
No	=	Units measured in number
mm	=	millimetre
m	=	metre
km	=	kilometre
m <sup>2</sup>	=	square metre
m <sup>3</sup>	=	cubic metre
m <sup>3</sup> -km	=	cubic metre-kilometre
t	=	ton (1 000 kg)
PC Sum	=	Prime Cost Sum
Prov Sum	=	Provisional Sum

- 10 The Tenderer shall enter extended totals for each summary page and final summary in the Bills of Quantities in black ink.
- 11 These Bills of Quantities contain pages numbered consecutively in each Bill as indicated in the Index. Before the Contractor submits his Tender he should check the number of pages in every Bill and if any are found missing or duplicated, or the figures or writing indistinct, or the Bills of Quantities contain any obvious errors, he should apply to the Engineer at once and have same rectified, as no liability whatsoever will be admitted by the Engineer in the respect of errors in the Tender due to the foregoing.
- 12 No alteration, erasure or addition is to be made in the text of the Bills of Quantities. Should any alteration, erasure or addition be made, it will not be recognized but the original wording of the Bills of Quantities will be adhered to.
- 13 Quantities where indicated as provisional are measured provisional and are subject to re-measure on completion of the project.
- 14 The totals (Value Added Tax excluded) on the final summaries are to be transferred to the Final Summary of the Provisional Bills of Quantities in Volume 2 for inclusion in the Total Tender Sum.
- 15 Completed Bills of Quantities for all trades clearly filled in, legible and in permanent ink are to be submitted with the tender offer

## C2.2 Bill of Quantities

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<u>Item</u>	<u>Amount</u>
<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>MEANING OF TERMS "TENDER / TENDERER"</u></b></p> <p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p>	
Carried to Collection	R
<p>Section No. 1 - Preliminaries</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>CLARENCE BOBIE INCORPORATED</p>	

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<u>Item</u>	<u>Amount</u>
<b><u>PREAMBLES FOR TRADES</u></b>	
<b><u>PREAMBLES</u></b>	
For Preambles refer to "Department of Public Works: PW371 - A Edition 2.0 - Construction Works, General Specifications" as published by the Department of Public Works (2nd Edition July 2013) shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained.	
Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles	
The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications	
<b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b>	
Section A : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> Principal Building Agreement	
Section B : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> General Preliminaries	
Section C : Any special clauses to meet the particular circumstances of the project	
<b><u>PRICING OF PRELIMINARIES</u></b>	
Should the <b>contractor</b> select Option A in the <b>contract data</b> for the adjustment of <b>preliminaries</b> , the amounts entered against the relevant items in these <b>preliminaries</b> are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)	
<b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b>	
Carried to Collection	
R	
Section No. 1 - Preliminaries	
Bill No. 1	
Preliminaries	
CLARENCE BOBIE INCORPORATED	

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<u>Item</u>		<u>Amount</u>
	<b><u>Interpretation (A1-A7)</u></b>	
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>Clause 1.1 Definition of "<b>Agreement</b>" is amended by replacing it with the following:</p> <p><b>"AGREEMENT"</b> means the completed Form of Offer and Acceptance, the completed <b>JBCC</b> Principal Building Agreement and <b>JBCC contract data for organs of state and other public sector bodies</b>, the <b>contract drawings</b>, the <b>priced document</b> and any other documents reduced to writing and signed by the authorised representatives of the <b>parties</b>.</p> <p>Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:</p> <p><b>"CONSTRUCTION PERIOD"</b> means the period commencing on the date of possession of the <b>site</b> by the <b>contractor</b> and ending on the date of <b>practical completion</b></p> <p>Clause 1.1 Definition of "<b>Interest</b>" is amended by replacing it with the following:</p> <p><b>"INTEREST"</b> means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), calculated as simple interest, in respect of debts owing to the State, and will be the rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975), calculated as simple interest, in respect of debts owing by the State</p> <p>Clause 1.1 Definition of "<b>Principal Agent</b>" is amended by replacing it with the following:</p> <p><b>"PRINCIPAL AGENT"</b> means the person or entity appointed by the <b>employer</b> and named in the contract data for organs of state and other public sector bodies. In the event of a <b>principal agent</b> not being appointed, then all the duties and obligations of a <b>principal agent</b> as detailed in the <b>agreement</b> shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies</p> <p><b>Pricing of bills of quantities</b></p>	
	Carried to Collection	R
	Section No. 1 - Preliminaries	
	Bill No. 1	
	Preliminaries	
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**ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Amount</u>
<p>The <b>contractor</b> 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 where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this <b>agreement</b>. Value Added Tax (VAT) is to be separately stated on the summary page of these <b>bills of quantities</b></p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these <b>bills of quantities</b> and no claim for any extras arising out of the <b>contractor's</b> omission to price any item will be entertained</p> <p>Prices for all <b>construction equipment</b>, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p> <p><b>Abbreviated descriptions</b></p> <p>The items in these <b>bills of quantities</b> 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 <b>contractor</b> shall, before submission of his tender, call for a written directive from the <b>principal agent</b>, failing which it shall be assumed that the <b>contractor</b> has allowed in his pricing for materials and workmanship in terms of international best practice</p> <p><b>Legal status of contractor</b></p> <p>If the <b>contractor</b> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> <li>1. These persons are deemed to be jointly and severally liable to the <b>employer</b> for the performance of this <b>agreement</b></li> <li>2. These persons shall notify the <b>employer</b> of their leader who has assigned authority to bind the <b>contractor</b> and each of these persons</li> <li>3. The <b>contractor</b> shall not alter its composition or legal status without the prior written consent of the <b>employer</b></li> </ol>	
Carried to Collection	R
Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED	

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Item			Amount
	F:..... V:..... T:..... <b><u>Clause 2.0 - Law, regulations and notices</u></b> Clause 2.0 F:..... V:..... T:..... <b><u>Clause 3.0 - Offer and acceptance</u></b>  Clause 3.0		
1	Amend 3.3 to read as follows:  This <b>agreement</b> shall come into force on the date as state on the Form of Offer and Acceptance and continue to be of force and effect until the end of the <b>latent defects</b> liability period [22.0] notwithstanding termination [29.0] or the certification of <b>final completion</b> [21.0] and final payment [25.0]  F:..... V:..... T:.....  <b><u>Clause 4.0 - Cession and assignment</u></b> <b><u>F:..... V:..... T:.....</u></b>		
2	Clause 4.0  F:..... V:..... T:.....  <b><u>Clause 5.0 - Documents</u></b>  <b>Value Added Tax</b>  Provision is made in the summary page of these <b>bills of quantities</b> for the inclusion of Value Added Tax (VAT)  F:..... V:..... T:.....		
		Carried to Collection	R
	Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED		

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<u>Item</u>	<u>Amount</u>
<p><b><u>Clause 6.0 - Employer's agents</u></b></p> <p>Clause 6.0</p> <p>Add the following as 6.7: In terms of the clauses listed hereunder, the <b>employer</b> has retained its authority and has not given a mandate to the <b>principal agent</b>. The <b>employer</b> shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6. 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4.</p> <p>The authority of the <b>principal agent</b> to issue <b>contract instructions</b> [17.1] and perform duties for specific aspects of the <b>works</b> is delegated to <b>agents</b> as follows [6.2].</p> <p><b><u>1. Architect</u></b></p> <p>1.1 Duties [6.2] :</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the <b>works</b></p> <p>1.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>1.2.1 No <b>contract instructions</b> delegated to the architect</p> <p><b><u>2. Quantity Surveyor and Principal Agent</u></b></p> <p>2.1 Duties [6.2] :</p> <p>The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works, including quality inspection.</p> <p>2.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>2.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>2.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED</p>	<p style="text-align: right;">R</p>

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<u>Item</u>	<u>Amount</u>
2.2.3 The <b>site</b> [13.0]	
2.2.4 Compliance with the <b>law</b> , regulations and bylaws [2.1]	
2.2.5 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>	
2.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
2.2.7 Removal or re-execution of work	
2.2.8 Removal or substitution of any <b>materials and goods</b>	
2.2.9 Protection of the <b>works</b>	
2.2.10 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]	
2.2.11 Rectification of <b>defects</b> [21.2]	
2.2.12 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>	
2.2.13 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b>	
2.2.14 Appointment of a <b>subcontractor</b> [14.0; 15.0]	
2.2.15 Work by <b>direct contractors</b> [16.0]	
2.2.16 On suspension or termination, protection of the <b>works</b> , removal of <b>construction equipment</b> and surplus <b>materials and goods</b> [29.0]	
<b>3. Civil and structural engineer</b>	
3.1 Duties [6.2] :	
The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the <b>works</b>	
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<u>Item</u>	<u>Amount</u>
<p>4.1 Duties [6.2] :</p> <p>The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> 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 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>4.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>4.2.3 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>4.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>4.2.6 Removal or re-execution of work</p> <p>4.2.7 Removal or substitution of any <b>materials and goods</b></p> <p>4.2.8 Protection of the <b>works</b></p> <p>4.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p> <p>4.2.10 Rectification of <b>defects</b> [21.2]</p> <p>4.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p> <p>4.2.12 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b></p>	
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<u>Item</u>	<u>Amount</u>
<p><b>5. Electrical engineer</b></p> <p>5.1 Duties [6.2] :</p> <p>The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions</p> <p>5.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>5.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>5.2.3 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>5.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>5.2.6 Removal or re-execution of work</p> <p>5.2.7 Removal or substitution of any <b>materials and goods</b></p> <p>5.2.8 Protection of the <b>works</b></p> <p>5.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p> <p>5.2.10 Rectification of <b>defects</b> [21.2]</p> <p>5.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p>	
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<u>Item</u>	<u>Amount</u>
5.2.12 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b>	
<b>6. <u>Wet services engineer</u></b>	
6.1 Duties [6.2] :	
The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the <b>works</b>	
6.2 <b>Contract instructions</b> [6.2; 17.1] :	
6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement	
6.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b>	
6.2.3 Compliance with the <b>law</b> , regulations and bylaws [2.1]	
6.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>	
6.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
6.2.6 Removal or re-execution of work	
6.2.7 Removal or substitution of any <b>materials and goods</b>	
6.2.8 Protection of the <b>works</b>	
6.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]	
6.2.10 Rectification of <b>defects</b> [21.2]	
6.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>	
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<u>Item</u>	<u>Amount</u>
6.2.12 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b>	
<b>7. <u>Fire consultant</u></b>	
7.1 Duties [6.2] :	
The fire consultant is responsible for all aspects of rational fire design and quality inspection of the <b>works</b>	
7.2 <b>Contract instructions</b> [6.2; 17.1] :	
7.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement	
7.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b>	
7.2.3 Compliance with the <b>law</b> , regulations and bylaws [2.1]	
7.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>	
7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
7.2.6 Removal or re-execution of work	
7.2.7 Removal or substitution of any <b>materials and goods</b>	
7.2.8 Protection of the <b>works</b>	
7.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]	
7.2.10 Rectification of <b>defects</b> [21.2]	
7.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>	
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<u>Item</u>	<u>Amount</u>
7.2.12 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b>	
<b>8. Health and safety consultant</b>	
8.1 Duties [6.2] :	
The health and safety consultant is responsible for all aspects of health and safety of the <b>works</b> . 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 <b>works</b> . They shall:	
8.1.1 Act as the <b>employer's agent</b> in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended	
8.1.2 Prepare and update the health and safety specification for the <b>works</b>	
8.1.3 Agree with the <b>contractor</b> the health and safety plan for the <b>works</b>	
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 <b>works</b> where the agreed specification or plan is not adhered to	
F:..... V:..... T:.....	
1 Clause 7.0 - Design responsibility	
F:..... V:..... T:.....	
<b><u>Insurances and securities (A8-A11)</u></b>	
2 Clause 8.0 - <b>Works</b> risk	
F:..... V:..... T:.....	
3 Clause 9.0 - Indemnities	
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1	<p>Clause 10.0 - Insurances</p> <p>Add the following as 10.1.5.1:</p> <p>Hi Risk Insurance</p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sink-holes or doline formation the following will apply:</p> <p>10.1.5.1.1 Damage to the works</p> <p>The contractor shall, from the date of possession of the site until the date certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs</p> <p>10.1.5.1.2 Injury to persons or loss of or damage to property</p> <p>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.1.5.1.3</p> <p>It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the</p>	
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	<p>contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of possession of the site, but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.1.5.1.4</p> <p>The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1, 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>F:..... V:..... T:.....</p>	
1	<p>Clause 11.0 - <b>Securities</b></p> <p><b>Extension of waiver of lien</b></p> <p>Clause 11.0</p> <p>Amend 11.10 to read as follows:</p> <p>There shall be no lien or right of retention held by any <b>contractor</b> in respect of the <b>works</b> executed on <b>site</b></p> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
	<b><u>Execution (A12 - A17)</u></b>	
1	<p>Clause 12.0 - Obligations of the <b>parties</b></p> <p>Clause 12.0</p> <p>Amend 12.1.5 to read as follows:</p> <p>Give possession of the site to the contractor within ten (10) working days of the contractor complying with the terms of 12.2.22</p> <p>12.2.22: Not applicable</p> <p>Add the following as 12.2.18:</p> <p><b>Office accommodation</b></p> <p>The <b>contractor</b> shall provide, maintain and remove on <b>practical completion</b> air conditioned office accommodation with suitable tables and chairs for meetings to be held on the <b>site</b>. Such offices shall be kept clean and fit for use at all times</p> <p><b>Notice board</b></p> <p>The <b>contractor</b> shall erect in a position approved by the <b>principal agent</b>, maintain and remove on <b>practical completion</b> a notice board recommended by the South African Institute of Architects and as approved by the <b>principal agent</b> listing the names and logos of the <b>employer</b>, the <b>contractor</b> and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the <b>principal agent</b> for such notice boards to be erected</p> <p><b>Statutory and other notices</b></p> <p>The <b>contractor</b> 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 <b>works</b> by the <b>contractor</b>. The <b>contractor</b> shall pay all deposits or fees in this regard.</p> <p>Add the following as 12.2.22:</p> <p>Within fifteen (15) <b>working days</b> of the date of the <b>agreement</b> submit to the <b>principal agent</b> an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p>	
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	<p>It is, however, specifically recorded that the <b>employer</b> 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>F:..... V:..... T:.....</p>	
1	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>	
2	<p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	
3	<p>Clause 15.0 - Selected <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	
4	<p>Clause 16.0 - <b>Direct contractors</b></p> <p><b>Attendance on direct contractors</b></p> <p>In respect of <b>direct contractors</b> the <b>contractor</b> shall:</p> <ol style="list-style-type: none"> <li>1. Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials</li> <li>2. Allow the use of personnel welfare facilities, where provided</li> <li>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</li> <li>4. Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b>, in common with others having the like right, while it remains erected on the <b>site</b> [16.1]</li> </ol> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
1	<p>Clause 17.0 - <b>Contract instructions</b></p> <p><b>Site instructions</b></p> <p>Instructions issued on <b>site</b> are to be recorded in a A4 site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>Completion (A18 - A24)</u></b></p>	
2	<p>Clause 18.0 - Interim completion</p> <p>Clause 18.0 "To be deleted"</p>	
3	<p>Clause 19.0 - <b>Practical completion</b></p> <p>Clause 19.0</p> <p>Amend 19.5: Delete the works "subject to the <b>contractor's</b> lien or right of continuing possession of the <b>works</b> where this has not been waived"</p> <p>F:..... V:..... T:.....</p>	
4	<p>Clause 20.0 - Completion in <b>sections</b></p> <p>F:..... V:..... T:.....</p>	
5	<p>Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b></p> <p>Clause 21.0</p> <p>Add the following as 21.13:</p> <p>The ninety (90) calendar days defects liability period for the works [21.1] is replaced with a period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements</p> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
1	<p>Clause 22.0 - <b>Latent defects</b> liability period</p> <p>F:..... V:..... T:.....</p>	
2	<p>Clause 23.0 - Revision of the date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall <b>not</b> constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 &amp; 2]</p> <p>F:..... V:..... T:.....</p>	
3	<p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><b><u>Payment (A25 - A27)</u></b></p>	
4	<p>Clause 25.0 - Payment</p> <p>25.7.5: Not applicable</p> <p>25.10: Delete the words "and/or <b>compensatory interest</b>"</p> <p>25.14.2: Not applicable</p> <p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>F:..... V:..... T:.....</p>	
5	<p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p>	
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Item		Amount
	<p>Should the <b>contractor</b> be instructed to do so he shall execute this work under the conditions pertaining to this <b>agreement</b> on the basis that a separate amount for <b>preliminaries</b> appurtenant to this work (if applicable) is agreed to between the <b>contractor</b> and the <b>principal agent</b> 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 <b>practical completion</b> of the <b>works</b></p> <p>The <b>employer</b> reserves the right to omit such work without compensation to the <b>contractor</b> for loss of profit or any other loss which the <b>contractor</b> may suffer as a result of such omission</p> <p><b>Cost of claims</b></p> <p>All costs incurred by the <b>contractor</b> in the preparation of claims shall be borne by the <b>contractor</b>. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this <b>agreement</b> [30.6 &amp; 7] from making a determination on costs</p> <p><b>Claims from subcontractors</b></p> <p>The <b>contractor</b> shall review, assess and adjudicate any claims received by him from any <b>subcontractor</b> and thereafter submit same to the <b>principal agent</b> with a recommendation in order to assist the <b>principal agent</b> in adjudicating the claim [26.6]</p> <p>F:..... V:..... T:.....</p>	
1	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>27.1.5: Not applicable</p> <p>F:..... V:..... T:.....</p> <p><b><u>Suspension and termination (A28 - A29)</u></b></p>	
2	<p>Clause 28.0 - Suspension by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
1	<p>Clause 29.0 - Termination</p> <p>Add the following after 29.1.3:</p> <p>or where ...</p> <p>29.1.4: The <b>contractor's</b> estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>29.1.5: The <b>contractor</b> has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>F:..... V:..... T:.....</p> <p><b><u>Dispute resolution (A30)</u></b></p>	
2	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p> <p><b><u>CONTRACT VARIABLES (A31)</u></b></p>	
3	<p>Clause 31.0 - The Schedule (C1.2 Contract Data)</p> <p>Tenderers are referred to C1.2 Contract Data for variables pertaining to this contract</p> <p><b><u>Contract data</u></b></p> <p>Before submission of this tender the <b>contractor</b> is to complete the tenderers' selections in the <b>contract data</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>SECTION B: GENERAL PRELIMINARIES</u></b></p> <p><b><u>Definitions and interpretation (B1)</u></b></p>	
4	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
1	Clause 1.2 - Interpretation F:..... V:..... T:..... <b><u>Documents (B2)</u></b>	
2	Clause 2.1 - Checking of documents F:..... V:..... T:.....	
3	Clause 2.2 - Provisional <b>bills of quantities</b> F:..... V:..... T:.....	
4	Clause 2.3 - Availability of <b>construction information</b> F:..... V:..... T:.....	
5	Clause 2.4 - Ordering of <b>materials and goods</b> F:..... V:..... T:..... <b><u>Previous work and adjoining properties (B3)</u></b>	
6	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	
7	Clause 3.2 - Previous work - <b>defects</b> F:..... V:..... T:.....	
8	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <b><u>The site (B4)</u></b>	
9	Clause 4.1 - Handover of <b>site</b> in stages F:..... V:..... T:.....	
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Item		Amount
1	Clause 4.2 - Enclosure of the <b>works</b>  F:..... V:..... T:.....	
2	Clause 4.3 - Geotechnical and other investigations  F:..... V:..... T:.....	
3	Clause 4.4 - Encroachments  F:..... V:..... T:.....	
4	Clause 4.5 - Existing premises occupied  F:..... V:..... T:.....	
5	Clause 4.6 - Services - known  F:..... V:..... T:.....	
	<b><u>Management of contract (B5)</u></b>	
6	Clause 5.1 - Management of the <b>works</b>  F:..... V:..... T:.....	
7	Clause 5.2 - Progress meetings  F:..... V:..... T:.....	
8	Clause 5.3 - Technical meetings  F:..... V:..... T:.....	
	<b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b>	
9	Clause 6.1 - Samples of materials  F:..... V:..... T:.....	
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<u>Item</u>		<u>Amount</u>
1	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	
2	Clause 6.3 - Shop drawings F:..... V:..... T:.....	
3	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	
	<b><u>Deposits and fees (B7)</u></b>	
4	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	
	<b><u>Temporary services (B8)</u></b>	
5	Clause 8.1 - Water Option A (by <b>contractor</b> ) <b>YES</b> Option B (by <b>employer</b> - free of charge) <b>NO</b> Option C (by <b>employer</b> - metered) <b>NO</b> F:..... V:..... T:.....	
6	Clause 8.2 - Electricity Option A (by <b>contractor</b> ) <b>YES</b> Option B (by <b>employer</b> - free of charge) <b>NO</b> Option C (by <b>employer</b> - metered) <b>NO</b> F:..... V:..... T:.....	
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<u>Item</u>		<u>Amount</u>
1	Clause 8.3 - Ablution and welfare facilities  Option A (by <b>contractor</b> ) <b>YES</b>  Option B (by <b>employer</b> ) <b>NO</b>  F:..... V:..... T:.....	
2	Clause 8.4 - Communication facilities  Telephone <b>YES</b>  Facsimile <b>NO</b>  E-mail <b>NO</b>  F:..... V:..... T:.....  <b><u>Prime cost amounts (B9)</u></b>	
3	Clause 9.1 - Responsibility for <b>prime cost amounts</b>  Where details of materials for which prime cost amounts are to be allowed are readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc  F:..... V:..... T:.....  <b><u>Attendance on subcontractors (B10)</u></b>	
4	Clause 10.1 - General attendance  F:..... V:..... T:.....	
5	Clause 10.2 - Special attendance  F:..... V:..... T:.....	
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<u>Item</u>		<u>Amount</u>
	<b><u>General (B11)</u></b>	
1	Clause 11.1 - Protection of the <b>works</b> F:..... V:..... T:.....	
2	Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b> F:..... V:..... T:.....	
3	Clause 11.3 - Security of the <b>works</b> F:..... V:..... T:.....	
4	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	
5	Clause 11.5 - Disturbance  <b>Disturbance</b>  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 <b>construction period</b> or <b>contract value</b> whatsoever  F:..... V:..... T:.....	
6	Clause 11.6 - Environmental disturbance  <b>Controlling all forms of pollution</b>  The <b>contractor</b> shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the <b>site</b> during the <b>construction period</b> due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc	
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<u>Item</u>		<u>Amount</u>
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>	
1	<b>C1 GUARANTEES</b> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent not later than the works completion date.</p> <p>The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of final completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so.</p> <p>This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor.</p> <p>The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement.</p>	
2	<b>C2 OVERTIME</b> <p>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.</p>	
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<u>Item</u>		<u>Amount</u>
1	<p><b>C3 CONFIDENTIALITY</b></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>	
2	<p><b>C4 CONTRACT DRAWINGS</b></p> <p>The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the <b>works</b> and the manner in which they are to be executed.</p> <p>Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the <b>principal agent</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
3	<p><b>C5 TRADE NAMES</b></p> <p>Wherever a trade name for any product has been described in the <b>bills of quantities / lump sum document</b>, the renderers attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the <b>principal agent</b> being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
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<u>Item</u>		<u>Amount</u>
1	<p><b>C6 LOCAL PRODUCTION AND CONTENT</b></p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Local Production and Content (SBD 6.2) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b>C7 HIV/AIDS AWARENESS</b></p> <p>It is required of the <b>contractor</b> to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the <b>Bills of Quantities / lump sum document</b>. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>	
2	<p><b>C7.1 AWARENESS CHAMPION</b></p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
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<u>Item</u>		<u>Amount</u>
1	<b>C7.2 AWARENESS WORKSHOPS</b>  Selection and appointment of a competent Service Provider approved by the <b>principal agent</b> , provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification  Fixed: _____ Value related: _____ Time related: _____	
2	<b>C7.3 POSTERS, BOOKLETS, VIDEOS, ETC.</b>  Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the <b>construction period</b> , all in accordance with the HIV/AIDS Specification  Fixed: _____ Value related: _____ Time related: _____	
3	<b>C7.4 ACCESS TO CONDOMS</b>  Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the <b>construction period</b> , all in accordance with the HIV/AIDS Specification  Fixed: _____ Value related: _____ Time related: _____	
4	<b>C7.5 MONITORING</b>  Monitoring HIV/AIDS awareness of workers, providing the <b>principal agent</b> with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the <b>construction period</b> and close out, all in accordance with the HIV/AIDS Specification  Fixed: _____ Value related: _____ Time related: _____	
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<u>Item</u>		<u>Amount</u>
1	<p><b>C8 : OCCUPATIONAL HEALTH AND SAFETY ACT</b></p> <p>The <b>contractor</b> shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the <b>contractor</b> to thoroughly study the Health and Safety Specification (<b>Book 1 - Part C3 - Item 3.3</b>) that must be read together with and is deemed to be incorporated under this Section of the <b>bills of quantities / lump sum document</b></p> <p>The <b>contractor</b> must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the <b>principal agent</b>, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
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<u>Item</u>		<u>Amount</u>
1	<p>C9 : COVID 19</p> <p>The <b>contractor</b> shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and the Disaster Management, 2002 (Act 57 of 2002) It is required of the <b>contractor</b> to thoroughly study the Covid 19 Additional Health and Safety Specification (<b>Book 1 - Part C3 - Item 3.3</b>) that must be read together with and is deemed to be incorporated under this Section of the <b>Bills of Quantities / Lump Sum Document</b>.</p> <p>The <b>contractor</b> must take note that compliance with the Additional Covid 19 Occupational Health and Safety Act Requirements, Construction Regulations, Disaster Management Act and Health and Safety Specification is compulsory.</p> <p>In the event of partial or total non-compliance, the <b>principal agent</b>, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance.</p> <p>The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Additional Covid 19 Occupational Health and Safety Act Requirements, Construction Regulations, Disaster Management Act and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><b><u>SUMMARY OF CATEGORIES</u></b></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 - Preliminaries  Bill No. 1  Preliminaries  CLARENCE BOBIE INCORPORATED</p>	<p style="text-align: right;">R</p>

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<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>DEMOLITIONS AND ALTERATIONS (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>NOTE:</u></b>			
Tenderers are advised to visit the site and to satisfy themselves, in conjunction with the drawings of the nature and extent of the works to be done.			
The Contractor is advised to check all dimensions and heights on site affecting the existing buildings against those indicated on the plans as he will be held responsible for all new work being of the correct sizes. Should any discrepancies be found he is to refer them to the Architect for correction before proceeding with the work.			
Special care is to be exercised not to interfere with any electric light, power or telephone wires and due notice must be given to the Architect for any disconnections that are necessary, and the Contractor is to afford every facility to the Electrician when making new connections.			
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>In taking down and removing existing work, the utmost care is to be observed to avoid any structural or other damage to the remaining portion of the building. The Contractor must protect all work not removed, such as walls, floors, doors, windows or other joinery or fittings, etc., from damage during the progress of the work and provide all necessary material for so doing.</p> <p>The Contractor will be held solely responsible for any damage to persons or property and for the safety of the portions of the existing buildings throughout the whole of the Contract, and must make good at his own expense any damage that may occur.</p> <p>The materials to be used and the work to be done are to be similar in all respect to that described for new work in so far as they occur.</p> <p>Old materials from the pulling down are to remain the property of the contractor unless otherwise stated. Old materials for re-use are to be carefully taken out, stored and protected from injury and made good as required before being refixed. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish are to be immediately carted away and the site left clean and unencumbered. None of the old bricks from the demolition are to be re-used for any new work unless otherwise described or directed.</p> <p>For the purpose of this contract and to avoid misunderstanding, phrases stated hereunder have been defined and the Contractor is advised to study them as no claim whatsoever will be entertained as a result of him not so doing.</p> <p>a)"Forming New Openings" shall include all labour and materials forming opening, cut toothings and bonding for and plumbing and flushing up reveals, cutting for and forming precast concrete, or reinforced brick lintol over including necessary turning pieces, reinforcement, etc.</p>			
Carried to Collection		R	
<p>Section No. 2 - Demolitions and Alterations</p> <p>Bill No. 1</p> <p>Demolitions and Alterations (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p>b)"Bricking up Openings" shall include for all preparatory work, cut toothings and bond new brickwork to existing and preparing top of existing surface for raising upon and pinning up new brickwork to underside of existing.</p> <p>c)"Making Good" shall include all labour and materials required to match existing work and is to include making good new work up to existing and labours to plaster, etc.</p> <p>d)"Shoring" is not specifically mentioned in each item, however prices are to include for all shoring, needling, strutting, deadwork, etc., required.</p>			
	<p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 102</p> <p><b><u>DEMOLITIONS</u></b></p>			
1	<p>Demolish carefully <b><u>1 x Storage/Toilet Block</u></b> complete, size approximately 2.4m x 2.4m wide on plan (single storey), consisting of 540mm brick and sandstone walls timber trusses and corrugated iron sheeting etc. including backfilling where foundations removed and filling trenches and holes, cart away all material which is not required by the client and handover all material as to be instructed on site.</p>	No	1	
2	<p>Demolish carefully <b><u>1 x Holding Cell</u></b> complete, size approximately 4.6m x 3.2m wide on plan (single storey), consisting of 220mm brick and 200mm thick slab, etc. including backfilling where foundations removed and filling trenches and holes, cart away all material which is not required by the client and handover all material as to be instructed on site.</p>	No	2	
	Carried to Collection			R
	<p>Section No. 2 - Demolitions and Alterations</p> <p>Bill No. 1</p> <p>Demolitions and Alterations (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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Item		Quantity	Rate	Amount
1	Demolish carefully <b><u>1 x Delivery Yard Structure</u></b> complete, size approximately 6.0m x 5.6m wide on plan (single storey), consisting of 220mm brick and steel poles supported wire mesh covering, etc. including backfilling where foundations removed and filling trenches and holes, cart away all material which is not required by the client and handover all material as to be instructed on site.	No	1	
	<b><u>Breaking up and removing reinforced concrete</u></b>			
2	Average 480 x 150mm Stormwater channel	m	58	
	<b><u>Breaking up and removing mass concrete</u></b>			
3	100 mm Thick mesh reinforced concrete surface beds, paving, etc.	m2	540	
4	Concrete steps	m3	1	
5	Concrete footings average 600mm deep	m3	1	
	<b><u>Excavate and cart away ground filling under slabs</u></b>			
6	Ground filling	m3	23	
	<b><u>Breaking down and removing brickwork, etc.</u></b>			
7	Half brick wall	m2	50	
8	One brick wall	m2	136	
9	380mm Sandstone wall	m2	39	
10	540mm Brick/Sandstone wall	m2	5	
11	50mm Concrete pavers	m2	177	
12	220 x 160 x 30mm steel air brick.	No	10	
	Carried to Collection			R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings elsewhere)</u></b>			
1	Carefully remove and set aside for reuse, glazed timber window, including surrounds, stone and timber cills size 1150 x 1800mm high from 540mm brick wall and brick up openings (elsewhere)	No	3	
2	Remove glazed steel window, size 533 x 654mm high from 220mm brick wall	No	12	
3	Timber single door and steel frame 900 x 2 100 mm high overall from 270 mm brick wall	No	9	
4	Carefully remove and set aside timber single door and timber fanlight frame 879 x 2 860 mm high overall from 540 mm brick wall	No	4	
5	Timber double glazed top garage door and frame overall size 2700 x 3600 mm high overall from 380 mm sandstone walls	No	2	
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u></b>			
6	Tongued and grooved timber suspended floors including, joists, bearers, floor covering, skirtings, etc complete	m2	151	
7	38 x 114mm Rafters	m	74	
8	50 x 76mm Purlins	m	74	
9	50 x 250mm Beams	m	20	
10	Corrugated iron roof covering, Rafters,purlins, rain water goods, eaves closers, fascia and barge boards, ceilings, etc.complete (Mono pitched roofs)	m2	121	
	Carried to Collection			R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Corrugated iron roof covering (Measured on slope, existing trusses and purlins to remain)	m2	31		
2	Eaves gutters	m	163		
3	Fibre cement fascias	m	163		
4	Timber cornices	m	194		
5	Gypsum plasterboard ceilings including cornices, timber bandering, etc.	m2	434		
6	Drywall partitioning comprising timber formed top, bottom and vertical framing with butt jointed boards	m2	53		
	<b><u>Taking out and removing joinery fittings, etc.</u></b>				
7	Take out timber skirting 140 mm high.	m	239		
8	Timber sink cupboard 1 500 x 500 x 900 mm high, including disconnecting waste pipe (new trap and connecting to new waste pipe elsewhere)	No	2		
	<b><u>Removal of strong room shelving</u></b>				
9	Disassemble and remove, timber shelving 4000mm high	m	24		
	<b><u>Removal of Cash hall fittings</u></b>				
10	Disassemble and remove, Cash hall writing counter, approximate overall size 3500 x 350mm wide.	No	1		
11	Disassemble and remove, entire reception counter and bullet proof glazing and frame, approximate overall size 6500 x 700 x 900mm high.	No	1		
	<b><u>Removal of Courtroom fittings</u></b>				
	Carried to Collection			R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Court Room A</u></b>				
1	Disassemble and remove, existing court magistrate bench, approximate overall size 5000 x 2000 x 1500mm high.	No	1		
2	Disassemble and remove, existing witness stands, approximate overall size 1600 x 1600 x 800mm high.	No	2		
3	Disassemble and remove, existing accused stands, approximate overall size 4000 x 1600 x 800mm high.	No	1		
4	Disassemble and remove, existing court public sit benches, approximate overall size 3000 x 500 x 750mm high.	No	18		
5	Disassemble and remove, existing court timber partitions, approximate 900mm high.	m	7		
6	Disassemble and remove, existing court tables, approximate overall size 1500 x 900 x 750mm high.	No	6		
	<b><u>Court Room B</u></b>				
7	Disassemble and remove, existing court magistrate bench, approximate overall size 4200 x 2300 x 1500mm high.	No	1		
8	Disassemble and remove, existing witness stands for repairs to floor, approximate overall size 2000 x 900 x 1100mm high.	No	1		
	Carried to Collection				R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Disassemble and remove, existing accused bench for repairs to floor, approximate overall size 3000 x 900 x 1100mm high.	No	1		
2	Disassemble and remove, existing court public sit benches, approximate overall size 3000 x 500 x 750mm high.	No	6		
3	Disassemble and remove, existing court timber partitions, approximate 1100mm high.	m	4		
4	Disassemble and remove, existing court tables, approximate overall size 1500 x 900 x 750mm high.	No	3		
<b><u>Removal of prosecutor room fittings</u></b>					
5	Disassemble and remove, counter desk, approximate overall size 4000 x 900 x 900mm high.	No	1		
6	Remove existing built in cupboard, approximate overall size 2800 x 600 x 1600mm high.	No	1		
<b><u>Taking out and removing ironmongery (LI)</u></b>					
7	Mortice lock and striking plate from timber door and steel/timber frame	No	17		
8	Standard door hinges	No	51		
<b><u>Taking out and removing glass and mirrors including carting away</u></b>					
9	Glass from existing timber windows	m2	50		
10	Glass from existing timber fanlights	m2	7		
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Taking up and removing vinyl floor coverings, carpeting, etc.</u></b>			
1	Vinyl tile floor covering.	m2	360	
2	Carpet tile floor covering.	m2	21	
	<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc.</u></b>			
3	Internal plaster from walls and columns	m2	803	
4	External plaster from walls and columns	m2	50	
5	Plaster to soffits of slabs	m2	33	
6	30 mm Screeds from existing surface beds.	m2	127	
7	Average 30mm plaster skirting average 300mm high.	m	45	
	<b><u>Taking out/off and removing sundry metalwork and handover to employer</u></b>			
8	Steel security gate 1 000 x 2 032 mm high	No	2	
9	Roll Up shutter size 1300 x 1900mm high	No	3	
	<b><u>Taking out and removing piping, sanitary fittings, etc., including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>			
10	Rainwater downpipes	m	165	
11	15 mm Copper piping including fittings and brackets	m	35	
12	22 mm Copper piping including fittings and brackets	m	18	
13	50 mm PVC pipe and fittings.	m	25	
	Carried to Collection			R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	110 mm PVC pipe and fittings	m	16		
2	Standpipe and tap	No	2		
3	Stainless steel urinal 1600 x 1 200 mm high including breaking up and removing 340 mm wide concrete urinal step	No	1		
4	Vitreous china wash hand basin	No	8		
5	Vitreous china WC pan with cistern	No	10		
Carried to Collection					R
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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>EARTHWORKS</u></b>			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Nature of material to be excavated</u></b>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<b><u>Carting away of excavated material</u></b>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site			
Carried to Collection			R
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Item	Quantity	Rate	Amount
<b><u>Dewatering of excavations</u></b>			
The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise			
Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water			
<b><u>Density testing on filling</u></b>			
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved			
When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally			
<b><u>EARTHWORKS</u></b>			
<b><u>Excavations</u></b>			
<b><u>Excavate in pickable material not exceeding 2 m deep below natural or reduced ground level (Labour-intensive)</u></b>			
1	150mm Deep over site between buildings, retaining walls, etc to remove top soil and depositing excavated material in prescribed stock piles on site	m3 47	
2	Surface trenches.	m3 224	
3	Reduce levels under surface beds	m3 93	
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
4	Soft rock	m3 22	
Carried to Collection			R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Hard rock	m3	11		
	<b><u>Garden soil filling obtained from the excavations and/or prescribed stock piles on site</u></b>				
2	Spread over site	m3	47		
	<b><u>Extra over all excavations for carting away:</u></b>				
3	Extra over all excavations for carting surplus excavated material and spreading, levelling and lightly compacting on site where directed average 150 m from the excavations (Measured Nett - No Allowance made for bulking).	m3	314		
	<b><u>Compaction of surfaces</u></b>				
4	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	552		
	<b><u>Risk of collapse of excavations:</u></b>				
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	722		
	<b><u>Keeping excavations free of water:</u></b>				
6	Keeping excavations free from mud and all water including subterranean sources.		Item		
	<b><u>FILLING, ETC</u></b>				
	<b><u>19mm Crushed stone dressing evenly spread with larger stones around outlets</u></b>				
7	150mm Thick on waterproofing under floors	m2	259		
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>G7 earth filling supplied by the contractor compacted to 93% Mod AASHTO density:</u></b>			
1	Backfilling to trenches, holes, etc.	m3	98	
2	Under concrete surface beds in accordance with SABS 1200 DM compacted in max 150mm thick layers to 93% Mod AASHTO density.	m3	348	
	<b><u>G5 earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>			
3	Under concrete surface beds in accordance with SABS 1200 DM compacted in 150mm thick layers to 95% Mod AASHTO density.	m3	109	
	<b><u>Coarse river sand filling</u></b>			
4	Under floors, etc	m3	31	
	<b><u>Prescribed density tests on filling:</u></b>			
5	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	22	
Carried to Collection				R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 2</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Cost of tests</u></b>			
Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trail mixes			
The costs of making, storing and testing of concrete test cubes as required 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 to the approval of the Principal Agent. (Test cubes are measured separately)			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 110			
Carried to Collection			
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
1	Surface blinding under footings and bases	m3	12		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>25MPa/19mm concrete:</u></b>				
2	Footings to walls (Provisional).	m3	65		
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
	<b><u>25MPa/19mm concrete:</u></b>				
3	Surface beds on waterproofing	m3	93		
	<b><u>Thicken out surface beds, etc.</u></b>				
4	Thicken out 125 mm surface beds to a total thickness of 250 mm for a width of 500 mm under walls, including all necessary excavation, surface preparation, additional concrete and formwork, etc.	m	20		
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
	<b><u>30 MPa/19mm concrete</u></b>				
5	Slabs, including beams and inverted beams	m3	33		
6	Extra over slabs for breaking out 300mm high x 105mm deep in existing stone/ brickwork to creating casting pocket for slab ends	m	12		
7	Wall beams	m3	25		
	<b><u>CONCRETE TESTS</u></b>				
	Carried to Collection				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>MOVEMENT JOINTS ETC</u></b>			
	<b><u>CPAP WORK GROUP 111</u></b>			
	<b><u>SLIP JOINTS BETWEEN CONCRETE AND BRICKWORK</u></b>			
	<b><u>Two layers of 3 ply maltoid on and including 10mm mortar layer in 1:3 mix:</u></b>			
1	Not exceeding 300mm wide.	m	246	
	<b><u>ISOLATION JOINTS</u></b>			
	<b><u>Isolation Joints</u></b>			
2	Low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 100 x 12mm thick with tear off strip fitted to isolation joints in concrete surface with adhesive as per adhesive manufacturer's recommendation.	m	482	
	<b><u>Approved polyurethane elastometric adhesive/sealant colour Concrete Grey applied in accordance with the manufacturer's instructions.</u></b>			
3	12 x 10mm Deep in isolation joints in floors or walls including raking out expansion joint filler as necessary.	m	482	
	<b><u>CONSTRUCTION JOINTS</u></b>			
	<b><u>Horizontal construction joints through concrete including bond breaker on interface (lime wash or similar)</u></b>			
4	Form construction joint in concrete surface bed not exceeding 100mm thick including inserting of diamond dowel 114 x 114 x 8mm thick plates at 500mm centres including all necessary formwork and coating full face of concrete with a debonding agent.	m	72	
Carried to Collection				R
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CLARENCE BOBIE INCORPORATED				

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**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Saw cut joints</u></b>				
1	6 x 25mm Deep saw cut joints in top of construction joints in concrete surface beds	m	72		
	<b><u>Surface to be clean, dry and sound. Mix two components thoroughly to form a homogenous mixture and apply Masterflex® 320 flexible epoxy joint filler to joint with a minimum depth of 20mm over a 3-5mm layer of silica at the base of the joint using a closed barrel gun, all in accordance with manufacturer's recommendations.</u></b>				
2	6 x 20mm Deep in saw cut joints to construction joints.	m	72		
	<b><u>SAW CUT JOINTS</u></b>				
	<b><u>Saw cut joints</u></b>				
3	3 x 30mm Deep saw cut joints in top of concrete surface beds	m	17		
	<b><u>Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:</u></b>				
4	3 x 10mm Deep in saw cut joints between concrete surfaces.	m	17		
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
	<b><u>CPAP WORK GROUP 114</u></b>				
	<b><u>Fabric reinforcement in surface beds:</u></b>				
5	Type 193 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 1,93 kg/m <sup>2</sup> with nominal 5.6mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (measured net)	m2	716		
Carried to Collection					R
Section No. 3 - New Works					
Bill No. 2					
Concrete, Formwork & Reinforcement (Provisional)					
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Type 245 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 2,45 kg/m <sup>2</sup> with nominal 6,3mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	8	
	<b><u>Fabric reinforcement in walls:</u></b>			
2	Type 617 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 6,17 kg/m <sup>2</sup> with nominal 10mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	58	
	<b><u>Mild steel reinforcement to structural concrete work:</u></b>			
3	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	1,112	
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>			
4	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	8,072	
Carried to Collection				R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>MASONRY</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>BRICKWORK</u></b>			
<b><u>Sizes in descriptions</u></b>			
Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick			
<b><u>Cement mortar</u></b>			
Unless otherwise described, all brickwork shall be built in 1:6 cement mortar			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Carried to Collection			R
Section No. 3 - New Works			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Pointing</u></b>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
<b><u>Samples, etc</u></b>				
Rates for brickwork, faced brickwork, etc shall include for all required samples				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 116				
<b><u>BRICKWORK</u></b>				
<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>				
<b><u>14MPa nominal compressive strength Imperial NFX loadbearing perforated plaster brick, size 222 x 73 x 106mm, manufactured in accordance with SANS 227:2007, laid in foundations walls to single storey building and bedded and jointed in Class I mortar. Mortar in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in mortar Class 1 to be mixed to the ratio of 1 part cement : 4 parts sand, (sand to conform to SANS 1083:2006) to highly stressed masonry, incorporating high structural units.</u></b>				
1	One brick walls.	m2	433	
2	280mm Wide cavity walls of two half brick skins including wire butter fly ties at a rate of 10no. per square metre.	m2	34	
Carried to Collection				R
Section No. 3 - New Works				
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CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	330mm hollow walls of two half brick skins with and including wire butter fly ties at a rate of 10no. per square metre.	m2	35	
<b><u>BRICKWORK IN SUPERSTRUCTURE</u></b>				
<b><u>14MPa nominal compressive strength Imperial NFX loadbearing perforated plaster brick, size 222 x 73 x 106mm, manufactured in accordance with SANS 227:2007, laid in superstructure walls to single storey building and bedded and jointed in Class I mortar. Mortar in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in mortar Class 1 to be mixed to the ratio of 1 part cement : 4 parts sand, (sand to conform to SANS 1083:2006) to highly stressed masonry, incorporating high structural units.</u></b>				
2	Half brick walls in beamfilling.	m2	47	
3	Half brick walls.	m2	65	
4	One brick walls.	m2	1,208	
5	380mm Brick walls	m2	32	
6	330mm hollow walls of two half brick skins with and including wire butter fly ties at a rate of 5no. per square metre.	m2	149	
7	220mm Brick walls in bricking up openings where windows and doors removed.	m2	4	
8	380mm Brick walls in bricking up openings where windows and doors removed.	m2	9	
<b><u>SANDSTONE ETC WALL LININGS ETC</u></b>				
Carried to Collection				R
Section No. 3 - New Works				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Allow the Prime cost amount of R900/m2 for supply and delivery of 600 x 300 x 110mm thick sandstone wall linings</u></b>			
1	Approved sandstone wall linings 600 x 300 x 110mm thick square edge in cement mortar finished fair and pointed both sides as described.	m2	43	
2	Approved sandstone wall linings 220 x 73 x 105mm thick square edge in cement mortar finished fair and pointed both sides as described.	m2	49	
	<b><u>SANDSTONE WALLS</u></b>			
3	Extra over brick walls for sandstone facings externally size 220 x 73 x 105mm Wide in cement mortar finished fair and pointed both sides as described.	m2	930	
4	115 x 230 mm Projection sandstone facings projection externally in cement mortar finished fair and pointed both sides and face as described.	m	114	
5	Closing 110mm cavity of hollow wall vertically with one course of sandstone brickwork.	m	6	
6	165 x 160mm Sandstone lintel in cement mortar finished fair and pointed both sides as described.	m	94	
7	165 x 160mm Sandstone cill with 115mm wide x 10mm deep rebate along length and with window width, splayed and filleted rebate, in cement mortar finished fair and pointed both sides as described.	m	70	
8	165 x 250 x 50/35mm Sandstone capping with drip groove along 165mm edge, in cement mortar finished fair and pointed both sides as described.	No	30	
	<b><u>BRICKWORK SUNDRIES</u></b>			
9	Splayed mortar fillet one course high in 110mm cavity	m	39	
	<b><u>CONCRETE</u></b>			
	Carried to Collection			R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>15MPa/19mm concrete</u></b>				
1	Infill to 60mm wide cavities of 280mm brick walls in foundations.	m3	3		
2	Infill to 110mm wide cavities of 330mm brick walls in foundations.	m3	4		
	<b><u>Brickwork reinforcement:</u></b>				
3	75mm Wide reinforcement built in horizontally.	m	343		
4	150mm Wide reinforcement built in horizontally.	m	6,428		
5	Ditto, but in foundations (Provisional).	m	6,040		
	<b><u>Prestressed fabricated lintels:</u></b>				
6	110 x 75mm Lintels in lengths not exceeding 3m.	m	152		
	<b><u>Turning pieces:</u></b>				
7	100mm Wide turning piece to lintels etc.	m	105		
8	200mm Wide turning piece to lintels etc.	m	16		
	<b><u>Galvanised wire ties etc:</u></b>				
9	4mm Diameter roof tie 2m girth bent double, with one end built into brick/blockwork and other end fixed to timber.	No	142		
	<b><u>Cramps, ties, etc:</u></b>				
10	30 x 2mm Galvanized door frame tie 350mm long with one end fixed to timber and other built into brickwork or concrete.	No	384		
11	30 x 2mm Galvanized brick tie 350mm long with one end fixed to existing brick wall and other built into brickwork or concrete.	No	16		
	Carried to Collection			R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u></b>				
1	10 x 175mm Wide sills set flat and slightly projecting.	m	22		
	<b><u>Sundries:</u></b>				
2	Building ends of timber beams into brick walls and caulk with cement mortar.	No	7		
	<b><u>Plain Coping bedded and jointed in Class II mortar and pointed on all exposed faces.</u></b>				
3	300 x 85mm Thick precast concrete coping to top of 220mm brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	8		
4	410 x 85mm Thick precast concrete coping to top of 330mm brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	39		
	<b><u>Air bricks etc:</u></b>				
5	220 x 160 x 50mm Cement vermin proof grey air brick.	No	12		
Carried to Collection					R
Section No. 3 - New Works					
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Section 3  
Bill No. 3  
Masonry  
**COLLECTION**

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 4</u></b>				
<b><u>WATERPROOFING</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 120				
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer of 375 micron embossed damp proof course</u></b>				
1	In walls	m2	116	
<b><u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u></b>				
2	Under surface beds	m2	852	
<b><u>4mm "Derbigum SP" waterproofing</u></b>				
3	On flat roofs	m2	73	
Carried to Collection				R
Section No. 3 - New Works Bill No. 4 Waterproofing CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Additional membrane at 110mm diameter outlet  <u><b>PROTECTIVE STONE DRESSING</b></u>  <u><b>19mm Crushed stone dressing evenly spread with larger stones around outlets</b></u>	No	22	
2	80mm Thick on waterproofing to flat roofs  <u><b>JOINT SEALANTS, ETC</b></u>  <u><b>Sealing around window frames</b></u>	m2	41	
3	Expandite Sealastic gun applied sealing compound in joint sealing and pointing all round external window frames	m	334	
Carried to Collection			R	
<b>Section No. 3 - New Works</b>				
<b>Bill No. 4</b>				
<b>Waterproofing</b>				
<b>CLARENCE BOBIE INCORPORATED</b>				



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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 5</u></b>			
<b><u>ROOF COVERINGS, ETC</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Fixing</u></b>			
Fixing shall be done according to SABS 1200HB with minimum 225mm end laps			
<b><u>Guarantee</u></b>			
The contractor will be required to provide a written guarantee, stating that :			
1. The roof sheeting is of the specified thickness			
2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 124			
Carried to Collection			R
Section No. 3 - New Works Bill No. 5 Roof Coverings, Etc CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>EXISTING PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>Existing average 0,80mm thick ISQ300 Z275 spelter galvanised steel roof sheeting with painted finish to one side fixed to timber purlins or rails at 1100mm centres</u></b>			
1	Examine existing sheet iron roofing sheets, ridges, hips, valleys, etc. for leaks, holes, etc. and make good including securing purlins with approved purlin fasteners and tapping down/replacing roof screws, etc. and leaving roof completely weatherproof.	m2	622	
	<b><u>NEW PROFILED METAL SHEETING</u></b>			
	<b><u>Corrugated 0,58mm thick ISQ300 Z275 spelter galvanised steel roof sheeting fixed to timber purlins or rails (elsewhere measured) at 1100mm centres with and including 63 mm tex or top speed screws incorporating 19 mm bonded washers.</u></b>			
2	Roof covering with pitch not exceeding 25°	m2	31	
	<b><u>0,58mm Thick standing seam profile interlocking roof sheeting with approved colour finish one side and standard grey backing coat, fixed to timber intermediate purlins at 800mm centres, ridge purlins at 800mm from intermediate purlins and eaves purlins at 800mm from intermediate purlins using 1,15mm thick approved clips secured to purlins at 407mm centres with 2No. 65mm ring shank nails, all in accordance with manufacturer's recommendations.</u></b>			
3	Roof covering with pitch not exceeding 10°	m2	639	
	<b><u>0,8mm Nominal thickness ditto, but flashings:</u></b>			
4	Roll top ridge, girth 462mm, fixed in accordance with manufacturer's specifications.	m	6	
5	Extra over for junction of ridge with two hips.	No	2	
	Carried to Collection			R
	Section No. 3 - New Works			
	Bill No. 5			
	Roof Coverings, Etc			
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Extra on last, for closed end.	No	2		
2	Roll top hip, girth 462mm, fixed in accordance with manufacturer's specifications.	m	8		
3	Extra on last, for closed end.	No	2		
4	Gable/barge flashing, girth 462mm, fixed in accordance with manufacturer's specifications.	m	290		
5	Valley flashing, girth 462mm, fixed in accordance with manufacturer's specifications.	m	12		
6	Sidewall flash, girth 308mm, fixed in accordance with manufacturer's specifications.	m	15		
7	Counter flash, girth 154mm, fixed in accordance with manufacturer's specifications.	m	15		
<b><u>INSULATION</u></b>					
8	Approved Heavy duty, durable, double sided, reflective foil laminate incorporating advanced fire retardant properties, tested for conformance with SANS 1381-4:2009, with a Class 1 fire rating in accordance with SANS 10177 - 3:2005, ASTM E84 and BS 476 part 5, 6 and 7, laid under purlins on top of rafters; overlapped longitudinally by 150mm with overlap ends taped; on and including 1.6mm galvanised straining wire spaced at 275mm; all in accordance with the manufacturers specifications.	m2	639		
Carried to Collection					R
Section No. 3 - New Works					
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 6</u></b>			
<b><u>CARPENTRY AND JOINERY</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Roof trusses</u></b>			
The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate			
<b><u>Joinery</u></b>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
Carried to Collection			
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>Fixing</u></b></p> <p>All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Where items are described as "bolted" the bolts have been measured elsewhere</p> <p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 126</p> <p><b><u>ROOFS, ETC</u></b></p> <p><u>Prefabricated roof trusses:</u></p> <p>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.</p> <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> <p>Prices must include for all cross and windbracing according to the manufacturer's instruction.</p> <p>Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.</p>			
Carried to Collection		R	
<p>Section No. 3 - New Works</p> <p>Bill No. 6</p> <p>Carpentry And Joinery</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Pre-fabricated timber roof trusses shall comply with the requirements of SANS Specification 0163 and 0160 and to be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.</p> <p>Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.</p> <p>The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.</p> <p>In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.</p>			
Carried to Collection		R	
<p>Section No. 3 - New Works  Bill No. 6  Carpentry And Joinery  CLARENCE BOBIE INCORPORATED</p>			



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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:</p> <p>(a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction.</p> <p>(b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services.</p> <p>(c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work.</p> <p>(d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.</p> <p>The following minimum information shall be shown on the drawings:</p> <p>(a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.</p> <p>(b) Bracing as recommended by the Institute for Timber Construction.</p> <p>(c) Sizes and grading of the timber components.</p> <p>(d) Truss sizes, e.g. height of ridge or angle of pitch.</p> <p>(e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).</p>			
Carried to Collection		R	
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
(f) Seperate connection details for hip, valley and jack rafters.			
(g) Maximum spacing for purlins and brandering to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.			
(h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:  "The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".			
<u>Joinery:</u>  Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.  Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.			
<u>Fixing:</u>  All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	Where items are described as "bolted" the bolts have been measured elsewhere.			
	<b><u>The following trusses shall be approved engineering designed roof trusses manufactured from sawn softwood and suitable for corrugated iron covering and gypsum plasterboard ceilings on 38 x 50mm softwood branderling</u></b>			
	<b><u>(NOTE :The contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications)</u></b>			
	<b><u>ROOFS, ETC</u></b>			
	<b><u>Sawn softwood</u></b>			
	<b><u>Plate nailed timber roof truss construction.</u></b>			
	<b><u>The following budgetary allowances are for work to be executed by the Contractor</u></b>			
1	Provide the amount of R755,000.00 (Seven Hundred and Fifty Five Thousand Rand) for the manufacturing and supply, of roof trusses, bracing, etc. measuring approximately 670m2 on plan	Item		755,000.00
2	Labour on above for hoisting in place and fixing of roof trusses, bracing, etc.	Item		
	<b><u>Sawn softwood grade 4</u></b>			
3	50 x 76 mm Purlins in repairs to existing structure.	m	74	
4	38 x 114 mm Rafters in repairs to existing structure.	m	74	
5	38 x 50mm Bearer eaves ceiling support (Provisional) plugged to walls with and including approved brass screws at 500mm centres	m	163	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	38 x 114mm Bearer fascia support (Provisional) fixed between rafters feet with and including approved hurricane clips.	m	427	
	<b><u>Laminated S. A. pine</u></b>			
2	50 x 250mm beam.	m	20	
	<b><u>EAVES, VERGES, ETC</u></b>			
	<b><u>Pressed fibre cement</u></b>			
3	12 x 225mm Fascias boards drilled and brass screwed to and including 38 x 50 x 114mm long SAP cleats screwed to rafter feet including galvanised steel H-profile jointing strips between lengths	m	427	
4	Extra on last for apex mitre	No	38	
	<b><u>SKIRTINGS</u></b>			
	<b><u>Wrought softwood</u></b>			
5	Approved pine skirting, size 25mm x 150mm high, with approved profile to one edge, plugged and countersunk screwed and pelleted to wall at 400mm centres, with and including hardwood quadrant, size 19 x 19mm planted on at 400mm centres. All joints and corners to be mitred, all installed to manufacturers specifications.	m	443	
	<b><u>WINDOWS</u></b>			
	<b><u>Wrought meranti windows</u></b>			
6	Type H purpose made top hung window 533 x 654mm high	No	12	
	<b><u>EXISTING TIMBER WINDOWS</u></b>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Service existing timber sash windows.</u></b>			
1	Service existing timber sash window size 1000 x 975 mm by replacing or repairing all damaged sash fasteners, sash lifts, sash rollers, nylon guides, guidelines etc. including replacing all damaged stiles and transoms, top and bottom rebated and grooved rails, cills, glazing beads etc. and easing all opening sections leaving window fully operational and functional.	No 1		
2	Service existing timber sash window size 600 x 1800 mm by replacing or repairing all damaged sash fasteners, sash lifts, sash rollers, nylon guides, guidelines etc. including replacing all damaged stiles and transoms, top and bottom rebated and grooved rails, cills, glazing beads etc. and easing all opening sections leaving window fully operational and functional.	No 1		
3	Service existing timber sash window size 1150 x 1800 mm by replacing or repairing all damaged sash fasteners, sash lifts, sash rollers, nylon guides, guidelines etc. including replacing all damaged stiles and transoms, top and bottom rebated and grooved rails, cills, glazing beads etc. and easing all opening sections leaving window fully operational and functional.	No 23		
	<b><u>EXISTING TIMBER DOORS, ETC</u></b>			
	<b><u>Servicing of existing external doors</u></b>			
4	Service existing solid external single doors and frames average door size 825 x 2 100 mm high by, neatly glueing in timber where door damaged, servicing existing hinges and easing door, leaving door and frame in perfect working order. (New lock sets and new hinges elsewhere measured)	No 11		
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Servicing of existing internal doors</u></b>			
1	Service existing solid and semi solid internal single doors and frames average door size 825 x 2 092 mm high by, neatly glueing in timber where door damaged, servicing existing hinges and easing door, leaving door and frame in perfect working order. (New lock sets and new hinges elsewhere measured)	No	6	
	<b><u>DOORS ETC</u></b>			
	<b><u>ANTI BANDIT DOORS</u></b>			
2	Level G1 bullet resistant anti-bandit door with 100 x 50 x 2mm gauge mild steel frame, overall size 930 x 2095mm high in Sapele veneer with 250 x 500mm high viewing panel glazed in 28mm thick clear glass supplied with 5-pin CISA dead lock with an additional light duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, continuous roton type hinge, aluminium slam bar with an approved light duty door closer and D-style pull handles.	No	1	
	<b><u>Solid flush doors with 3,2mm standard hardboard covering on both sides and concealed edges hung to timber frames</u></b>			
3	44mm Single door size, 813 x 2032mm high all as per Architects Detail "Door Type H" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No	8	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Wrought meranti doors hung to timber frames</u></b>			
1	44 mm Framed, ledged and braced door, size 813 x 2 032 mm high of 44 x 108 mm top rail and stiles, 22 x 220mm middle ledge and bottom rail, 19 x 108mm braces, filled in with 22 x 70mm tongue and groved V-jointed one side boarding and covered on other side with 3 mm plywood with veneer to match door let into and including rebates all round as per Architects Detail (Type F) attached to the back of the Bills of Quantities. (All door furniture elsewhere measured)	No 5		
2	44 mm Framed, ledged and braced door, size 914 x 2 032 mm high of 44 x 108 mm top rail and stiles, 22 x 220mm middle ledge and bottom rail, 19 x 108mm braces, filled in with 22 x 70mm tongue and groved V-jointed one side boarding and covered on other side with 3 mm plywood with veneer to match door let into and including rebates all round as per Architects Detail (Type G) attached to the back of the Bills of Quantities. (All door furniture elsewhere measured)	No 2		
3	44mm Solid Meranti hardwood horizontal slatted single door, size 813 x 2 032mm high overall, all as per Architects Detail "Door Type K" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No 24		
4	44mm Solid Meranti hardwood horizontal slatted single door, size 813 x 2 032mm high overall, all as per Architects Detail "Door Type P" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No 4		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	44mm Solid Meranti hardwood four panel single door, size 813 x 2 032mm high overall, all as per Architects Detail "Door Type R" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No	1		
2	44 mm Framed, ledged and braced double door 1 612 x 2 032 mm high with rebated meeting stiles and glass pane top, each leaf of 44 x 146 mm top rail and stiles, 22 x 146 mm middle ledge and braces and 22 x 222 mm bottom rail filled in with 22 mm V-jointed one side boarding and covered on other side with 3 mm plywood with veneer to match door let into and including rebates all round all as per Architects Detail "Door Type J" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No	4		
<b><u>FRAMED FRAMES ETC</u></b>					
<b><u>Wrought meranti</u></b>					
3	76 x 50mm Rebated framed frame	m	251		
4	220 x 19 mm Door liner jamb plugged	m	15		
5	120 x 19 mm Door architrave plugged	m	31		
<b><u>BEADS, ARCHITRAVES, ETC</u></b>					
<b><u>Wrought meranti</u></b>					
6	19mm Quadrant moulding planted on	m	53		
7	32 x 44mm Weather boards including rebates in doors	m	24		
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>NOTICE BOARDS, KEYBOARDS, DUCKBOARDS, ETC</u></b>			
1	Key cabinet type KEY01 445 x 580 x 105 mm deep overall plugged and screwed to wall, of 16 mm "Melawood" melamine faced chipboard sides, top and bottom, 19 x 32 mm wrought meranti frame, 22 mm blockboard backboard with hardwood veneer and 16 mm "Supawood" door 400 x 534 mm high (ironmongery elsewhere)	No	2	
	<b><u>JOINERY FITTINGS</u></b>			
	<b><u>Foyer</u></b>			
2	Lightly sand the entire notice board in finer grades of sand paper until all marks are removed and the solid timber members are clean and smooth. Apply two coats of matt polyurethane varnish, lightly sanding between coats, approximate overall size 800 x 800mm high.		Item	
3	Lightly sand the entire pin board frame in finer grades of sand paper until smooth. Apply two coats of universal undercoat and two coats plascon eggshell enamel paint (colour white), approximate overall length 7200mm not exceeding 150mm girth		Item	
	<b><u>Lobby</u></b>			
4	Lightly sand the entire notice board in finer grades of sand paper until all marks are removed and the solid timber members are clean and smooth. Apply two coats of matt polyurethane varnish, lightly sanding between coats, approximate overall size 1200 x 1200mm high.		Item	
	<b><u>Security Control Room</u></b>			
5	Cash hall writing counter 5500 x 750mm wide (Refer to drawing 1052/50-22 Detail 45)	No	1	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Cash hall fittings</u></b>				
1	Table 1,802 x 0,850m wide (Refer to drawing 1052/50-21)	No	8		
2	Cash hall writing counter 3 000 x 300mm wide (Refer to drawing 1052/50-22 Detail 45)	No	1		
3	4,850mm Long on elevation Cash hall counter, writing counter and 28mm bullet resistant glass into aluminium frame complete (Refer to drawing 1052/50-22 detail 44)	No	1		
4	"Mutual Austen Safes" or similar approved 135mm deep stainless steel bank type transfer tray let into 32mm post formed Oak counter top	No	3		
	<b><u>Accused stand</u></b>				
5	4,000m Long Accused stand unit complete (Refer to drawing 1052/50-19 Detail 41)	No	1		
6	2,770m Long Accused stand unit complete (Refer to drawing 1052/50-20 Detail 42)	No	1		
7	Dividing wall extended from accused complete (Refer to drawing 1052/50-20 Detail 42)	m	5		
8	Extra over dividing wall for access door complete (Refer to drawing 1052/50-20 Detail 42)	No	2		
	<b><u>Public seating benches</u></b>				
9	1,650m Long Bench complete including varnish (Refer to drawing 1052/50-17)	No	5		
10	2,40m Long Bench complete including varnish (Refer to drawing 1052/50-17)	No	6		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Public waiting benches</u></b>				
1	1,540mm long slatted bench with backrest (Refer to drawing 1020/50-02)	m	3		
2	2,040mm long slatted bench with backrest (Refer to drawing 1020/50-02)	m	6		
	<b><u>Magistrates benches</u></b>				
3	4,284m Wide desk unit complete (Refer to drawing 1052/50-14 and 15)	No	1		
4	7,290m Wide desk unit complete (Refer to drawing 1052/50-18)	No	1		
5	"Mutual Austen Safes WL3 " or similar approved 295 X 250mm stainless steel records type safe bolted to floor with 4 x M16 rawl bolts	No	2		
	<b><u>Witness stand</u></b>				
6	1,666m Wide witness stand complete (Refer to drawing 1052/50-16 Detail 35)	No	2		
	<b><u>Courtroom tables</u></b>				
7	Table 1,660 x 0,750m wide (Refer to drawing 1052/50-16 Detail 34)	No	4		
8	L-Shaped Lectern table 3,690mm x 1,464mm x 0,750m wide complete (Refer to drawing 1052/50-12)	No	1		
	<b><u>Book shelving</u></b>				
9	Book shelving unit 2100 x 380mm deep x 1200mm wide (Refer to drawing 1052/50-13 Detail 29)	No	9		
10	Book shelving unit 2100 x 450mm deep x 1200mm wide (Refer to drawing 1052/50-13 Detail 30)	No	15		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Acoustic Panelling</u></b>				
1	Framed Acoustic Panel size 1,542m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
2	Framed Acoustic Panel size 4,284m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
3	Framed Acoustic Panel size 4,330m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
4	Framed Acoustic Panel size 4,920m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
5	Framed Acoustic Panel size 5,790m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
	<b><u>Ablution Fittings</u></b>				
6	3,572m x 0,615m wide Basin vanity (Refer to drawing 1052/50-09 Detail 26)	No	2		
7	1,810m x 0,615m wide Basin vanity (Refer to drawing 1052/50-11 Detail 22)	No	2		
8	2,425 x 0.700m wide Baby change counter (Refer to drawing 1052/50-01 Detail 2)	No	1		
	<b><u>Security and SOS</u></b>				
9	Security desk, including shop fronts to sides of turnstiles, cladding finish to brick wall, worktop and sub frame, security panel frames, frameless safety glass and lower level bulkheads (Refer to drawing 1052/50-23, 24 and 25)				
	(Turnstiles, metal detector, x-ray scanner, disabled door and sidelights elsewhere measured)	No	1		
10	1,859 x 0.600m deep Office cabinet (Refer to drawing 1052/50-09 Detail 17)	No	4		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Book shelving unit 2100 x 450mm deep x 2000mm wide (Refer to drawing 1052/50-13 Detail 30)	No	4		
	<b><u>Magistrates Offices</u></b>				
2	1,700 x 0.600m deep Toilet cabinet (Refer to drawing 1052/50-09 Detail 13)	No	2		
3	3,062 x 0.600m deep Office cabinet (Refer to drawing 1052/50-09 Detail 16)	No	2		
4	1,400 x 0.600m deep Kitchen cupboard including 0.7m x 0.45m deep microwave shelf (Refer to drawing 1052/50- 09 Detail 56)	No	2		
5	1,200 x 0.600m deep Wardrobe (Refer to drawing 1052/50-09 Detail 12)	No	2		
	<b><u>Kitchenette</u></b>				
6	L-Shaped kitchen cupboard 1,833mm x 1,461mm x 0,600m wide complete (Refer to drawing 1052/50-11 Detail 21)	No	1		
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<b><u>BILL NO. 7</u></b>			
<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Descriptions</u></b>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 129			
<b><u>CEILINGS, ETC</u></b>			
<b><u>NAILED UP CEILINGS</u></b>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>4mm Thick fibre cement plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, fixed to 38 x 50mm battens</u></b>			
1	Ceilings consisting of 38 x 50mm battens fixed to timber tie beams at 400mm centres, ceiling boards fixed to battens using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered with and including 8 x 40mm wrought meranti cover strips, all in accordance with the manufacturer's recommendations.	m2	319	
2	Raked ceilings consisting of 38 x 50mm battens fixed to timber tie beams at 400mm centres, ceiling boards fixed to battens using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered with and including 8 x 40mm wrought meranti cover strips, all in accordance with the manufacturer's recommendations.	m2	124	
3	Extra over ceiling for opening for 900 x 900mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	8	
	<b><u>SUSPENDED CEILINGS</u></b>			
	<b><u>Vinyl cladding lay-in grid ceiling system with 595 x 595 x 6mm thick straight edged Embossed White vinyl clad tiles, laid on double stitched slotted 38 mm white main tees at 600mm centres and white 38 mm cross tees at 600 mm centres, including all necessary grids, suspension plates, clips and holding down clips, fire expansion punch outs to main tees, etc. Suspend main tees using approved Pre-stretched Galvanised Hanger wire 2.5mm thick or approved hanger strap 19mm at 1200mm centres fixed to timber rafters at not exceeding 1 200 mm centres. Ceiling perimeter to be finished with white recessed wall angles, all in accordance with the manufacturer's recommendations.</u></b>			
4	6mm Ceilings suspended not exceeding 1 000 mm below timber trusses.	m2	225	
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Item		Quantity	Rate	Amount
1	Forming side of horizontal bulkheads, size 250mm deep, suspended not exceeding 1 000 mm below timber trusses.	m	64	
<b><u>EAVES, VERGES, ETC.</u></b>				
<b><u>6mm thick fibre cement plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, fixed to 38 x 50mm battens</u></b>				
2	Eaves , Verges and Verandah Ceilings consisting of 38 x 50mm battens fixed to timber tie beams at 450mm centres, ceiling boards fixed to battens using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered with and including 8 x 40mm wrought meranti cover strips, all in accordance with the manufacturer's recommendations.	m2	193	
<b><u>Gypsum plasterboard cornice</u></b>				
3	125mm Cove consisting of a fire resistant gypsum plaster core encased in special paper, nailed with galvanised nails at 300mm centres to the wall and at 450mm centres through the board into the branderling. The head of the nail must not break the paper of the cove.	m	361	
4	Hardwood standard skirting as cornice, size 19 x 76mm plugged and countersunk screwed and pelleted to wall at 400mm centres at intersection of slabs .	m	202	
<b><u>RAISED ACCESS FLOORING</u></b>				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Steel stud partitioning with firestop board on both sides and fibreglass blanket between (1 hour fire rating)</u></b>			
1	1hr fire rating (A) partitioning system comprising steel studding formed of 63,5mm top and bottom tracks with vertical studs at maximum 600mm centres, friction fitted or pop riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with 12,5mm Fire stop Taper edge boards screwed to studding with "Drywall" screws at maximum 220mm centres. Boards are to be butt jointed and finished with "Fibatape" and "Rhinoglide" jointing compound all in accordance with the manufacturer's instructions. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape etc.  In cavity install 63mm thick self-supporting non-combustible lightweight, glass tissue faced Glasswool 'cavitybatt insulation,' offering a thermal resistance value of 1.66m <sup>2</sup> K/W for heat and acoustic control. Install strictly in accordance to manufacturers specifications.	m2	170	
	<b><u>NATURAL ANODISED ALUMINIUM</u></b>			
2	Extra over partition for aluminium vertical abutment	m	45	
3	Extra over partition for aluminium corner	m	10	
4	Extra over partition for aluminium T-intersection	m	24	
5	Extra over partition for aluminium channel profile size, 63,5 x 30 x 2 mm thick around reveals of door and window openings to receive aluminium door and window frames.	m	35	
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<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 8</u></b>			
<b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Cleaning</u></b>			
Rates for floor covering shall include for stripping and proper cleaning on competition			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 130			
<b><u>FLOOR COVERINGS</u></b>			
<b><u>VINYL FLOOR TILES</u></b>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Approved semi flexible vinyl floor tiles, size 300 x 300 x 2.5mm thick, manufactured in accordance with SANS 581, laid in approved acrylic adhesive spread with a trowel fitted with an A2 notched blade at a rate of between 5.5m² and 6.5m² per litre on suitably prepared sub floor (elsewhere specified) in accordance with SANS 10070, using approved Self Leveller when required and rolled with 68kg three section metal roller on completion.</u>			
1	On smooth screeded floors.	m2	274	
	<u>Approved, size 608 x 608 x 2mm directional static dissipative vinyl tile laid in approved antistatic/conductive adhesive spread with a notched trowel on suitably prepared cement screed (elsewhere measured) with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u>			
2	On floors	m2	27	
	<u>Approved 2mm Thick fully flexible vinyl sheeting with welded joints, laid in an approved adhesive spread with a notched trowel on suitably prepared cement screed (elsewhere measured) using approved self leveller when required, with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u>			
3	On floors	m2	130	
	<b><u>POLISH, SEALERS, ETC</u></b>			
	<u>Scrub down with neutral detergent complying with SABS 825 and three coats water based floor dressing complying with SABS 1042 to:</u>			
4	Vinyl floor tiling.	m2	430	
	<b><u>CARPETING</u></b>			
	<b><u>Carpet Tiles</u></b>			
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<b><u>BILL NO. 9</u></b>			
<b><u>IRONMONGERY</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Finishes to ironmongery</u></b>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list			
BS      Satin bronze lacquered CP      Chromium plated SC      Satin chromium plated SE      Silver enamelled GE      Grey enamelled AS      Anodised silver AB      Anodised bronze AG      Anodised gold ABL      Anodised black PB      Polished brass PL      Polished and lacquered PT      Epoxy coated SD      Sanded			
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Item	Quantity	Rate	Amount
<b><u>Fixing</u></b>			
Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories			
Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 132			
<b><u>HINGES, BOLTS, ETC</u></b>			
<b><u>"Dorma or similar approved" ironmongery</u></b>			
1 DBB-SS-009 102 x 75 x 3mm stainless steel two ball bearing butt hinge	No 207		
2 DFB-SC-180/150 150mm Satin Chrome flush bolt with heel	No 26		
3 TS71/EN3-4 standard arm door closer - non hold open	No 18		
4 TS73V EN2-4 variable spring strength regular arm door closer	No 14		
5 TS73N/EN3-4 parallel arm door closer - DELAYING CLOSING - push side fitting	No 22		
6 BTS75R/EN2-5 Single action hold open floor spring complete with stainless steel cover plate 7411/56 bottom strap 7481 cover cap (handed) 7411K/56 top centre with 7483 cover caps for timber doors	No 8		
<b><u>LOCKS</u></b>			
7 DPL 1000 47mm Padlock MKD	No 12		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	D032D bathroom/WC dead lock SS	No	9		
2	D036S euro-profile cylinder sash lock SS	No	56		
3	D038R Rebate conversion kit for euro-profile locks SS	No	4		
4	DDC056501 NP 65mm five pin euro-profile double cylinder	No	56		
5	DWC-006 SS WC indicator with 79mm turn knob for physically impaired	No	2		
<b><u>HANDLES</u></b>					
6	CB75 lever handle on rectangular Euro cylinder backplate, 61mm centres	No	112		
7	DPH301C 150 x 19mm stainless steel "D" shaped straight bolt through pull handle	No	18		
8	DPH213 350 x 32mm stainless steel "D" shaped straight back-to-back pull handles	No	4		
<b><u>CATCHES, CABIN HOOKS, ETC</u></b>					
9	"Halstead" 166 cabin hook 150mm	No	9		
10	"Halstead" 401 floor mounted door holder	No	52		
11	DCE-002 SS euro-profile escutcheon	No	112		
12	DHC-SS-031B SS hat and coat hook with rubber buffer	No	26		
13	DJW Concealed fixing black rubber doorstop fitted to wall or floor	No	9		
14	"HOWICK" H057 Aluminium Robe hook	No	26		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>SUNDRIES</u></b>				
1	10 x 100mm Long dowels let half way into timber frames and fixed to concrete floors	No	94		
2	3 x 25mm Brass dividing strip	m	58		
3	DSS1 "Male" pictogram on 76mm diameter stainless steel plate	No	2		
4	DSS2 "Female" pictogram on 76mm diameter stainless steel plate	No	2		
5	DSS-135 stainless steel 150 x 150mm TEA CUP sign	No	1		
6	DSS3 "MALE/FEMALE" pictogram on 76mm diameter stainless steel plate	No	2		
7	DSS4 "Wheelchair" pictogram on 76mm diameter stainless steel plate	No	2		
8	DKP-22-164 300 x 150 x 1,2mm blank polished stainless steel push plate	No	49		
9	914 x 300 x 1,2mm blank polished stainless steel kick plate	No	4		
	<b><u>BATHROOM FITTINGS (SANS APPROVED)</u></b>				
10	Grade 304 32mm diameter 18/10 stainless steel grab rails with fine grip, size 550mm x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	4		
11	32mm diameter Grade 304 18/10 stainless steel cistern back grab rail, size 750 x 206mm wide with Fine Grip surface, plugged and screwed to the wall with stainless steel screws.	No	4		
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	32mm diameter Grade 304 18/10 stainless steel angle bars, size 256 x 618 x 95mm deep with Fine Grip surface, plugged and screwed to the wall with stainless steel screws.	No 4		
2	Standard stainless steel lockable two roll toilet paper dispenser	No 14		
3	Franke or similar approved 1,2mm Grade 304 18/10 stainless steel recessed type toilet roll holder (Code:2120037), size 155mm diameter x 260mm deep, unit recessed into wall and bolted with 2No. M10 threaded bolts.	No 3		
4	Standard stainless steel paper towel dispenser	No 18		
5	Standard stainless steel soap dispenser	No 12		
6	Stainless steel sanitary bin with double flip lid, removable cartridge, disposable insert and locking mechanism, overall size 180 x 345 x 520mm high plugged and screw to wall with stainless steel screws.	No 4		
7	Standard vanity shelf to disabled toilet	No 4		
8	600 x 600 x 0.9mm Thick bright annealed mirrored stainless steel wall mirror, plugged and screwed to walls with chromed screws with and including screw caps	No 21		
	<b><u>Venetian Blinds</u></b>			
9	0.60 x 0.60m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No 2		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	1.00 x 0.98m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	1		
2	0.60 x 1.80m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	1		
3	0.90 x 1.80m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	12		
4	1.15 x 1.80m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	23		
5	0.90 x 2.10m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	2		
<b><u>SIGNAGE</u></b>					
<b><u>Information Signs</u></b>					
6	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Male" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Female" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
2	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Male & Female" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
3	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Disabled" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
4	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Tea Cup" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
5	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Electrical" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
6	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Telkom" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
7	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Cleaner" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
8	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "No Entry" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6		
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1	Approved grade 304 Stainless Steel single sided landscape information sign, 450mm long x 80mm high with counter-sunk fixing holes plugged and screwed with aluminium screws to wall with bottom edge 2200 mm above floor level.	No	8		
2	Approved grade 304 Stainless Steel single sided landscape information sign, 600mm long x 80mm high with counter-sunk fixing holes plugged and screwed with aluminium screws to wall with bottom edge 2200 mm above floor level.	No	8		
3	Approved grade 304 Stainless Steel single sided landscape information sign, 800mm long x 80mm high with counter-sunk fixing holes plugged and screwed with aluminium screws to wall with bottom edge 2200 mm above floor level.	No	6		
4	Approved grade 304 Stainless Steel single sided landscape information sign, 600mm wide x 300mm high, suspended from ceiling with stainless steel cables 2200mm above finished floor level.	No	8		
5	Approved grade 304 Stainless Steel single sided landscape information sign, 600mm wide x 450mm high, suspended from 63mm stainless steel round tube with stainless steel cables 1000mm above ground level.	No	4		
<b><u>Escape Signs</u></b>					
6	Approved photo luminescent escape route signage, size 290 x 290mm, in SABS 1186 certified ABS plastic, with natural anodized aluminium frame hung from ceiling with stainless steel chains or cables.	No	6		
7	Approved engraved grade 304 Stainless Steel escape sign size 150 x 150 x 1,2mm with "Man running right" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6		
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1	Approved engraved grade 304 Stainless Steel escape sign, size 150 x 150 x 1,2mm with "Man running left" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6		
	<b><u>Fire signs</u></b>				
2	Approved photo luminescent fire signage, size 290 x 290mm, in SABS 1186 certified ABS plastic, with natural anodized aluminium frame, drilled, plugged and screwed with non-corrosive screws.	No	11		
3	Approved engraved grade 304 Stainless Steel fire sign, size 150 x 150 x 1,2mm with "Fire hose reel" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	5		
4	Approved engraved grade 304 Stainless Steel fire sign, size 150 x 150 x 1,2mm with "Fire extinguisher" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	11		
	<b><u>Artwork to Signage</u></b>				
	<b><u>30mm High, approved non-reflective self adhesive material, all in accordance with SANS 1519, colour black "ARIAL" bold font in capital letters or numerals, fitted to stainless steel plates.</u></b>				
5	Four letters or numerals	No	3		
6	Five letters or numerals	No	3		
7	Six letters or numerals	No	2		
8	Seven letters or numerals	No	2		
9	Eight letters or numerals	No	5		
10	Nine letters or numerals	No	5		
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1	Eleven letters or numerals	No	4		
2	Thirteen letters or numerals	No	3		
3	Fourteen letters or numerals	No	3		
4	Eighteen letters or numerals	No	3		
5	Nineteen letters or numerals	No	2		
6	Twenty letters or numerals	No	5		
7	Twenty One letters or numerals	No	2		
8	Twenty Two letters or numerals	No	2		
9	Twenty Four letters or numerals	No	2		
10	Twenty Five letters or numerals	No	3		
	<b><u>100mm High, approved non-reflective self adhesive material, all in accordance with SANS 1519, colour black "ARIAL" bold font in capital letters or numerals, fitted to stainless steel plates.</u></b>				
11	Twenty Five letters or numerals	No	1		
	<b><u>Welded signage support frames with one shop coat red oxide</u></b>				
12	63mm Diameter x 3mm thick mild steel hollow section post framework, 3,700mm long twice bent to form arch and fitted with 2(no) 150 x 150 x 8mm flange plate welded to bottom and embedded in 300 x 300 x 500mm mass concrete (15 MPa) base to protrude 50mm above ground level including all excavations and backfilling (total weight of framework = 19.50kg)	No	1		
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Ironmongery  
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**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 10</u></b>			
<b><u>METALWORK</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Descriptions</u></b>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 136			
<b><u>WELDED SCREENS, GATES, ETC</u></b>			
Carried to Collection			R
Section No. 3 - New Works Bill No. 10 Metalwork CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Purpose made burglar bars</u></b>			
1	Approved hot dip galvanised fixed external burglar guard, size 1400 x 800mm high comprising 25 x 25mm square tube frame, 12 x 12mm square tubing vertical bars and flights at maximum 100mm centres including all necessary extension pieces, flights, etc. fixed 100mm proud of wall with S37 coach bolts with snap-off nuts.	No	2	
	<b><u>Screenex or similar approved galvanised steel mesh overhead grilles (Refer to SAPS 5-Star drawing No. POL 2006/G1)</u></b>			
2	Horizontal Security screens, overall size 1700 x 1400mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
3	Horizontal Security screens, overall size 3000 x 5700mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
4	Horizontal Security screens, overall size 9500 x 3700mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
5	Horizontal Security screens, overall size 11000 x 1400mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
	<b><u>SUNDRY METALWORK</u></b>			
	<b><u>"Vitrex System 2000" or similar approved</u></b>			
6	Approved 2,50 x 1,50m Standard enamelled magnetic whiteboard, complete with aluminium frame and fixing brackets, fixed to walls as per manufacturers specification	No	5	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Approved standard 2.5 x 1.5m pinning board, complete with aluminium frame and fixing brackets, fixed to walls as per manufacturers specification	No	16	
	<b><u>SABS approved</u></b>			
2	200 x 200 x 300mm Internal dimensioned handgun safe with 2-key lock system	No	4	
	<b><u>DUCT COVERS</u></b>			
	<b><u>Purpose made duct covers</u></b>			
3	494 x 3005mm High duct cover complete, including barrel bolt and keep (Refer to drawing 1052/50-06 (Duct screens detail 9)	No	2	
4	1194 x 3005mm High overall duct cover complete, including barrel bolt and keep (Refer to drawing 1052/50-06 (Duct screen detail 9)	No	1	
	<b><u>DOORS</u></b>			
	<b><u>Doors</u></b>			
5	Service and reuse existing strongroom door	No	1	
	<b><u>GATES</u></b>			
6	Access control Gate, size 925 x 2000mm High Single Gate complete with all necessary ironmongery (Refer to drawing 1052/50-05 access Controlled Gate)	No	4	
7	Security Gate, size 1070 x 2100mm High Single Gate with fixed screened fanlight size 1300 x 900mm high complete with all necessary ironmongery (Refer to drawing 1052/50-05 Gate 2)	No	2	
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Item		Quantity	Rate	Amount
<b><u>TURNSTILES</u></b>				
1	Turnstar Triumph or similar approved 4-arm single full height turnstile electrical bi-directional revolving turnstile, overall size 1400 x 2125mm high in UV resistant polyester exterior powder coated mild steel finish colour Grey with 50mm diameter tube arms and rotation locking mechanism and perpetual base bearing, bolted to 25MPa concrete surface beds with 12No. M12 x 75mm countersunk anchor bolts and connected to 220V AC single phase power supply.	No	2	
<b><u>ROLLER SHUTTER DOORS</u></b>				
<b><u>Galvanised steel roller shutter doors:</u></b>				
<u>Note: The contractor is to check on site measurements before placing of order.</u>				
2	Approved galvanised and powder coated fixed gearbox operated steel roller shutter for opening 3000 x 3000 mm high opening (min. Headroom 350mm) with 130mm (normal) wide on free side and 220mm wide (normal) on operator side, with 0,8mm thick slats, 75mm wide side guides, with crank handle (radius 325mm), with neoprene weather strip to bottom edge and two barrel bolts and with slatted canopy cover..	No	1	
<b><u>WINDOWS</u></b>				
<b><u>Safety glazed visitors windows</u></b>				
3	Type G Visitors panel 0,70 x 1,00m high, including 6,38mm laminated safety glass, complete	No	1	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Cell steel windows</u></b>			
1	All prison windows are to be manufactured in accordance with the South African Police Services specifications and the Department of Public Works.Windows are to have a pressed metal surround.Internal and external security screens are to be included.Windows NEED NOT to be supplied with Manganese bars, prepared in accordance with given specifications.Steel cell window and frame size 850 x 940 mm high overall including internal and external fixed screens, mild steel lugs, glazing, padlocks, etc. as per Architects Window type F attached to the back of the Bills of Quantities.	No	10	
	<b><u>Hot dipped galvanised solid steel cell doors, grille gates and windows, all in accordance with SABS Specifications 763 - see PW 371 Section 13 Clause 13.1 to 13.3</u></b>			
2	All prison cell doors and grille gates are to be manufactured in accordance with the Department of Public Works specifications.  Solid steel door, frame and grille gate, overall size 1 018 x 2 020mm high as per standard SAPS project 5 star detail drawing no. POL 2012/D1, D2, D3, D4 & D5 installed strictly to manufacturers specification in 220mm thick solid brick walls as per Architects Door Type L attached to the back of the Bills of Quantities. (Locks by others)	No	3	
	<b><u>CELL DOOR AND GATE LOCKSETS</u></b>			
3	Allow the sum of R25,000.00 (Twenty Five Thousand Rand) for the Supply and Installation of cell locksets to be executed complete by a specialist subcontractor.		Item	25,000.00
4	Contractors profit and attendance on above item		Item	
	<b><u>STEEL, STRONG ROOM DOORS VENTILATORS, ETC</u></b>			
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Item		Quantity	Rate	Amount
<b><u>Hot Dipped Galvanised Strong Room Doors etc suitable for 220mm walls fixed to brickwork or concrete:</u></b>				
1	Double ended strong room ventilator built into wall.	No	1	
<b><u>GALVANISED STEEL TRANSFORMER ROOM DOOR LOUVRED UNITS.</u></b>				
2	Approved Single steel transformer room unit door with 3x heavy duty brass hinges and mild steel louvre grey oxide primed, overall size 815 x 2032mm high, fixed in accordance to manufacturers recommendations, to suit wall 230mm thick.	No	1	
<b><u>STAIR LIFT</u></b>				
SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----				
3	Allow the sum of R630,000.00 (Six Hundred and Thirty Thousand Rand) for the Supply and Installation of stair lifts to be executed complete by a specialist subcontractor.		Item	630,000.00
4	Allow for profit.		Item	
5	Allow for attendance.		Item	
<b><u>ALUMINIUM</u></b>				
The contractor is to make due allowance in his prices for complying with the following requirements.				
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>General:</u></b></p> <p>All aluminium windows and door frames are to meet the recommended performance requirements of (Class designation A2) as set out by the Association of Architectural Aluminium Manufacturers of South Africa, and proof of this is to be provided in the form of an AAAMSA performance certificate for each product.</p> <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p>			
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>Tolerances:</u></b></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><b><u>Protection:</u></b></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><b><u>Cleaning:</u></b></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p>			
<p><b><u>ALUMINIUM WINDOWS, DOORS, ETC.</u></b></p>			
<p style="text-align: right;">Carried to Collection</p>		R	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Aluminium windows able to meet the mechanical performance requirements of SANS 613 for wind loads of up to 2000Pa with surfaces to receive 60-80µm Charcoal Grey powder coating (for architectural applications), supplied by a manufacturer complying with SANS 1578 and applied in accordance with SANS 1796 by an approved applicator, glazing shall be "Smartglass" or similar approved X1 Residential Standard 6.38mm thick laminated safety glass and executed strictly in conformance with glass manufacturer's recommendations and SANS 10137:2011 all in accordance with SANS 10400 Parts B, N, XA, fitted in accordance with Casement 36 system</u>			
1	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 1200 x 600mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type A" attached to the back of the Bills of Quantities.	No	12	
2	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 600 x 600mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type B" attached to the back of the Bills of Quantities.	No	2	
3	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 600 x 600mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type C" attached to the back of the Bills of Quantities.	No	8	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 900 x 1800mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type D" attached to the back of the Bills of Quantities.	No	12	
2	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 900 x 2100mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type E" attached to the back of the Bills of Quantities.	No	2	
3	Aluminium fixed pane aluminium window, size 1715 x 400mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type M" attached to the back of the Bills of Quantities.	No	3	
4	Aluminium fixed pane aluminium window, size 1300 x 2860mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type N" attached to the back of the Bills of Quantities.	No	6	
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Item		Quantity	Rate	Amount
1	<p><u>Epoxy powder coated aluminium doors, fanlights and sidelights glazed as shown and plugged to brickwork or concrete</u></p> <p>Approved Custom Made Aluminium single door and aluminium sidelight, overall size 1790 x 2280mm, plugged and screwed to brickwork or concrete, all as per architects detail "Door type S" attached to the back of the Bills of Quantities.</p>	No	1	
Carried to Collection				R
<p>Section No. 3 - New Works</p> <p>Bill No. 10</p> <p>Metalwork</p> <p>CLARENCE BOBIE INCORPORATED</p>				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 11</u></b>				
<b><u>PLASTERING (PROVISIONAL)</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 142				
<b><u>SCREEDS</u></b>				
<b><u>Screeds on concrete</u></b>				
<b><u>Floor screed mix for concrete surface beds, composed of 1 part cement and 3 parts sand in thickness as indicated to concrete surface beds. Cement is to be manufactured in accordance with SANS 50197-1.</u></b>				
1	30 mm Thick on floors	m2	281	
2	35 mm Thick on floors	m2	432	
3	Screeds average 75mm thick laid to falls and currents	m2	48	
Carried to Collection				R
Section No. 3 - New Works Bill No. 11 Plastering (Provisional) CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>GRANOLITHIC</u></b>				
<b><u>Untinted granolithic on concrete: Granolithic mix for surface beds, composed of 1 part cement 2 parts sand and 1 part 5mm granite aggregate finished with a steel trowel in thickness as indicated to surface beds. Cement is to be manufactured in accordance with SANS 50197-1. Granolithic finish to be laid in panels of not more than 20 square metres with v-joints between panels and as necessary forming readings to stair treads and landings.</u></b>				
1	30mm Granolithic screed to floors	m2	1	
2	40 mm Thick on floors to falls and currents	m2	141	
3	75mm on Existing external concrete floors	m2	46	
4	25 x 250mm High grano plaster skirting with rounded corners	m	160	
<b><u>INTERNAL PLASTER</u></b>				
<b><u>Crack and surface to be clean, sound and dry, insert injection nipples and seal crack with epidermix 372 and inject epidermix 389 into crack, all in accordance with the manufacturer's instructions.</u></b>				
5	In hairline cracks in existing walls, including chipping out of cracks in preparation for application	m	70	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p><u>All surfaces should be clean, sound and free from contamination, laitance, loose particles. Spalling or flaking material must be removed by thorough wire brushing followed by the removal of debris by means of a soft brush. Suspect surfaces may be mechanically keyed down to virgin surfaceS (randomly), which will ensure good bonding. Fix chicken mesh to the wall with 4-5mm rawl-plugs at 300mm c/c. Coat the surface with a bonding agent. Whilst the bonding agent is still wet, apply a scratch coat of lime plaster. Lime plaster dry mix ratio: 1 : 1 Plaster lime plaster mix 10mm - 20mm thick, finished with a wood float. Manufacturer's mix to take precedence. Cement is to be manufactured in accordance with sans 50197-1 and sand to conform to sans 1083:1994.</u></p> <p><u>Render in cement plaster with a steel trowel on:</u></p>			
1	Existing walls in patches including keying out mortar joints in preparation.	m2	606	
2	Existing walls including keying out mortar joints in preparation.	m2	191	
3	Existing walls in narrow widths not exceeding 300 mm wide.	m	1	
	<p><u>Plaster in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in plaster with smooth finish to be mixed to the ratio of 1 part cement: 3 parts sand, (sand to conform to SANS 1083:2006) to interior dry brickwork.</u></p> <p><u>Render in cement plaster with a steel trowel</u></p>			
4	Walls.	m2	1,628	
5	Walls in narrow widths not exceeding 300 mm wide.	m2	74	
	<u>Cement plaster on concrete</u>			
6	On soffits of slabs	m2	189	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	On exposed sides of concrete beams	m2	129		
	<u>Gyproc CreteStone applied to concrete surface. Wash concrete surfaces with a cleansing agent to remove grease and oil. Rinse with water until all traces of cleansing agent are removed. Apply first coat of Grippon plaster bonding liquid using a paint roller. Allow it to dry. Apply a second coat of Grippon plaster bonding liquid using a paint roller. While the second coat of Grippon plaster bonding liquid is still tacky/wet apply Apply Gyproc CreteStone to a minimum thickness of 3mm to 6mm thick and finish off with steel trowel.</u>				
2	On underside of concrete ceiling.	m2	189		
	<b><u>EXTERNAL PLASTER</u></b>  <u>Crack and surface to be clean, sound and dry, insert injection nipples and seal crack with epidermix 372 and inject epidermix 389 into crack, all in accordance with the manufacturer's instructions.</u>				
3	In hairline cracks in existing walls, including chipping out of cracks in preparation for application	m	52		
	<u>Plaster in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in plaster with smooth finish to be mixed to the ratio of 1 part cement: 3 parts sand and 3 part water: 1 part Plastergrip adhesive (sand to conform to SANS 1083:2006) to exterior dry plaster.</u>  <u>Render in cement plaster finished with a steel trowel on:</u>				
4	Existing walls in patches including keying out mortar joints in preparation.	m2	8		
5	Existing walls including keying out mortar joints in preparation.	m2	35		
Carried to Collection					R
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Item		Quantity	Rate	Amount
<u>Plaster in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in plaster with smooth finish to be mixed to the ratio of 1 part cement: 4,5 parts sand, (sand to conform to SANS 1083:2006) to exterior dry brickwork</u>				
<u>Render in cement plaster finished with a steel trowel</u>				
1	On walls.	m2	421	
2	In narrow widths.	m2	7	
<u>Cement plaster on concrete.</u>				
3	On exposed sides concrete columns	m2	84	
4	On exposed soffits of concrete beams	m2	3	
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Section 3

Bill No. 11

Plastering (Provisional)

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<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><b><u>Fixing</u></b></p> <p>Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere</p> <p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 144</p> <p><b><u>WALL TILING</u></b></p>			
<p>Carried to Collection</p>		R	
<p>Section No. 3 - New Works</p> <p>Bill No. 12</p> <p>Tiling</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>Allow the Prime cost amount of R180.00/m2 for the supply of Ceramic wall Tile, fixed to wood floated screed (elsewhere) with and including an approved tile adhesive mixed with an approved bonding liquid in lieu of water, with minimum 2 mm joints continuous in both directions grouted with and including an approved tile grout with minimum 3 mm expansion joints at perimeter, all structural expansion and construction joints at maximum 5 m centres internally and at 3 m centres externally, in both directions.</u>				
1	Walls	m2	556	
2	Walls in narrow widths not exceeding 300 mm wide.	m2	19	
<b>FLOOR TILING</b>				
<u>Allow the Prime cost amount of R180.00/m2 for the supply of Ceramic Floor Tile, fixed to wood floated screed (elsewhere) with and including an approved tile adhesive mixed with an approved bonding liquid in lieu of water, with minimum 2 mm joints continuous in both directions grouted with and including an approved tile grout with minimum 3 mm expansion joints at perimeter, all structural expansion and construction joints at maximum 5 m centres internally and at 3 m centres externally, in both directions.</u>				
3	On floors	m2	139	
4	Skirtings 150mm high	m	210	
Carried to Collection				R
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Section 3

Bill No. 12

Tiling

**COLLECTION**

Total from page

Page

Amount

130

131

Carried to Summary of Section 3

R

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 13</u></b>			
<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
G7 Natural gravel in layers not exceeding 150 mm with a CBR of less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content			
<b><u>Fixing</u></b>			
Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories			
Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer			
<b><u>Chasing</u></b>			
Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes			
Carried to Collection			R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Stainless steel sanitary fittings</u></b>  Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable  <b><u>Waste unions</u></b>  Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings			
Carried to Collection		R	
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Item		Quantity	Rate	Amount
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 148				
<b><u>Seamless powder-coated aluminium rainwater gutters, etc, fixed strictly in accordance with manufacturer's instructions</u></b>				
1	150mm x 100mm x 0.80mm Thick "Ogee" eaves gutters, on and including gutter brackets at not exceeding 600mm centres.	m	259	
2	Extra over eaves gutter for closed end.	No	30	
3	Extra over eaves gutter for internal and external bends.	No	16	
4	Extra over eaves gutter for outlet with nozzle for 105 x 70mm pipe.	No	45	
5	105 x 70mm x 0.80mm Thick rectangular fluted rainwater downpipes, fixed with and including holderbats to walls at not exceeding 1,5m centres.	m	218	
6	Extra over downpipes for 600 mm eaves projection.	No	15	
7	Extra over downpipes for 300 mm eaves projection.	No	30	
8	Extra over rainwater pipe for bend	No	45	
9	Extra over rainwater pipe for shoe.	No	45	
10	Approved galvanised iron wire balloon grating in 105 x 70mm outlet of gutter	No	45	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>2mm Thick galvanised mild steel rainwater goods</u></b>			
1	Box gutter two times bent to approximately 1 050mm girth with welded joints including fixing in position on top chord of truss and including approved metal brackets.	m	34	
2	Extra over box gutter for closed end.	No	8	
3	Extra over box gutter for outlet with nozzle for 150mm diameter PVC pipe.	No	5	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>Stainless steel</u></b>			
4	<p>Franke Projectline or similar approved Model PLN611 Grade 304 18/10 polished stainless steel single end bowl inset sink (Code: 1990030), overall size 800 x 460mm with one 340 x 370 x 140mm deep bowl.</p> <p><u>Sink to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>1 x Hansgrohe logis Chrome or similar approved 160 kitchen mixer (Code: 71832003) with a maximum flow rate of 7.00 L/min</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	3	
	Carried to Collection			R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Vandal-Proof Stainless Steel</u></b>			
1	OVE Model OSPA1 or similar approved vandalproof W.C. manufactured in 1,2 mm Grade 304 AISI (18/10) stainless steel with a 180 grid No. 4 satin finish, with 100 mm diameter full flow "P" trap, 38mm diameter flush pipe (through 540mm walls) and approved junior type flushmaster, brass back entry non hold open flush valve with integral vacuum flush pipe, bend and pan connector, all connections external, including fixing toilet pan to floor and against walls with sleeve anchors, all in accordance to manufacturers instructions.	No	3	
2	OVE Model OSB1A/125 or similar approved 1,2mm Grade 304 18/10 stainless steel SAPSDF combination wash hand basin & drinking fountain (Code:2520011), size 370 x 125 x 490mm high with 40mm concealed waste outlet, unit recessed 125mm into wall, complete with Hansgrohe Chrome S shut-off valve for concealed installation (Code: 15972000) or similar approved push action type valve and 38mm CP brass waste outlet, built into wall with front face lining up with the wall finish in accordance with manufacturers instructions.	No	3	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Vitreous China</u></b>			
1	<p>Approved vitreous china wall hung basin colour White, overall size 510 x 405mm with three semi-punched tap holes including integrated overflow and chain stay hole, bolted to wall with 2No.10mm bolts and sealed with silicone sealant where basin meets wall.</p> <p><u>Wash hand basin to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>2 x 15mm chrome plated square elbow action pillar tap, cast fixed outlet, mounting kit and angle valves, manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	4	
	Carried to Collection		R	
	<p>Section No. 3 - New Works</p> <p>Bill No. 13</p> <p>Plumbing And Drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	<p>Duravit Philippe Starck 3 wash hand basin or similar approved colour White (Code: 030055 0000), size 550 x 430 x 190mm deep with taphole, overflow, fixed with screws and washers to plugs in wall and sealed with abe Dow Corning 785 acetoxysilicone sealant where basin meets wall.</p> <p><u>Wash hand basin to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>1 x Hansgrohe logis Chrome 100 or similar approved Single lever basin mixer without waste set (Code: 71101003) with a maximum flow rate of 5.00 L/min.</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	2	
2	<p>Duravit Starck 2 drop in vanity basin colour White-00 (Code: 2327480000) or similar approved, overall size 485 x 485 x 190mm, installed in accordance with the manufacturers recommendations.</p> <p><u>Wash hand basin to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>1 x Hansgrohe logis Chrome 100 or similar approved Single lever basin mixer without waste set (Code: 71101003) with a maximum flow rate of 5.00 L/min.</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	12	
Carried to Collection				R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Vaal Sanitary ware Protea Paraplegic vitreous china floor mounted paraplegic wash down suite colour White (Code: 750246), comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern, including lid, fitments (Code: 710631) and purpose-made chromium plated side flush lever and BEMIS 7500 economy double flap thermoset seat.	No	4		
2	Duravit or similar approved Philippe Starck 3 WC colour White (Code: 012409 0000), size 360 x 560mm with SoftClose seat (Code: 006389 0000), screwed with stainless steel screws to plugs in floor with foot of bowl sealed to floor with abe acetoxo silicone sealant, with and including Geberit or similar approved pneumatic duct cistern (Article No. 110.792.00.1) including Sigma standard cover plate (Article No. 115.768.46.1) in matt chrome plated finish, with Type 01 round single-flush pneumatic actuator (Article No. 116.041.46.1) in matt chrome plated finish, to be fixed with included fastening materials, all to manufacturers specification and conditional guarantee.	No	10		
3	Duravit Starck 3 Urinal colour White Alpin (Code: 082725 0000) or similar approved size 245 x 300mm, fixed to wall with 2No. 8 x 120mm mounting bolts with and including GROHE 20mm diameter Chrome Rondo Control Cap Urinal Flush Valve or similar approved with integrated stop valve for exposed installation (Code: 37342000) with control cap, 1 - 4L flush volume, 0,5 - 5 bar flow pressure, flow rate adjustment, escutcheon, integrated stop valve and water supply connection to and including plastic flush pipe.	No	4		
	<b><u>Brass</u></b>				
4	15mm Bibcock with hose union	No	4		
	<b><u>SANITARY PLUMBING</u></b>				
	Carried to Collection			R	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>uPVC pipes</u></b>				
1	50mm Pipes	m	76	
2	110mm Pipes	m	60	
<b><u>Extra over uPVC pipes for uPVC fittings</u></b>				
3	50mm Bend	No	55	
4	50mm Access bend	No	24	
5	50mm Access junction	No	12	
6	110mm Access bend	No	17	
7	110mm Pan connector	No	17	
8	110mm Junction	No	17	
9	110mm "GI two-way" vent valve	No	7	
<b><u>Sundries</u></b>				
10	Testing waste pipe system		Item	
<b><u>WATER SUPPLIES</u></b>				
<b><u>Class 460/2 copper pipes</u></b>				
11	15mm Pipes	m	176	
12	22mm Pipes	m	54	
13	28mm Pipes	m	36	
<b><u>Extra over class 460/2 copper pipes for conex compression fittings</u></b>				
14	15mm Fittings	No	184	
Carried to Collection				R
Section No. 3 - New Works Bill No. 13 Plumbing And Drainage (Provisional) CLARENCE BOBIE INCORPORATED				

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	22mm Fittings	No	18		
2	28mm Fittings	No	18		
	<b><u>TESTING</u></b>				
3	Testing water pipe system		Item		
	<b><u>ELECTRIC WATER HEATERS</u></b>				
4	Zip or similar approved white powder coated 10 litre Hydro boil (Code: 2610012), size 340 x 205 x 630mm high with instant boiling water, two way tap control, SK3 drip tray (Code: 2120112) with SK3 bracket (Code: 2120114), connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee.	No	3		
	<b><u>FIRE APPLIANCES, ETC</u></b>				
5	Standard 4,5 kg dry powder rechargeable, to comply with SANS 1910 complete with approved lockable break glass fibreglass box, installed, maintained and serviced by competent persons with SANS 1475-1 and SANS10105-1 9as stated in SANS 10400-T:2011), plugged and screwed	No	11		
	<b><u>LAGGING</u></b>				
	<b><u>"Thermaflex" pipe insulation</u></b>				
6	Insulation to 28mm pipe and couplings	m	36		
7	Extra for wrapping around fittings	No	18		
Carried to Collection					R
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Plumbing And Drainage (Provisional)

Amount

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R

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 14</u></b>				
<b><u>GLAZING</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 150				
<b><u>GLAZING TO WOOD WITH PINNED ON BEADS (BEADS ELSEWHERE)</u></b>				
<b><u>6,38mm thick Smartglass or similar approved residential standard laminated safety glass, complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, glazed in accordance with NBR N schedule 1 and SABS 0137.</u></b>				
1	Panes exceeding 0.1 and not exceeding 0.5m2	m2	58	
2	Panes exceeding 0.5 and not exceeding 1m2	m2	10	
Carried to Summary of Section 3				R
Section No. 3 - New Works Bill No. 14 Glazing CLARENCE BOBIE INCORPORATED				

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Item	Quantity	Rate	Amount
<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>PAINTWORK (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 152</p> <p><b><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></b></p> <p><b><u>Plascon paint or other approved</u></b></p> <p><b><u>ON PLASTER</u></b></p>			
<p>Carried to Collection</p>		R	
<p>Section No. 3 - New Works</p> <p>Bill No. 15</p> <p>Paintwork (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Remove loose and peeling paint by scraper or hand sanding. Feather edges and dust off. Spot prime bare areas with approved wood primer (unthinned). Ensure surfaces are clean, dry and sound. To determine the moisture content, use a Doser Hygrometer scale A1 - A5 (or equivalent) depending on generic wood type. Measurements should be &lt;14% before painting. Sand wood to a smooth finish with 150 grit paper in direction of grain. Dust off.</u>  <u>Prime with one coat approved undercoat with an over coating time of 8 hours and finish with two coats approved super universal enamel paint with 16 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>				
1	On general surfaces of existing exposed trusses	m2	47		
2	On existing doors	m2	60		
3	On existing windows	m2	99		
4	On frames, skirtings, rails, etc not exceeding 300mm girth	m	457		
	<b><u>ON METAL</u></b>				
	<u>Clean previously painted surfaces using a scrubbing brush with Polycell Sugar Soap solution - 500g Polycell Sugar Soap Powder (501703) dissolved in 5 litres water to remove surface contaminants. Rinse with water to remove all traces of Sugar Soap and allow drying. Sand previously painted gloss surfaces to a matt finish and dust off.</u>  <u>Apply one coat of Metal Primer (UC 170) to achieve a continuous film. Allow 36 hours to dry and finish with two coats Velvagio Water Based (VLW) ( Colour : Charcoal Grey) with 4 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u>				
5	On strongroom doors and frames	m2	8		
	Carried to Collection			R	
	Section No. 3 - New Works Bill No. 15 Paintwork (Provisional) CLARENCE BOBIE INCORPORATED				



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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	On steel gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	99		
	<u>Plascon Nuroof Cool Acrylic Roof Paint to existing coated exterior galvanised steel</u> <u>Clean entire surface with Sugar Soap using bristle brooms or brushes or pads to remove all surface contaminants, rinse with tap water and allow to dry. Remove loose and flaky paint and sand surface to a firm edge, feather edges and dust off. Emery paper any rust areas to bright metal and remove dust. Spot prime bare areas with approved red oxide and allow 1 hour to dry. Finish with two coats Nuroof Cool Acrylic Roof Paint Ashen sky (TRP 214) with 2 hours drying time between coats, for a maintenance cycle of 12 years in a C1 - inland environment.</u>				
2	On corrugated iron roof sheeting (measured on slope)	m2	622		
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>  <u>Plascon paint or other approved</u>  <b><u>ON PLASTERED SURFACES</u></b>  <u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat approved Plaster Primer with an over coating time of 16 hours and finish with two coats Wall &amp; All or approved equivalent with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>				
3	On internal walls.	m2	1,574		
	<u>Prepare and apply two coats approved epoxy enamel coating including approved primer for porous surfaces, all in accordance with the manufacturer's instructions.</u>				
4	On internal plastered walls	m2	307		
5	On soffits of concrete slab.	m2	124		
	Carried to Collection			R	
	Section No. 3 - New Works Bill No. 15 Paintwork (Provisional) CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat approved Plaster Primer with an over coating time of 16 hours and finish with two coats Micatex or approved equivalent with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>			
1	On external walls.	m2	531	
2	On exposed sides and soffits of plastered concrete beams.	m2	16	
	<u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat Plaster Primer (UC56) with an overcoating time of 16 hours and finish with two coats Wall &amp; All (WAA 1) (Colour: White) with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>			
3	On soffits of concrete slab.	m2	65	
	<b><u>ON FIBRE-CEMENT</u></b>			
	<u>Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment on:</u>			
4	On ceilings and cornices.	m2	637	
Carried to Collection				R
Section No. 3 - New Works				
Bill No. 15				
Paintwork (Provisional)				
CLARENCE BOBIE INCORPORATED				

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	On sills not exceeding 300mm girth.	m	17		
2	On fascias and barge boards.	m2	201		
<b><u>ON WOOD</u></b>					
<b><u>Surface to be dry, sound and clean. Wash knots and resinous areas with lacquer thinners and coat with approved knot sealer and apply one coat of approved wood pretreatment, over coated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) &lt; 14% or less.</u></b>					
<b><u>Prime with one coat approved undercoat with an over coating time of 8 hours and finish with two coats approved super universal enamel paint with 16 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u></b>					
3	On doors (all surfaces measured).	m2	196		
4	On windows (all surfaces measured).	m2	8		
5	On frames, skirtings, rails, etc not exceeding 300mm girth	m	894		
6	On general surfaces of timbers at eaves.	m2	12		
<b><u>Two coats wood primer on:</u></b>					
7	On backs of frames, linings, etc not exceeding 300mm wide.	m	894		
<b><u>ON SMOOTH CONCRETE</u></b>					
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Woodoc 45 or similar approved Tile and Cement Sealer to new exterior concrete. Ensure surfaces are clean from dust, oil, wax, grout or other sealer. If washed, let surface dry completely (at least 8 hours). Apply three coats Woodoc 45, with 24 hours drying time between coats, for a maintenance cycle of 12 - 18 months in a C1 - inland environment.</u>				
1	On wood floated floors.	m2	46		
	<b><u>ON PVC PIPES</u></b>				
	<u>Lightly sand with abrasive paper, leaving surface clean and dust free.</u>				
	<u>Prime surface with one coat Supergrip (Code: D35) with an overcoating time of 12 hours and finish with two coats Gloss Enamel (Code: D27) with an overcoating time of 18 hours.</u>				
2	On posts, rails, bars, pipes, etc. not exceeding 300mm girth	m	120		
	<b><u>ON METAL</u></b>				
	<u>Surface to be dry, sound and clean. Apply Galvanised Iron Cleaner (GIC 1) to all bare galvanised areas. Allow to react for 1 minute and rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water break-free.</u>				
	<u>Prime with one coat Galvanised Iron Primer (GIP 1) with an overcoating time of 24 hours and finish with two coats Super Universal Enamel (NY 1/G) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment on:</u>				
3	On steel gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	92		
Carried to Collection					R
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Item		Quantity	Rate	Amount
<p><u>Surface to be clean and dry. Remove surface contaminants using Metalcare Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3 of the same standard. Allow to dry completely and prime within 4 hours of cleaning.</u></p> <p><u>Prime with one coat Metalcare Metal WB Primer (MWP1) with an overcoating time of 8 hours and finish with two coats Velvagio Water Based (VLW) Colour : Black) with 4 hours drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.</u></p>				
1	On strong room doors and frames	m2	5	R
Carried to Collection				
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Section 3  
Bill No. 15  
Paintwork (Provisional)

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4	Waterproofing	68		
5	Roof Coverings, Etc	72		
6	Carpentry And Joinery	89		
7	Ceilings, Partitions And Access Flooring	95		
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>				
<b><u>BILL NO. 1</u></b>				
<b><u>STORMWATER DRAINAGE (PROVISIONAL)</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles see "Specification of materials and methods to be used - PW 371"				
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<b><u>NOTE:</u></b>				
Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item				
<b><u>SURFACE DRAINAGE</u></b>				
<b><u>Precast or in-situ concrete (Class 25) size 500 x 275mm open stormwater channels with 300 x 125mm deep half round-shaped waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths (not exceeding 1000mm), and reinforced as necessary for handling if precast, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u></b>				
1	Concrete stormwater channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	53	
2	Extra over for angle.	No	4	
3	Extra over for outlet	No	2	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>In-situ concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths (not exceeding 2,000mm), including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u></b>			
1	1000mm wide x 100mm 25Mpa open concrete stormwater channel with 1000mm wide x 50mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	19	
2	1200mm wide x 100mm 25Mpa open concrete stormwater channel with 1200mm wide x 50mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	10	
3	1200mm wide x 125mm 25Mpa open concrete stormwater channel with 1200mm wide x 75mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	53	
4	1000mm wide x 150mm 25Mpa open concrete stormwater channel with 1000mm wide x 100mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	46	
5	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc	No	19	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Extra over for widening concrete to form grouted pitching spreader 2000mm wide extreme, for a length of 1000mm and bedding 120mm diameter stone in concrete to falls including brushing concrete between stones.	No	2	
	<b><u>In-situ concrete (30MPa) open stormwater duct channels overall size 600 x 200mm having 400 x 100mm deep rectangular waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths (not exceeding 1500mm), including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u></b>			
2	Concrete stormwater channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	31	
3	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc	No	1	
4	Extra over for widening concrete to form grouted pitching spreader 1200mm wide extreme, for a length of 1000mm and bedding 120mm diameter stone in concrete to falls including brushing concrete between stones.	No	1	
	<b><u>Movement Joints, etc</u></b>			
	<b><u>Joint forming material in movement joints:</u></b>			
5	10mm Bitumen impregnated fibre board built in vertically or horizontally between concrete (Provisional).	m2	4	
	<b><u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>			
6	10mm Joints in floors or walls including raking out expansion joint filler as necessary (Provisional)	m	22	
Carried to Collection				R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>UNDER GROUND DRAINAGE</u></b>			
<b><u>Note : Work measured under this bill includes all plumbing and drainage outside the building perimeters.</u></b>			
<u>Trenching, Laying, backfilling, bedding, etc. of pipes</u>			
The <b>depth</b> of the trenches shall be a minimum of 1000mm below the finished road, paved or ground surface to the top of pipe <b>plus</b> the pipe diameter <b>plus</b> a minimum of 100mm deep below bottom of pipe.			
The <b>width</b> of the trench shall be a minimum of the pipe diameter <b>plus</b> 300mm to either side of the pipe. The contractors should make allowance for working space should it be required.			
<u>Compacted selected bedding:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 6mm. Depth of bedding minimum 100mm below pipe plus radius of pipe.			
<u>Compacted selected fill blanket:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 10mm. Depth of bedding minimum 300mm above pipe plus radius of pipe.			
<u>Compacted selected backfill:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200DB 3.2 with a maximum aggregate size to be 63mm. Depth of bedding minimum 650mm.			
Pipes shall be trenched, laid, bedded and carefully backfilled.			
Carried to Collection			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Stormwater drainage pipes to be uPVC Class 34 heavy duty drain pipe with seal ring socket joint complying with SANS 791:1986, laid to falls in ground including excavation of trenches, bedding, backfilling and compaction and disposal of surplus material. Trenches not exceeding 1 m deep shall be taken of such width as to provide a clearance of 300 mm on each side of the pipe or group of pipes. The width of the trench shall be increased by 100 mm for each successive depth of 1 m to a maximum width which provides a clearance of 500 mm on each side of the pipe or group of pipes.</u></b>			
1	160 mm Pipe not exceeding 1000 mm deep.	m	14	
2	Ditto exceeding 1000 mm not exceeding 2000 mm deep.	m	7	
	<b><u>uPVC drainage channels</u></b>			
3	160 mm Half round channel in bottom of inspection chamber.	m	1	
	<b><u>Extra over 160 mm uPVC pipe for:</u></b>			
4	160mm diameter x 22,5° long radius bend with socket joint with Anger-Lock seal.	No	2	
	<b><u>INSPECTION CHAMBERS, CATCHPITS, SUMPS, ETC. (gratings and covers elsewhere)</u></b>  Note : Prices for headwalls, sumps, catch pits, inspection chambers, inlets, etc. shall be deemed to include for all excavation, building in of pipe work, risk of collapse, backfilling and compaction.  -----			
	Carried to Collection		R	
	Section No. 4 - External Works			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Catch pits</u></b>			
1	Excavate for and build catchpit overall size 740 x 740 mm, exceeding 1000mm and not exceeding 2000mm deep internally with one brick sides in extra hard burnt stock bricks in (3:1) cement mortar on 740 x 740 x 100mm thick concrete (20 MPa) bottom slab, rendered out internally in (3:1) cement plaster with bottom benched up to self cleaning falls, including 740 x 740 x 100/75mm thick in-situ or precast concrete (30 MPa) surround, sloped inwards and rebated to receive 300 x 300mm grey iron grating and frame (elsewhere measured) finished smooth on all exposed surfaces with cement plaster laid flush with adjacent paving or finished ground level, including formwork, etc.	No	2	
	<b><u>GRATINGS, COVERS, ETC.</u></b>			
2	Light duty grey iron square dish grating cover and frame, size 300 x 300mm.	No	2	
	<b><u>Sundries</u></b>			
3	Medium duty VP4 Lifting key size x 1kg	No	1	
Carried to Collection				R
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Section 4

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Item	Quantity	Rate	Amount
<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>SOIL DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to "Department of Public Works:                      Specification of materials and methods to be used -                      PW371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Proprietary products shall be used as specified.                      Substitute products of similar quality and specification                      may only be used with prior approval by the Principal                      Agent</p>			
<p>Carried to Collection</p>		R	
<p>Section No. 4 - External Works                      Bill No. 2                      Soil drainage (Provisional)                      CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>NOTES:</u></p> <p>All reference to SANS specifications and code of practice, or any other standard specifications or codes of practice, including National Building Regulations, shall be as per the latest issues of such specifications and codes.</p> <p>All dimensions indicated on the layout drawing are in metres unless otherwise indicated.</p> <p>Construction of sewer mains and connections as per SANS 1200 DB, LB &amp; LD, project specifications and details as indicated.</p> <p>All sewer PVC-U pipes and fittings to be heavy duty class 34 per SANS 791.</p> <p>Air test required on all constructed sewer pipe lines in accordance with SANS 1200 7.2.1 air test to be done once 300mm backfill above pipe has been completed.</p> <p>Sewer pipes connecting washbay and refuse yard to the grease trap which fall under paved areas are to be concrete encased with 15 MPa/19mm concrete. 330x330mm for 110mm pipe and 48x480mm for 160mm pipe.</p> <p>Concrete pipes Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p>uPVC pipes and fittings Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings in compliance with SABS 791.</p>			
Carried to Collection		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 2</p> <p>Soil drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			



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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>uPVC pressure pipes and fittings Pipes for water supply shall be of the class stated in compliance with SABS 966. Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings. Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p>Copper pipes</p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016.</p> <p>Only compression fittings shall be used in ground.</p> <p>Brick inspection chambers, catchpits, etc. Descriptions of brick inspection chambers, catchpits, etc. shall be deemed to include excavations, concrete base/s, concrete coverslabs, brickwork, finishes internally and externally, channels, channel bends, channel junctions, concrete benching and step irons (where required), jointing to drains and backfilling, compaction, etc.</p>			
Carried to Collection		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 2</p> <p>Soil drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>SOIL DRAINAGE</u></b></p> <p><b><u>Note : Work measured under this bill includes all plumbing and drainage outside the building perimeters.</u></b></p> <p><u>Trenching, Laying, backfilling, bedding, etc. of pipes</u></p> <p>The <b>depth</b> of the trenches shall be a minimum of 1000mm below the finished road, paved or ground surface to the top of pipe <b>plus</b> the pipe diameter <b>plus</b> a minimum of 100mm deep below bottom of pipe.</p> <p>The <b>width</b> of the trench shall be a minimum of the pipe diameter <b>plus</b> 300mm to either side of the pipe. The contractors should make allowance for working space should it be required.</p> <p><u>Compacted selected bedding:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 6mm. Depth of bedding minimum 100mm below pipe plus radius of pipe.</p> <p><u>Compacted selected fill blanket:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 10mm. Depth of bedding minimum 300mm above pipe plus radius of pipe.</p> <p><u>Compacted selected backfill:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200DB 3.2 with a maximum aggregate size to be 63mm. Depth of bedding minimum 650mm.</p> <p>Pipes shall be trenched, laid, bedded and carefully backfilled.</p> <p><b><u>REMOVAL OF EXISTING WORK</u></b></p>			
Carried to Collection		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 2</p> <p>Soil drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Break up, disinfect and remove manholes pipes, etc.</u></b>			
1	Manhole size 500 x 1200 mm x not exceeding 1m deep internally to invert level formed of hard burnt one brick sides and including 150 mm thick mass concrete bottom benching, kerb on top including cast iron double seal cover and frame including all necessary filling of holes and compacting.	No	3	
2	Excavate for and remove existing 110mm diameter PVC sewer pipe average 800mm below surface, including backfilling trenches, etc.	m	70	
	<b><u>SEWER PIPES (SABS 1200 LD)</u></b>			
	<b><u>Earthworks</u></b>			
	<b><u>Site Clearance</u></b>			
3	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	118	
	<b><u>Soil drainage pipes to be uPVC Class 34 heavy duty sewer drain pipe with seal ring socket joint complying with SANS 791:1986, laid to falls in ground including excavation of trenches, bedding, backfilling and compaction and disposal of surplus material. Trenches not exceeding 1 m deep shall be taken of such width as to provide a clearance of 300 mm on each side of the pipe or group of pipes. The width of the trench shall be increased by 100 mm for each successive depth of 1 m to a maximum width which provides a clearance of 500 mm on each side of the pipe or group of pipes.</u></b>			
4	110mm Pipes vertically or ramped to cleaning eyes, etc. (no excavation)	m	21	
5	110 mm Pipe not exceeding 1000 mm deep.	m	147	
	Carried to Collection			R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Sewer Inspection Chambers etc</u></b>			
1	Manhole size 890 x 1040 mm x not exceeding 1m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2	
2	Manhole size 890 x 1040 mm x exceeding 1m and not exceeding 2m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2	
	Carried to Collection			R
	Section No. 4 - External Works			
	Bill No. 2			
	Soil drainage (Provisional)			
	CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Manhole size 1040 x 1340 mm x not exceeding 1m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	1	
2	Manhole size 1040 x 1340 mm x exceeding 1m and not exceeding 2m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2	
	<b><u>Covers etc</u></b>			
3	600 x 400 x 250/200mm thick precast or insitu concrete collar slab support block with and including cast iron 45 degree cleaning eye to suit 110mm sewer pipe including all excavations, bedding , etc.	No	7	
Carried to Collection				R
Section No. 4 - External Works				
Bill No. 2				
Soil drainage (Provisional)				
CLARENCE BOBIE INCORPORATED				

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Manholes, gulley traps, etc:</u></b>			
1	110mm uPVC Gulley trap and hopper with grid not exceeding 1000mm deep all set and encased in (20MPa) mass concrete to form kerb, finished smooth with plaster.	No 11		
	<b><u>Sundries</u></b>			
2	Medium duty VP4 Lifting key size x 1kg	No 2		
3	Manhole stepiron size 255 x 155mm x 1,7kg	No 14		
4	Excavate for, cut into existing manhole 900 mm deep to invert and insert 160 to 110 mm reducer.	No 1		
5	Extra over excavation for sewer trenches, manholes etc. in pickable material for excavation in soft rock.	m3 5		
6	Ditto in hard rock.	m3 1		
7	Unreinforced concrete encasing to 110mm horizontal pipe	m3 0.50		
8	Unreinforced concrete encasing to 110mm vertical pipe	m3 0.30		
	<b><u>Sewer connection</u></b>			
9	Search for, locate, inspect and clean municipal sewer manhole connection point	No 1		
	<b><u>TESTING, ETC.</u></b>			
10	Provide all necessary apparatus, water, etc. for and test the sewer reticulation to the satisfaction of the Architect/Engineer and Local Authorities.	Item		
	Carried to Collection		R	
	Section No. 4 - External Works			
	Bill No. 2			
	Soil drainage (Provisional)			
	CLARENCE BOBIE INCORPORATED			

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Section 4

Bill No. 2

Soil drainage (Provisional)

**COLLECTION**

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Soil drainage (Provisional)  
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**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>WATER SUPPLIES (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
SUPPLEMENTARY PREAMBLESNote : Work measured under this bill includes all plumbing and drainage outside the building perimeters.			
<b><u>NOTES:</u></b>			
All reference to SANS specifications and code of practice, or any other standard specifications or codes of practice, including National Building Regulations, shall be as per the latest issues of such specifications and codes.			
All dimensions indicated on the layout drawing are in metres unless otherwise indicated.			
Construction of domestic mains and connections as per SANS 1200 DB,L & LB, project specifications and details as indicated.			
Construction of concrete anchor and thrust blocks at bends, tee pieces, ends caps as per SANS 1200 L5.5			
Carried to Collection			R
Section No. 4 - External Works Bill No. 3 Water supplies (Provisional) CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

Item	Quantity	Rate	Amount
<p>and as per typical water details C5574/123.</p> <p>All domestic reticulation HDPE PE100 PN10 (SDR 17) pipes as per SANS 4427-5/ISO 4427-5.</p> <p>All domestic reticulation pipe types and sizes indicated on the layout drawings.</p> <p>HDPE pipes shall be jointed using mechanical-joint compression fitting as per SANS 14236/ISO 14236, class of fittings to suit relevant pipe class.</p> <p>Cast iron fittings for PVC-U pipes as per SANS 52842/EN 12842.</p> <p>Cast iron pipe saddles for PVC-U pipes as per SANS 1808-44.</p> <p>Contractor to locate existing water mains to be connected to.</p> <p>Temporary isolating valves, to suit proposed water mains size and class, to be installed as indicated by the Civil Engineer on site once connections to existing water mains have been completed.</p> <p>Hydraulic pipeline test to be done in accordance with SANS 1200 L. Pipes are to be tested 1.5 times the pipe pressure class measured at the lowest point of the pipeline.</p>			
Carried to Collection		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 3</p> <p>Water supplies (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>WATER SUPPLIES</u></b>				
<b><u>Note :</u></b>				
<u>Work measured under this bill includes all plumbing outside the building perimeters.</u>				
<u>Trenching, Laying, backfilling, bedding, etc. of pipes</u>				
The <b>depth</b> of the trenches shall be a minimum of 1000mm below the finished road, paved or ground surface to the top of pipe <b>plus</b> the pipe diameter <b>plus</b> a minimum of 100mm deep below bottom of pipe.				
The <b>width</b> of the trench shall be a minimum of the pipe diameter <b>plus</b> 300mm to either side of the pipe. The contractors should make allowance for working space should it be required.				
<u>Compacted selected bedding:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 6mm. Depth of bedding minimum 100mm below pipe plus radius of pipe.				
<u>Compacted selected fill blanket:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 10mm. Depth of bedding minimum 300mm above pipe plus radius of pipe.				
<u>Compacted selected backfill:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200DB 3.2 with a maximum aggregate size to be 63mm. Depth of bedding minimum 650mm.				
Pipes shall be trenched, laid, bedded and carefully backfilled to the satisfaction of the Engineer.				
<b><u>HDPE PE100 PN10 (SDR 17) pressure pipes</u></b>				
1	32mm Pipes laid in and including trenches	m	89	
Carried to Collection				R
Section No. 4 - External Works				
Bill No. 3				
Water supplies (Provisional)				
CLARENCE BOBIE INCORPORATED				

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

Item		Quantity	Rate	Amount
<b><u>HDPE PE100 PN10 (SDR 17) pressure pipes</u></b>				
1	50mm Pipes laid in and including trenches	m	279	
<b><u>Extra over HDPE pressure pipes for (class 16) HDPE mechanical joint compression fittings</u></b>				
2	32mm x 90° Elbow	No	2	
3	32mm x 1" x 90degree Female threaded elbow (with reinforced ring)	No	5	
4	32mm x 1¼" x 90degree Elbow with male threaded off take	No	2	
5	32 x 32mm Equal tee	No	2	
6	32mm End cap	No	1	
7	50mm 90° Elbow	No	9	
8	50mm x 2" x 90° Elbow with male threaded off take	No	1	
9	50mm x 2" Female adaptor (with reinforced ring)	No	20	
10	50mm x 2" Flange adaptor with metal ring	No	2	
11	50mm x 1¼" Clamp saddle for HDPE and uPVC pipes with female threaded off take (with reinforced ring)	No	2	
12	90mm x 2" Clamp saddle for HDPE and uPVC pipes with female threaded off take (with reinforced ring)	No	1	
13	50 x 50mm Equal tee	No	1	
14	50 x 32mm Reducing tee	No	6	
15	50mm Coupling	No	1	
Carried to Collection				R
Section No. 4 - External Works Bill No. 3 Water supplies (Provisional) CLARENCE BOBIE INCORPORATED				

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	50mm End cap	No	3		
2	1¾" BSP Threaded end cap	No	1		
3	2" BSP Threaded end cap	No	1		
4	Making good fitting, 1¼" BSP Threaded Plug	No	2		
	<b><u>Galvanised Mild Steel (GMS)/Cast Iron pipes and fittings as described to meter boxes, valve boxes and low level water tanks</u></b>				
5	150mm Long 50NB GMS medium duty pipe (SANS 62-1) flanged (DRILLING TABLE 1600/3 SANS 1123) on both ends	No	2		
6	500mm Long 50NB GMS Medium duty pipe (SANS 62-1) flanged (DRILLING TABLE 1600/3 SANS 1123) on the one end and threaded (SANS 1109-1 / ISO 7-1) on the other end	No	2		
7	500mm Long 50NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	17		
8	500mm Long 40NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	1		
9	500mm Long 20NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	1		
10	500mm Long 25NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	1		
11	20mm Galvanised Union-cone faced malleable cast iron fitting	No	1		
12	20mm Galvanised Hexagon nipple malleable cast iron fitting	No	2		
	Carried to Collection			R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	25mm Galvanised Union-cone faced malleable cast iron fitting	No	1		
2	25mm Galvanised Hexagon nipple malleable cast iron fitting	No	2		
3	40mm Galvanised Union-cone faced malleable cast iron fitting	No	1		
4	40mm Galvanised Hexagon nipple malleable cast iron fitting	No	2		
5	50mm Galvanised Union-cone faced malleable cast iron fitting	No	17		
6	50mm Galvanised Hexagon nipple malleable cast iron fitting	No	32		
7	50 x 50mm Galvanised Equal tee malleable cast iron fitting	No	3		
8	50 x 20mm Galvanised Reducing tee malleable cast iron fitting	No	1		
9	50 x 25mm Galvanised Reducing tee malleable cast iron fitting	No	1		
10	50 x 40mm Galvanised Reducing tee malleable cast iron fitting	No	1		
<b><u>Cast iron/Brass fittings as described to meter boxes, valve boxes and low level water tanks</u></b>					
11	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) ELSTER KENT H4010 or similar approved in line stainer with corrosion-resistant coating	No	1		
12	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) ELSTER KENT HELIX H4000 or similar approved bulk water meter with a corrosion-resistant coating	No	1		
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) mechanical back-flow prevention device (non-return valve) with a corrosion-resistant coating	No	1		
2	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) resilient seal waterworks or similar approved gate valve, with corrosion-resistant coating, right hand closing with non-rising spindle and hand wheel top.	No	1		
3	20mm Brass gate valve (female threaded ends)	No	1		
4	25mm Brass gate valve (female threaded ends)	No	1		
5	40mm Brass gate valve (female threaded ends)	No	1		
6	50mm Brass gate valve (female threaded ends)	No	14		
	<b><u>Concrete (15 mPa) encasing around pipes</u></b>				
7	50mm Pipe horizontal	m3	1		
8	Unreinforced concrete in thrust blocks at bends, tees, etc., including necessary extra excavation, formwork, etc.	m3	1		
	<b><u>Valve boxes including excavations, concrete bottoms, brick sides, concrete cover slabs and cast iron covers and frames</u></b>				
9	Valve box size 750 x 750 mm not exceeding 1000mm deep internally to invert level formed of 150mm thick cast insitu base slab and walls steel floated (25 MPa at 28 days in 19 mm stone) with ref 617 steel mesh reinforcing to centre of walls and base including lapping 400mm into base slab, fitted with and including ductile iron 450 x 450mm lockable cover and frame, cast into insitu concrete and bedded in 1:3 cement mortar and sealed in tallow including all necessary fittings, excavations, formwork, holes through sides for pipes, etc	No	7		
	Carried to Collection			R	
	Section No. 4 - External Works				
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**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Water meter box size 1860 x 1040 mm not exceeding 1000mm deep internally to invert level formed of hard burnt one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides with 150/120 mm thick mass concrete (30 MPa at 28 days in 19 mm stone) top slab with Y10 reinforcing bars at 100mm centres both ways place 30mm from bottom of slab, rebated for and fitted with and including cast iron Type 9E light duty cover and frame size 600 x 900mm accordance with SANS 558, bedded in 1:3 cement mortar and sealed in tallow including all necessary fittings, excavations, formwork, holes through sides for pipes, etc	No	1	
	<b><u>Sundries</u></b>			
2	Excavate and search for existing water supply points and expose pipe and prepare for new connection.	No	1	
3	Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in soft rock	m3	0.4	
4	Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in hard rock	m3	0.3	
	<b><u>COLD WATER SUPPLIES</u></b>			
	<b><u>Class 3 copper pipes</u></b>			
5	28mm Pipe in ground.	m	24	
6	32mm Pipe in ground.	m	6	
	<b><u>Extra over class 3 copper pipes for compression fittings</u></b>			
7	28mm Adaptor coupling	No	3	
8	28mm Pillar tap adaptor coupling	No	2	
9	28mm Bent adaptor coupling	No	3	
	Carried to Collection			R
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ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	28mm Bent adaptor coupling with wall plate	No	2	
2	28mm Elbow	No	10	
3	28mm Tee	No	12	
4	28mm Reducing coupling	No	6	
5	28 x 28 x 22mm Reducing tee	No	6	
	<b><u>Class 2 copper pipes</u></b>			
6	25mm stand pipe.	m	2	
	<b><u>Extra over 25mm copper pipes for</u></b>			
7	Wallplate elbow.	No	2	
	<b><u>Valves, etc. including joints to galvanised steel pipes.</u></b>			
8	22 mm Brass bibtap.	No	2	
	<b><u>TESTING, ETC.</u></b>			
9	Provide all necessary apparatus, water, etc. for and test the water reticulation system to the satisfaction of the Architect/Engineer and Local Authorities.	Item		
	<b><u>COLLECTOR TANKS AND SLABS</u></b>			
	SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----			
10	Allow the sum of R65,000.00 (Sixty Five Thousand Rand) for the Supply and Installation of a Water Collector Tank and Concrete Base to be executed complete by a specialist subcontractor.	Item		65,000.00
	Carried to Collection		R	
	Section No. 4 - External Works Bill No. 3 Water supplies (Provisional) CLARENCE BOBIE INCORPORATED			

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Item	Quantity	Rate	Amount
1 Allow for profit.	Item		
2 Allow for attendance.	Item		
Carried to Collection			R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>			
<b><u>BILL NO. 4</u></b>			
<b><u>ROADS, PARKING AND WALKWAYS(PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
APPLICABLE STANDARDIZED SPECIFICATIONS1.			
SANS 1200 -Standardised Specifications for Civil Engineering			
Construction*	SANS 1200 A	1986	Section A:
General	SANS 1200 C	1980	Section C: Site
Clearance	SANS 1200 D	1988	Section D:
Earthworks	SANS 1200 DB	1989	Section DB:
Earthworks (pipe trenches)	SANS 1200 DK	1996	Section DK:
Gabions and pitching	SANS 1200 DM	1981	Section DM: Earthworks (roads, subgrade)
	SANS 1200 G	1982	Section G: Concrete (structural)
	SANS 1200 L	1983	Section L: Medium-pressure pipe
lines	SANS 1200 LB	1983	Section LB: Bedding
(pipes)	SANS 1200 LC	1981	Section LC: Cable
ducts	SANS 1200 LD	1982	Section LD: Sewers
	SANS 1200 LE	1982	Section LE:
Carried to Collection			R
Section No. 4 - External Works			
Bill No. 4			
Roads, Walkways and steps (Provisional)			
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**ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Stormwater drainage</p> <p>SANS 1200 LF 1983 Section LF: Erf connections</p> <p>(water) SANS 1200 M 1996 Section M: Roads</p> <p>(general) SANS 1200 ME 1981 Section ME:</p> <p>Subbase SANS 1200 MJ 1984 Section MJ:</p> <p>Segmented paving</p> <p>SANS 1200 MK 1983 Section MK: Kerbing</p> <p>and channelling2. SANS</p> <p>Standard Specifications*3. OW 371 -</p> <p>Specification of Materials and Methods to be used. Fourth Revision, October 1993.***</p> <p>Not issued with this document, but available at the Contractor's expense from the S A Bureau of Standards, Private Bag x 191, PRETORIA, 0001.** Not issued with this document, but available on the web-site of the Director General, Department of Public Works,</p> <p>&lt;<a href="http://www.publicworks.gov.za/">http://www.publicworks.gov.za/</a>&gt;PROJECT SPECIFICATION CLAUSESFEATURES REQUIRING SPECIAL ATTENTIONSSANS SPECIFICATIONS AND CODES OF PRACTICEIn this document all reference to South African National Standards specifications and codes of practice, or any other standard specifications or codes of practice, including National Building Regulations, shall will deemed to be references to the latest issues of such specifications and codes.TESTING AND QUALITY CONTROLThe Contractor shall engage the services of an approved independent laboratory or other institution as applicable for quality testing, in order to ensure that his work complies with the specifications.No separate payment will be made for such testing, the cost will be deemed to be included in the Contractor's rates for the items of work that require testing in accordance with the Specifications.The onus to produce work that conforms to the requirements of the Specifications and Drawings regarding quality and accuracy of detail, rests upon the Contractor and he will, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times.The cost of supervision</p>			
Carried to Collection		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 4</p> <p>Roads,Walkways and steps (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>and process control, including testing carried out by the Contractor, will be deemed to be included in the rates bid for the related items of work. The Contractor's attention is drawn to the provisions of the various Specifications regarding the minimum frequency of testing required. The Contractor shall increase this frequency at his own discretion, to ensure adequate control where necessary. On completion and submission of every part of the work to the Engineer for examination, the Contractor shall furnish the Engineer with the results of the relevant tests to indicate compliance with the Specifications.</p> <p><b>USE OF EXPLOSIVES</b> The use of explosives for breaking up rock and hard material is not allowed due to the close proximity of existing buildings.</p> <p><b>WORK IN RESTRICTED AREAS</b> Notwithstanding any reference in any specification to work in restricted areas, no additional payment will be made for work in restricted areas. The Contractor will be deemed to have included any cost relating to work in restricted areas in the tendered rates.</p> <p><b>WORKMANSHIP AND QUALITY CONTROL</b> The onus to produce work that conforms to the requirements of the Specifications and Drawings regarding quality and accuracy of detail, rests upon the Contractor and he will, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times. The cost of supervision and process control, including testing carried out by the Contractor, will be deemed to be included in the rates tendered for the related items of work. The Contractor's attention is drawn to the provisions of the various Specifications regarding the minimum frequency of testing required. The Contractor shall, at his own discretion, increase this frequency to ensure adequate control where necessary. On completion and submission of every part of the work to the Engineer for examination, the Contractor shall furnish the Engineer with the results of the relevant tests to indicate compliance with the Specifications.</p> <p><b>GENERAL MATERIALS QUALITY</b> All manufactured materials supplied shall be new materials</p>			
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<p>unless the contrary is specified. All materials specified in accordance with SABS Specifications shall bear the SABS mark, whether so specified or not."ORDERING OF MATERIALS</p> <p>The quantities set out in the Bill of Quantities have been carefully determined from calculations based on data available at the time and should therefore be considered to be approximate quantities only. Before ordering materials of any kind, the Contractor shall check with the Engineer whether or not the scope of the work for which the materials are required is likely to change substantially. No liability or responsibility whatsoever shall be attached to the Employer for materials ordered by the Contractor except when ordered in accordance with written confirmation issued by the Engineer."</p> <p>CONSTRUCTION PROTECTION OF OVERHEAD AND UNDERGROUND SERVICES</p> <p>LOCATION AND PROTECTION OF EXISTING SERVICES</p> <p>Location of existing services</p> <p>Before underground or excavation work is carried out, the Contractor shall ascertain the presence and position of all services likely to be damaged or interfered with by his activities. The Contractor shall determine the exact position of such services by means of suitable detecting equipment and afterwards by careful hand excavation where necessary in order to expose the services at the positions of possible interference by his activities. This procedure shall also be followed in respect of services not shown on the plans but believed to be present.</p> <p>All such services, the positions of which have been located at the critical points, shall be designated as 'known' services and their positions shall be indicated on a separate set of Drawings, a copy of which shall be furnished to the Engineer.</p> <p>While he is occupying the Site, the Contractor shall be liable for all damage caused by him to known services as well as for consequential damage, whether caused directly by his operations or by the lack of proper protection.</p> <p>Protection during repair modification and maintenance work</p> <p>The Contractor will exercise all the necessary care to prevent damage to known services. Major excavating equipment and other plants will not be operated dangerously close to these services. Where necessary, excavation in close proximity to these</p>			
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<p>services shall be carefully carried out with suitable hand tools, excluding picks wherever their use could damage the services. No additional payment will apply to such more difficult work.Services left exposed shall be suitably protected from damage.Alterations and repairs to existing servicesUnless the contrary is clearly specified or ordered, the Contractor shall not carry out alterations to existing services. When this is necessary, the Contractor shall inform the Engineer, who will either make arrangements for such work to be executed by the owner of the service, or instruct the Contractor to make such arrangements himself.When existing services are damaged by the Contractor, he shall immediately inform the Engineer, or when this is not possible, the relevant authority, and obtain instructions as to who should carry out repairs. In urgent cases, the Contractor shall take the necessary steps to minimise damage to and interruption of the service. No repairs of telecommunication cables or electric power lines and cables shall be attempted.The Employer will accept no liability for damages due to a delay in having such alterations or repairs affected. The Contractor shall provide all reasonable opportunity, access and assistance to persons carrying out alterations or repairs of existing services.TOLERANCESGENERALNo guarantee is given that the full specified tolerances will be available independently of each other, and the Contractor is cautioned that the liberal or full use of any one or more of the tolerances may deprive him of the full or any use of tolerances relating to other aspects of the work.Except where the contrary is specified or when clearly not applicable, all quantities for measurement and payment shall be determined from the 'authorised' dimensions. These are specified dimensions or those shown on the Drawings or, if changed, as finally prescribed by the Engineer, without any allowance for the specified tolerances. Except if otherwise specified, all measurements for determining quantities for payment will be based on the 'authorised' dimensions.If the work is therefore constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, quantities will be based on the 'authorised' dimensions regardless of the actual dimensions to which the work has been constructed.When the work is not</p>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, the Engineer may nevertheless, at his sole discretion, accept the work for payment. In such cases no payment shall be made for quantities of work or material in excess of those calculated for the 'authorised' dimensions, and where the actual dimensions are less than the 'authorised' dimensions minus the tolerance allowed, quantities for payment shall be based on the actual dimensions as constructed."TESTING"The Contractor shall obtain the services of an independent testing laboratory at his own expense (refer PS1.2 of the Project Specifications) to carry out the checks prescribed in the various Standardised Specifications."				
<b><u>ROADWAYS, PARKING AND WALKWAYS</u></b>				
<b><u>CONCRETE WALKWAYS</u></b>				
<b><u>EARTHWORKS</u></b>				
<b><u>Excavations</u></b>				
<b><u>Excavate in pickable material not exceeding 2 m deep below natural or reduced ground level (Labour-intensive)</u></b>				
1	Trenches.	m3	92	
2	Reduce levels under surface beds.	m3	66	
3	150mm Deep over site between buildings, retaining walls, etc to remove top soil and depositing excavated material in prescribed stock piles on site	m3	66	
<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>				
4	Soft rock.	m3	9	
5	Hard rock.	m3	5	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Garden soil filling obtained from the excavations and/or prescribed stock piles on site</u></b>			
1	Spread over site	m3	66	
	<b><u>Extra over all excavations for carting away:</u></b>			
2	Extra over all excavations for carting surplus excavated material and spreading, levelling and lightly compacting on site where directed average 150 m from the excavations (Measured Nett - No Allowance made for bulking).	m3	158	
	<b><u>Compaction of surfaces</u></b>			
3	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	531	
	<b><u>Risk of collapse of excavations:</u></b>			
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	294	
	<b><u>Keeping excavations free of water:</u></b>			
5	Keeping excavations free from mud and all water including subterranean sources.	Item		
	<b><u>FILLING, ETC</u></b>			
	<b><u>G7 Earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>			
6	Backfilling to trenches, holes, etc.	m3	39	
7	Under concrete surface beds in accordance with SABS 1200 DM compacted in max 150mm thick layers to 93% Mod AASHTO density.	m3	178	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>G5 earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>			
1	Under concrete surface beds in accordance with SABS 1200 DM compacted in 150mm thick layers to 95% Mod AASHTO density.	m3	66	
	<b><u>Prescribed density tests on filling</u></b>			
2	"Modified AASHTO Density" test on fill material.	No	25	
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES AND FORMWORK</u></b>			
	<b><u>Concrete mix for general concrete works, composed of 1 part cement ; 3 parts sand and 3 parts 19mm stone producing a strength of 20-29MPa using 60L water per 2 bags cement. Cement is to be manufactured in accordance with SANS 50197-1.</u></b>			
	<b><u>25 MPa/19mm concrete</u></b>			
3	Surface beds cast in panels to falls and ramps.	m3	57	
4	Footings to walls (Provisional).	m3	28	
5	Concrete infill to cavity walls cast in cavities of 250mm brick walls	m3	4	
6	Stairs including landings, beams and inverted beams	m3	4	
	<b><u>Thicken out surface beds, etc.</u></b>			
7	Thicken out edge of 100mm thick apron to a total thickness of 142mm for a width of 300mm, including all necessary excavation, surface preparation, additional concrete and formwork (formwork to exposed edges elsewhere measured).	m	48	
	<b><u>CONCRETE SUNDRIES</u></b>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>			
1	Surface beds to falls.	m2	438	
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP Work Group No 111)</u></b>			
	<b><u>Smooth Formwork to Sides:</u></b>			
2	Stepped outer edges of stairs	m2	1	
3	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	36	
	<b><u>MOVEMENT JOINTS, ETC.</u></b>			
	<b><u>ISOLATION JOINTS</u></b>			
	<b><u>Isolation Joints</u></b>			
4	Low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 100 x 12mm thick with tear off strip fitted to isolation joints in concrete surface with adhesive as per adhesive manufacturer's recommendation.	m	336	
	<b><u>Approved polyurethane elastometric adhesive/sealant colour Concrete Grey applied in accordance with the manufacturer's instructions.</u></b>			
5	12 x 10mm Deep in isolation joints in floors or walls including raking out expansion joint filler as necessary.	m	336	
	<b><u>CONSTRUCTION JOINTS</u></b>			
	<b><u>Vertical construction joints through concrete including thick cement slurry to one face:</u></b>			
6	Surface beds not exceeding 300mm thick.	m	18	
	<b><u>EXPANSION JOINTS</u></b>			
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Joint forming material in movement joints:</u></b>				
1	12mm Bitumen impregnated fibre board built in vertically or horizontally between brick skins (Provisional).	m2	9		
	<b><u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>				
2	12mm joints in floors or walls including raking out expansion joint filler as necessary (Provisional)	m	41		
	<b><u>REINFORCEMENT(Provisional)</u></b>				
	<b><u>Fabric reinforcement in surface beds:</u></b>				
3	Type 395 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 3,95 kg/m <sup>2</sup> with nominal 8mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (measured net)	m2	438		
	<b><u>Fabric reinforcement in walls:</u></b>				
4	Type 617 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 6,17 kg/m <sup>2</sup> with nominal 10mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	203		
	<b><u>Mild steel reinforcement to structural concrete work:</u></b>				
5	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	555		
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
6	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	2,125		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>CONCRETE TESTING</u></b>				
1	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional).	No	25		
	<b><u>BRICKWORK</u></b>				
	<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>				
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:</u></b>				
2	250mm hollow walls of two half brick skins with and including 200mm long x 100mm wide wire butterfly ties centrally placed and staggered at 5 ties per metre squared of face.	m2	203		
	<b><u>SANDSTONE WALLS</u></b>				
3	Extra over brick walls for sandstone facings externally size 220 x 73 x 105mm Wide in cement mortar finished fair and pointed both sides as described.	m2	125		
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
	<b><u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u></b>				
4	Under surface beds	m2	460		
	<b><u>PAINTWORK</u></b>				
	<b><u>BALUSTRADES</u></b>				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Mild steel balustrades</u></b>			
1	Balustrade, 1000mm high, formed of 50 x 5mm stainless steel flat bar posts welded and bolted with 100 x 150 x 6mm thick stainless steel base plate bolted to concrete, 2 x 50 x 25mm thick rectangular hollow section horizontal rails welded with 20 x 20mm stainless steel square hollow section vertical rails at 120mm centres welded and 50mm diameter x 2,5mm thick handrail welded (Refer to drawing 1052/50-07)	m	128	
	<b><u>PRECAST CONCRETE PARKING AND WALKWAYS</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>Excavation not exceeding 2m deep</u></b>			
2	150mm Deep over site between buildings, retaining walls, etc to remove top soil and depositing excavated material in prescribed stock piles on site	m3	21	
3	Over site between buildings, retaining walls, etc to reduce levels and depositing excavated material in prescribed stock piles on site	m3	42	
	<b><u>Extra over bulk excavation in earth for excavation in</u></b>			
4	Soft rock	m3	5	
5	Hard rock	m3	5	
	<b><u>Garden soil filling obtained from the excavations and/or prescribed stock piles on site</u></b>			
6	Over site	m3	21	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Extra over all excavations for carting away</u></b>				
1	Surplus material from stock piles on site to a dumping site to be located by the contractor	m3	42		
	<b><u>Keeping excavations free of water</u></b>				
2	Keeping excavations free of all water other than subterranean water		Item		
	<b><u>Road bed preparation</u></b>				
	<b><u>Compaction of surfaces</u></b>				
3	Compaction of reduced ground surface under pavings 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	141		
	<b><u>LAYERWORK</u></b>				
	<b><u>Selected layer</u></b>				
4	G7 Selected layer in accordance with SABS 1200 M TABLE 3B imported by the contractor in layers not exceeding 150 mm, compacted to 93% Modified AASHTO maximum density.	m3	42		
	<b><u>Subbase</u></b>				
5	C3 Stabilised Subbase in accordance with SABS 1200 M TABLE 7 consisting of G5 quality material imported by the contractor in layers not exceeding 150 mm, stabilise with 2.5% by mass of stabilising agent (32.7N Cement) and compacted to 96% Modified AASHTO maximum density.				
	General guide: Based on G5 material as 2050kg/m3 Cement required = 51.25kg/m3	m3	21		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Prescribed density tests on filling</u></b>				
1	"Modified AASHTO Density" test on fill material	No	15		
2	"Field Density" test including "Optimum Moisture Content" (four readings per test) on layer work	No	2		
	<b><u>Precast concrete block road surfacing</u></b>				
	<b><u>Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications</u></b>				
3	60mm Thick Class 30/2.0 (SANS 1058:2012) S-D concrete paving blocks laid to strecher bond pattern on 20mm (thickness after final compaction) clean river bedding sand (SANS 1200MJ 3.3).	m2	141		
	<b><u>Paving Sundries</u></b>				
4	Clean sand is to be swept into joints between paving blocks.	m2	141		
	<b><u>BUILDERS WORK TO GENERATOR PLINTH</u></b>				
	<b><u>CONCRETE SLAB</u></b>				
	<b><u>EARTHWORKS</u></b>				
5	Reduce levels under surface beds.	m3	2		
	<b><u>Road bed preparation</u></b>				
6	Scarify in-situ road bed surface to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content.	m2	10		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>G6 Earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>				
1	Backfilling to trenches, holes, etc.	m3	2		
	<b><u>Sundries</u></b>				
2	Cart away surplus excavated material.	m3	2		
	<b><u>Prescribed density tests on filling</u></b>				
3	"Modified AASHTO Density" test on fill material.	No	3		
	<b><u>Concrete mix for general concrete works, composed of 1 part cement ; 3 parts sand and 3 parts 19mm stone producing a strength of 20-29MPa using 60L water per 2 bags cement. Cement is to be manufactured in accordance with SANS 50197-1.</u></b>				
	<b><u>25 MPa/19mm concrete</u></b>				
4	Slabs, including beams and inverted beams	m3	4		
	<b><u>Test blocks:</u></b>				
5	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No	6		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>				
6	Surface beds to falls.	m2	16		
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP Work Group No 111)</u></b>				
	<b><u>Smooth Formwork to Sides:</u></b>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	13		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Smooth Formwork to Sides and Soffits:</u></b>				
1	Ground beams	m2	6		
	<b><u>Extra on smooth formwork to soffits for boxing or blocking in or boxing out to form:</u></b>				
2	110mm Diameter opening through 150mm thick slab (Provisional).	No	2		
	<b><u>Boxing in smooth formwork to form:</u></b>				
3	25 x 25mm Chamfer along top edge.	m	35		
	<b><u>Galvanised pipes</u></b>				
4	25mm Drain pipe	m	1		
5	22 mm Brass bibtap.	No	1		
	<b><u>REINFORCEMENT(Provisional)</u></b>				
	<b><u>Fabric reinforcement</u></b>				
6	Type 395 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 3,95 kg/m <sup>2</sup> with nominal 8mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (measured net)	m2	10		
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
7	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	188		
	<b><u>GENERAL BUILDERS WORK TO ELECTRICAL INSTALLATIONS</u></b>				
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Supply, deliver and install cable sleeves and slow bends in concrete surface beds and or trenches as specified.</u></b>				
1	110 mm diameter (UPVC) sleeves including trenching, backfilling, etc. 800mm deep x 500mm wide	m	90		
2	110 mm diameter (UPVC) Slow Bend	No	8		
3	50 mm diameter (UPVC) including trenching, backfilling, etc. 800mm deep x 500mm wide	m	60		
4	50 mm diameter (UPVC) Slow Bend	No	4		
5	32 mm diameter (UPVC) including trenching, backfilling, etc. 800mm deep x 500mm wide	m	40		
6	32 mm diameter (UPVC) Slow Bend	No	10		
7	100 mm diameter (Galvanised) sleeves including trenching, backfilling, etc. 800mm deep x 500mm wide	m	40		
8	Allow for core drilling through existing 540mm thick sandstone/brick walls for new 50mm sleeves	No	10		
9	Allow for core drilling through existing 540mm thick sandstone/brick walls for new 110mm sleeves	No	5		
10	Allow for breaking up concrete floors for new 110mm sleeves	m	5		
Carried to Collection					R
Section No. 4 - External Works					
Bill No. 4					
Roads, Walkways and steps (Provisional)					
CLARENCE BOBIE INCORPORATED					

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FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

Item		Quantity	Rate	Amount
<u>Inspection manholes including excavations, concrete bottoms, brick sides, concrete cover slabs and cast iron covers and frames</u>				
1	Manhole size 750 x 750 mm not exceeding 1000mm deep internally to invert level formed of 150mm thick cast insitu base slab and walls steel floated (25 MPa at 28 days in 19 mm stone) with ref 617 steel mesh reinforcing to centre of walls and base including lapping 400mm into base slab, fitted with and including ductile iron 450 x 450mm lockable cover and frame, cast into insitu concrete and bedded in 1:3 cement mortar and sealed in tallow including all necessary fittings, excavations, formwork, holes through sides for pipes, etc	No	4	
<u>STRUCTURAL STEEL CANOPIES</u>				
SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----				
2	Allow the sum of R450,000.00 (Four Hundred and Fifty Thousand Rand) for the Supply and Installation of the structural steel canopies to be executed complete by a specialist subcontractor.		Item	450,000.00
3	Allow for profit.		Item	
4	Allow for attendance.		Item	
Carried to Collection			R	
Section No. 4 - External Works Bill No. 4 Roads,Walkways and steps (Provisional) CLARENCE BOBIE INCORPORATED				

Section 4

Bill No. 4

Roads, Walkways and steps (Provisional)

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ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>				
<b><u>BILL NO. 5</u></b>				
<b><u>LANDSCAPING AND FENCING (PROVISIONAL)</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles see "Specification of materials and methods to be used - PW 371"				
-----				
<b><u>REMOVAL OF EXISTING WORK</u></b>				
<b><u>Taking down and removing</u></b>				
1	Palisade fence 2.4m high complete fixed between brick columns	m	176	
2	Precast concrete boundary wall average 2,0m high including concrete posts	m	43	
3	Remove existing single palisade gate	No	1	
4	Remove existing double palisade gate	No	2	
<b><u>PALISADE FENCING (PROVISIONAL)</u></b>				
<b><u>EXCAVATION, ETC</u></b>				
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
5	Surface trenches and ground beams	m3	10	
6	Bases	m3	14	
Carried to Collection				R
Section No. 4 - External Works				
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Item		Quantity	Rate	Amount
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
1	Soft rock	m3	2	
2	Hard rock	m3	1	
<b><u>Extra over all excavations for carting away</u></b>				
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	23	
<b><u>Risk of collapse of excavations</u></b>				
4	Sides of trench and hole excavations not exceeding 1,5m deep	m2	68	
<b><u>Keeping excavations free from water</u></b>				
5	Keeping excavations free from mud and all water other than from subterranean sources		Item	
<b><u>FILLING, ETC</u></b>				
<b><u>G7 Earth filling supplied by the contractor compacted to 93% Mod AASHTO density</u></b>				
6	Backfilling to trenches, holes, etc	m3	10	
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>25 MPa/19mm concrete</u></b>				
7	Strip footings(Provisional)	m3	3	
8	Bases.	m3	7	
Carried to Collection				R
Section No. 4 - External Works Bill No. 5 Landscaping and Fencing (Provisional) CLARENCE BOBIE INCORPORATED				



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Item		Quantity	Rate	Amount
<b><u>CONCRETE TESTING</u></b>				
1	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No	6	
<b><u>REINFORCEMENT(Provisional)</u></b>				
<b><u>Mild steel reinforcement to structural concrete work:</u></b>				
2	10mm Diameter bars.	kg	185	
<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
3	12mm Diameter bars.	kg	125	
4	10mm Diameter bars.	kg	68	
<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>				
<b><u>14MPa nominal compressive strength Imperial NFX loadbearing perforated plaster brick, size 222 x 73 x 106mm, manufactured in accordance with SANS 227:2007, laid in foundations walls to single storey building and bedded and jointed in Class I mortar. Mortar in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in mortar Class 1 to be mixed to the ratio of 1 part cement : 4 parts sand, (sand to conform to SANS 1083:2006) to highly stressed masonry, incorporating high structural units.</u></b>				
5	Piers	m3	1	
6	One brick walls	m2	14	
<b><u>BRICKWORK IN SUPERSTRUCTURE</u></b>				
Carried to Collection				R
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Item	Quantity	Rate	Amount
<p><b><u>14MPa nominal compressive strength Imperial NFX loadbearing perforated plaster brick, size 222 x 73 x 106mm, manufactured in accordance with SANS 227:2007, laid in superstructure walls to single storey building and bedded and jointed in Class I mortar. Mortar in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in mortar Class 1 to be mixed to the ratio of 1 part cement : 4 parts sand, (sand to conform to SANS 1083:2006) to highly stressed masonry, incorporating high structural units.</u></b></p>			
1	Piers	m3	3
2	One brick walls	m2	8
<p><b><u>Facings Externally</u></b></p> <p><b><u>Facebricks prime cost R 7 250.00 per thousand excluding VAT delivered to the site pointed with flush horizontal and vertical joints</u></b></p>			
3	Extra over ordinary brickwork for facing in stretcher bond and pointing as described in foundations.	m2	5
4	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m2	45
<p><b><u>Brick-on-edge header course copings, sills, etc with recessed joints on all exposed faces:</u></b></p>			
5	220mm Wide brick on edge course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	16
<p><b><u>Brick reinforcement</u></b></p>			
6	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls every fourth course	m	269
<p><b><u>BRICKWORK SUNDRIES</u></b></p>			
Carried to Collection			R
<p>Section No. 4 - External Works  Bill No. 5  Landscaping and Fencing (Provisional)  CLARENCE BOBIE INCORPORATED</p>			

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Item		Quantity	Rate	Amount
<b><u>Joint forming material in movement joints</u></b>				
1	12mm Bitumen impregnated fibre board built in vertically between brick skins	m2	2	
<b><u>JOINT SEALANTS, ETC</u></b>				
<b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>				
2	10 x 10mm In expansion joints in floors or walls including raking out expansion joint filler as necessary (Provisional)	m	13	
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer of 375 micron embossed damp proof course</u></b>				
3	In walls	m2	5	
<b><u>PRECAST CONCRETE COPINGS, SILLS, ETC</u></b>				
<b><u>Approved standard uncoloured blocks finished smooth, including bedding on brickwork, jointing and pointing on all exposed surfaces</u></b>				
4	540 x 540 x 200 mm Thick overall copings four times weathered on top to 100 mm thick along both edges with drip groove in bottom along all edges refer to drawing No. 2.01	No	6	
<b><u>CLEARVU FENCING OR SIMILAR APPROVED</u></b>				
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Galvanised and coated mild steel security fencing</u></b>			
1	<p>ClearVu or similar approved high density anti-climbing and anti-cut pressed mesh panel fencing 2,4m high <b>fitted between existing brick columns</b>, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with coating with aperture size 76,2mm x 12,7mm and panels reinforced with 4 x 50mm deep V formation horizontal recessed bands and 2 x 75mm 70 degree flanges along sides, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post 2,4m including Locking Recess Mechanism at 3,382m centres with UV stabilised polymer sealed end caps and 30 x 3mm x 250mm long angle section base anchors.</p> <p>Top of fence fitted with approved 100mm high coated 'shark tooth' type spike.</p>	m	164	
2	<p>ClearVu or similar approved high density anti-climbing and anti-cut pressed mesh panel fencing 2,4m high, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with coating with aperture size 76,2mm x 12,7mm and panels reinforced with 4 x 50mm deep V formation horizontal recessed bands and 2 x 75mm 70 degree flanges along sides, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post 3,0m including Locking Recess Mechanism at 3,382m centres with UV stabilised polymer sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 600 x 400 x 650mm deep with bitumen coated 600mm under-dig.</p> <p>Top of fence fitted with approved 100mm high coated 'shark tooth' type spike.</p>	m	72	
	Carried to Collection			
	Section No. 4 - External Works			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Gates</u></b>			
1	<p>Single pedestrian gate size 1030 x 2300mm high formed of coated colour Black 76 x 76 x 2mm wall thickness square section framing covered with ClearVu or similar approved Marine Fusion Bond coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing size 878 x 2 148 mm high and horizontal flatbar with 2 x 75mm 70° flanges along sides and 2 x 30° flanges along top and toe, all bolted with vandal resistant bolts and clamping plates to frame; the gate fitted with three eyebolt hinges, stops and one 16mm diameter solid galvanised mild steel locking padbolt and with 76 x 76 x 2mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, including drilling gate post for keep hole, etc.</p> <p>Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.</p>	No	2	
2	<p>Double vehicle gate overall size 3069 x 2350mm high in two equal leafs, each leaf formed of coated colour Black 40 x 40 x 3mm wall thickness square section framing covered with ClearVu or similar approved coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing size 1537 x 2270mm high and horizontal flatbar with 2 x 75mm 70° flanges along sides and 2 x 30° flanges along top and toe, all bolted with vandal resistant bolts and clamping plates to frame; each gate leaf to be fitted with two eyebolt hinges, stops and one 16mm diameter solid galvanised mild steel locking padbolt with 40 x 40 x 3mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, and 16mm diameter x 450mm long galvanised towerbolt fixed to bottom of gate including all drilling of gate post for keep hole, etc., fixed to existing brick columns</p> <p>Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.</p>	No	1	
	Carried to Collection			R
	Section No. 4 - External Works			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Sliding gate overall size 3354 x 2300mm high formed of coated colour Black 76 x 76 x 2mm wall thickness square section framing covered with ClearVu or similar approved coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing ; gate fitted with and including a pair of suitable gate wheels on fixing brackets welded to bottom rail and one 16mm diameter solid galvanised mild steel locking padbolt with 76 x 76 x 2mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, and 16mm diameter x 450mm long galvanised towerbolt fixed to bottom of gate including all drilling of gate post for keep hole, etc.			
	Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.	No	2	
2	Sliding gate overall size 4863 x 2300mm high formed of coated colour Black 76 x 76 x 2mm wall thickness square section framing covered with ClearVu or similar approved coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing ; gate fitted with and including a pair of suitable gate wheels on fixing brackets welded to bottom rail and one 16mm diameter solid galvanised mild steel locking padbolt with 76 x 76 x 2mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, and 16mm diameter x 450mm long galvanised towerbolt fixed to bottom of gate including all drilling of gate post for keep hole, etc.			
	Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.	No	1	
3	Approved heavy duty padlock	No	6	
4	500 x 500 x 750mm Deep 20MPa mass concrete keep block with two 19mm diameter x 100mm long galvanised locating sleeve cast into top, including all necessary excavation, formwork, etc	No	4	
<b><u>LANDSCAPING</u></b>				
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Grassing of sods</u></b>			
1	"Kikuyu" grass in sods approximately 300 x 300 x 75mm thick, closely packed and top dressed as necessary to even surfaces.	m2	300	
	<b><u>Maintenance</u></b>			
2	Maintenance of grassed areas for a period of 6 months including regularly weeding and irrigating as necessary.	Item		
	<b><u>REMOVAL OF TREES, ETC.</u></b>			
	<b><u>Cutting down and removing, grubbing up roots and filling in holes</u></b>			
3	Tree exceeding 200mm and not exceeding 500mm girth	No	2	
4	Tree exceeding 500mm and not exceeding 1000mm girth	No	3	
5	Tree exceeding 1000mm and not exceeding 1500mm girth	No	4	
6	Tree exceeding 1500mm and not exceeding 2000mm girth	No	4	
Carried to Collection				R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>  <b><u>BILL NO. 6</u></b>  <b><u>DECANTING ~ TEMPORARY ACCOMMODATION (PROVISIONAL)</u></b>  <b><u>PREAMBLES</u></b>  For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>  <b><u>Proprietary products in descriptions</u></b>  Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent  <b><u>TEMPORARY ACCOMMODATION</u></b>  SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----  <b><u>The following in approved prefabricated stand alone mobile unit type offices and containers placed on jacks on concrete pads</u></b>			
1	Allow the sum of R450,000.00 (Four Hundred and Fifty Thousand Rand) for the Supply and Installation of temporary units to be executed complete by a specialist subcontractor.	Item	450,000.00
2	Allow for profit.	Item	
Carried to Collection			R
Section No. 4 - External Works Bill No. 6 Decanting (Provisional) CLARENCE BOBIE INCORPORATED			

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Item	Quantity	Rate	Amount
1 Allow for attendance.	Item		
Carried to Collection			R
Section No. 4 - External Works Bill No. 6 Decanting (Provisional) CLARENCE BOBIE INCORPORATED			

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Item		Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>				
<b><u>BILL NO. 7</u></b>				
<b><u>FLAGPOLES, ETC</u></b>				
<b><u>FLAGPOLES</u></b>				
<b><u>EARTHWORKS (PROVISIONAL)</u></b>				
<b><u>Site Clearance</u></b>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	5	
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
2	Surface trenches and ground beams	m3	1	
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
3	Soft rock	m3	0.1	
<b><u>Extra over all excavations for carting away</u></b>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	
<b><u>Risk of collapse of excavations</u></b>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4	
<b><u>Keeping excavations free from water</u></b>				
6	Keeping excavations free from mud and all water other than from subterranean sources	Item		
Carried to Collection				R
Section No. 4 - External Works Bill No. 7 Flagpoles, etc CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Flagpole bed preparation</u></b>			
1	Scarify in-situ paved surface to a depth of 150 mm and compact to 93% Modified AASHTO density at optimum moisture content	m2	5	
	<b><u>Subbase</u></b>			
2	Hardcore filling imported by the contractor in layers not exceeding 150 mm, with a CBR less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content	m3	2	
	<b><u>Subgrade</u></b>			
3	Selected fill (Sand) in layers not exceeding 150 mm compacted to 93% Modified AASHTO density at optimum moisture content	m3	1	
	<b><u>25/19MPa Mesh Reinforced concrete</u></b>			
4	Bases	m3	1	
	<b><u>Unreinforced Concrete</u></b>			
5	Flagpole bases	m3	0.2	
6	Mesh reinforcing Ref 245	m2	2	
	<b><u>Screed to flagpole base</u></b>			
7	25mm Screed	m2	6	
	<b><u>Sundries</u></b>			
8	25mm Stone/ loose gravel	m3	1	
9	10mm saw cuts including sealing with an approved bitumen sealant	m	4	
Carried to Collection				R
Section No. 4 - External Works				
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Item		Quantity	Rate	Amount
1	220 x 110 x 50mm brick on edge edging including 25Mpa concrete haunching approximately 500 x 200mm thick	m	27	
	<b><u>FLAGPOLES</u></b>			
	<b><u>Galvanised approved flagpoles</u></b>			
2	6m Long flagpole including pully and ropes	No	2	
	<b><u>PAVING</u></b>			
	Approved clay brick paving			
3	220 x 110 x 50mm Brick-on-edge edging in paved surfaces	m2	9	
Carried to Collection				R
Section No. 4 - External Works				
Bill No. 7				
Flagpoles, etc				
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 5</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>EMPLOYMENT OF LOCAL RESOURCES - PROVIDE EMPLOYMENT OPPORTUNITIES TO TARGETED LABOUR (PROVISIONAL)</u></b>			
<b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L1</u></b>			
<b><u>LOCAL RESOURCES AND LABOUR</u></b>			
<u>It is an express condition of Contract that only local people (resident within the Elliot area) may be employed on the contract. Provided that adequate labour is not available from the local area, other labour may be employed/imported subject to satisfactory proof being provided that every effort was made to employ local residents. The contractor shall liaise with the CLO and local authorities, and negotiate with them about the employment of local labour in the building process. The contractor shall in general maximize the involvement of local communities.</u>			
<u>The above-mentioned condition does not apply to the contractors permanent managerial staff, and specialist related work, eg. blasting of rock, etc.</u>			
<u>Detailed records of actual labour employed on site shall be submitted to the Principal Agent on a monthly basis.</u>			
<b><u>L1.1 LABOUR RISK ASSESSMENT</u></b>			
1	Compilation of the risk assessment report required including all handling costs and profit.	Item	
Carried to Collection			R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 1 Local Labour (Provisional) CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>L1.2 EMPLOYMENT</u></b>			
1	Management and execution obligations for the employment, job forecast scheduling and monthly update submissions required, including all handling costs and profit.	months 24		
	<b><u>L1.3 RECRUITMENT</u></b>			
2	Management and execution obligations for the targeted recruitment process, monthly labour requisitions and achieving of minimum employment targets required, including all handling costs and profit.	months 24		
	<b><u>L1.4 WAGES</u></b>			
3	Management and execution obligations for the compilation of job & wage schedules and wage payment processes required, including all handling costs and profit.	months 24		
	<b><u>L1.5 EMPLOYMENT CONTRACTS</u></b>			
4	Management and execution obligations for employment contracts, including all handling costs and profit.	months 24		
	<b><u>L1.6 LABOUR MOBILISATION &amp; DEMOBILISATION</u></b>			
5	Management and provisions for mobilisation and demobilisation costs of employed personnel, including all handling costs and profit.	months 24		
	Carried to Collection		R	
	Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 1 Local Labour (Provisional) CLARENCE BOBIE INCORPORATED			

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**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 5</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>EMPLOYMENT OF A COMMUNITY LIAISON OFFICER (PROVISIONAL)</u></b>				
<b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L2</u></b>				
<b><u>COMMUNITY LIAISON OFFICER</u></b>				
<b><u>Immediately prior to site establishment, the Main Contractor must employ the services of a Community Liaison Officer (CLO) on a full-time basis for the full duration of the construction contract, through a recruitment process facilitated by the Implementing Agent.</u></b>				
<b><u>COMMUNITY LIAISON OFFICER:</u></b>				
1	Allowance for the remuneration of a Community Liaison Officer.  (R 8500.00 per month for 24 months + 13th Cheques)	Item		425,000.00
2	Allowance for the CLO Statutory Contributions.	Item		115,000.00
3	Management and provision of all necessary tools of trade for the Community Liaison Officer, by the contractor, including all handling costs and profit.	24	months	
Carried to Summary of Section 5			R	
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 2 Community Liaison Officer (Provisional) CLARENCE BOBIE INCORPORATED				

CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
 PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
 FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
 ADDITIONAL ACCOMMODATION

<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>TRAINING AND DEVELOPMENT INTERVENTIONS (PROVISIONAL)</u></b></p> <p><b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L3.1</u></b></p> <p><b><u>DEVELOPING SKILLS THROUGH INFRASTRUCTURE CONTRACTS</u></b></p> <p><u>Implementation of the Standard for Developing Skills through Infrastructure Contracts (CSDG), for contractors, to achieve full compliance to the Construction Industry Development Board Act, 2000 (Act no. 38 of 2000), published in Gazette Notice 48491 of 28 April 2023.</u></p> <p><u>This standard establishes a minimum contract skills development goal to be achieved in the performance of a contract in relation to the provision of different types of workplace opportunities, linked to work associated with a contract culminating in or leading to:</u></p> <p><u>Method 1 : structured workplace learning opportunities for learners towards the attainment of a part or a full occupational qualification.</u></p> <p><u>Method 2 : structured workplace learning opportunities for apprentices and/or other artisan learners towards the attainment of a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012), subject to at least 60% of the Artisan Learners being holders of public TVET college qualifications.</u></p> <p><u>Method 3 : work integrated learning opportunities for University of Technology or Comprehensive University students completing their National Diplomas.</u></p>			
Carried to Collection		R	
<p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3</p> <p>Training and Development Interventions (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p><b><u>Method 4 : structured workplace learning opportunities for candidates towards registration in a professional category by a statutory council.</u></b></p> <p><b><u>Employed learners may not account for more than 33 percent of the contract skill development goal.</u></b></p> <p><b><u>Not more than one method may be applied to any individual concurrently in the calculation of the contract skills development goal.</u></b></p> <p><b><u>The Standard for Skills Development is set at a maximum development support of 0.5% of the projects contract value as per the cidb B.U.I.L.D programme.</u></b></p> <p><b><u>PROVISIONS</u></b></p> <p>1 Provisions for Stipends</p> <p>2 Provision for Mentorship</p> <p>3 Provision for addition costs (PPE, Medical Assessments, Course Fee, Assessments and Monitoring)</p> <p>4 Management and provision of all necessary tools of trade for the learners, by the contractor, including all handling costs and profit.</p> <p style="text-align: right;">months</p> <p><b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L3.2</u></b></p> <p><b><u>CIDB STANDARD FOR INDIRECT TARGETING FOR ENTERPRISE DEVELOPMENT</u></b></p> <p><b><u>Implementation of the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts (CPGs), published in Gazette Notice No. 36190 of 25 February 2013, and is applicable to contracts in cidb Grades 7 to 9, in the General Building (GB) and Civil Engineering (CE).</u></b></p> <p><b><u>The standard establishes Contract Participation</u></b></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3 Training and Development Interventions (Provisional) CLARENCE BOBIE INCORPORATED</p>	Item Item Item 9		80,000.00 50,000.00 50,000.00
			R	

CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
 PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
 FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
 ADDITIONAL ACCOMMODATION

<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>Goals (CPGs) for development of targeted enterprises, to promote enterprise development by providing for a minimum of 5% of the total project value on selected contracts to be undertaken by joint-venture partners or to be sub-contracted to developing contractors. The standard requires the lead partner, or the main contractor dedicate a minimum of 5% of the total project value and to provide developmental support to a targeted sub-contractor/s and JV partners.</u></p> <p><u>General</u></p> <ul style="list-style-type: none"> <li><u>The main contractor shall within 30 days of the contract coming into effect or the issuing of an order, submit to the employer's representative a contract compliance baseline training plan, taking into account the skills mix and type of workers that are to be engaged;</u></li> <li><u>At intervals, not exceeding three (3) months, submit to the employer's representative interim contract compliance training reports; and</u></li> <li><u>Shall within 30 days of reaching completion, end of the service, the delivery date for all work required or practical completion in the case of professional service, design and construct contracts, and engineering and construction works contracts, respectively, submit to the employer's representative a final contract compliance training report.</u></li> <li><u>The information contained in the final contract compliance training report shall include the contract skills development goal achieved (in Rands or in hours) in the performance of the contract and a breakdown of the goal achieved.</u></li> <li><u>The contractor shall keep records of the hours worked and registration particulars in</u></li> </ul>			
Carried to Collection		R	
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3 Training and Development Interventions (Provisional) CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p><u>compliance with this standard. The contractor shall allow the employer's representative to inspect or audit such training records at any time.</u></p> <ul style="list-style-type: none"> <li><u>The employer's representative shall undertake suitable random audits on records to confirm compliance with requirements.</u></li> <li><u>The learners shall be directly employed by the contractor or SDA and the contractor may enter into a contract agreement with the cidb SDAs, training provider or skills development facilitator of their choice, participating in the implementation of this standard.</u></li> <li><u>The main contractor shall also submit to the Implementing Agent, monthly CSDG compliance training reports, as well as a final CSDG compliance training report within 15 days of reaching practical completion.</u></li> <li><u>The selection and placement of appropriate trainees/ learners/ candidates shall be in line with the Target Areas identified above. The initial search shall be made from the Project Job Seekers' Database managed by the Implementing Agent.</u></li> </ul> <p><b><u>PROVISIONS</u></b></p>			
1	<p>Management and execution of the obligations for the targeted contract spend process, selection of targeted enterprises, contract agreement compliances, monthly requisitions and achieving of the standard required, including all handling costs and profit.</p>	months	24	
	Carried to Collection		R	
	<p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3  Training and Development Interventions (Provisional)  CLARENCE BOBIE INCORPORATED</p>			



Section 5  
Bill No. 3  
Training and Development Interventions (Provisional)

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>EMPLOYMENT AND TRAINING OF LABOUR ON THE EPWP-NYS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to and study the Additional Specification SL:Employment and Training of Labour on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service, as bound elsewhere in the Bills of Quantities, and then price this Bill accordingly</p>			
<p>Carried to Collection</p>		R	
<p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4</p> <p>Employment and Training of Labour on the EPWP-NYS ( CLARENCE BOBIE INCORPORATED</p>			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Monthly reporting and administration of the EPWP system including submission of EPWP Reporting System (ERS) beneficiary registration tool to the principal agent on a monthly cycle to reflect employment on a government construction site. Records will include that of reflection of all labour employed by the main contractor personally as well as all the subcontractors on site. A separate sheet, although the same format, will be completed for Local Labour beneficiaries for the sub-contractor (if applicable).</p>			
<p><b><u>TRAINING OF YOUTH WORKERS</u></b> <b><u>(TARGET: 34 YOUTH WORKERS)</u></b></p>			
<p>Carried to Collection</p>		R	
<p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED</p>			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

Item	Quantity	Rate	Amount
<b><u>Life skills development and Technical training:</u></b>			
1	Life Skills development training for youth workers for an average of 5 days (ref. SL 11.01.01) Provisional		
	Item		238,000.00
2	Main Contractors Profit and Attendance	Item	
3	Technical Skills and training for youth workers for an average of 45 days (ref. SL 11.01.02)		
	Item		850,000.00
4	Main Contractors Profit and Attendance	Item	
<p><b>The above item is only applicable if DoL does not fund the Technical Training PRIOR to site handover.</b></p> <p><b>Payment reduction due to not meeting the target as in SL 11.01.02</b></p> <p><b>(An amount of R 2000.00 (Two Thousand Rand) will be deducted per youth worker)</b></p> <p><b><u>TRAVELLING AND ACCOMMODATION DURING OFF SITE TRAINING:</u></b></p> <p><b><u>Life skills training for 5 days (ref. SL 11.02.01)</u></b></p>			
5	Travelling (based on R150 / day return trip/facilitator.)	Item	750.00
Carried to Collection			R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

Item		Quantity	Rate	Amount
1	Accommodation (based on 5 nights / week and R800 / facilitator / night)	Item		4,000.00
<b><u>Technical training for 45 days (ref. SL 11.02.02):</u></b>				
2	Travelling (based on R150 / day return trip/facilitator.)	Item		6,750.00
3	Accommodation (based on 5 nights / week and R800 / facilitator (x1) / 39 nights)	Item		36,000.00
<b><u>Tests for Medical Fitness (ref. SL 11.02.03)</u></b>				
4	Provision of General Medical Practitioner or Clinic to examine EPWP youth workers on medical fitness before and after appointment (including COVID 19 PPE).	No	34.00	
5	Main Contractors Profit and Attendance	Item		
<b><u>ALTERNATIVE WORKERS FOR THE PERIOD OF OFF-SITE TRAINING:</u></b>				
6	Life skills training for 5 days (ref. SL 11.03.01)	Item		22,500.00
Carried to Collection				R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED				

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Technical training for youth workers for 45 days (ref. SL 11.03.02)			
		Item		150,000.00
	<b><u>EMPLOYMENT OF YOUTH WORKERS:</u></b>			
	The unit of measurement shall be the number of youth workers at the Ministerial Determination labour rates multiplied by the period employed in months and the rate tendered shall include full compensation for all costs associated with the employment of youth workers and for complying with the conditions of contract. The cost for the training shall be excluded from this item. This item is based on maximum of 9 months appointment for youth workers			
2	Employment of youth workers (off - site training)			
		Item		302,940.00
3	Main Contractors Profit and Attendance			
		Item		
4	Employment of youth workers (on - site training)			
		Item		908,820.00
5	Main Contractors Profit and Attendance			
		Item		
	<b><u>PROVISION OF EPWP PPE, BRANDED OVERALLS &amp; T-SHIRT/GOLF SHIRTS TO YOUTH WORKERS</u></b>			
6	Supply 2 x EPWP/NYS branded overalls, safety shoes, 1 x hard hats, 2 x PWP/NYS branded T-shirts,etc to youth workers (ref. SL 11.05.01) (SABS Branded)			
		Item		54,400.00
	Carried to Collection		R	
	Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT**  
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**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Main Contractors Profit and Attendance			
		Item		
	<b><u>PROVISION OF SMALL TOOLS FOR YOUTH WORKERS</u></b>			
2	Supply of small tools to all youth workers.			
	Specification to be supplied by the EPWP-NYS Service Provider for the respective trades. (ref. SL 11.06.02)			
	These tools will become the property of the youth workers after the completion of the programme.	Item		61,200.00
3	Main Contractors Profit and Attendance	Item		
	<b><u>PROVISION OF CATERING FOR EXIT WORKSHOP</u></b>			
4	Sourcing of catering company for provision of meals during NYS EXIT Workshop and arrangement of hiring venue for the workshop.	Item		30,000.00
	<b><u>APPOINTMENT OF YOUTH TEAM LEADER/S</u></b>			
5	Appointment of Youth Team Leader/s for the duration of the contract (ref. SL 11.07 )	Item		84,000.00
	<b><u>LIAISON WITH SERVICE PROVIDER</u></b>			
6	Liaison with Service Provider (ref. SL 11.08)			
	<u>The tendered rate shall include full compensation for the cost of liaising with the Service Provider and Social Facilitators on all issues regarding the works. Recorded times of these events are to be produced and agreed to on a monthly basis.</u>	Hrs	200	
	Carried to Collection			R
	Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4			
	Employment and Training of Labour on the EPWP-NYS ( CLARENCE BOBIE INCORPORATED			

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**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
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SECTION SUMMARY - Section No. 5 - Socio-Economic Deliverables (			
Bill No		Page	Amount
1	Local Labour (Provisional)	222	
2	Community Liaison Officer (Provisional)	223	
3	Training and Development Interventions (Provisional)	228	
4	Employment and Training of Labour on the EPWP-NYS (Provisional)	235	
Carried to Final Summary			R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
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FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Section No</u>	<u>FINAL SUMMARY</u>	<u>Page</u>		<u>Amount</u>
	<b><u>BUILDERS WORK</u></b>			
1	Section No. 1 - Preliminaries	35		
2	Section No. 2 - Demolitions and Alterations	46		
3	Section No. 3 - New Works	154		
4	Section No. 4 - External Works	219		
5	Section No. 5 - Socio-Economic Deliverables (CSDG Included)	236		
	Sub Total		R	
	<b><u>ELECTRICAL AND MECHANICAL INSTALLATION</u></b>			
	<b><u>Electrical</u></b>			
	<b>Add:</b> CCTV, Intercom & Access Control Installation from <u>Book 2 : Part C2 : ITEM C2.3a</u>	Item		
	<b>Add:</b> Standby Generator Installation from <u>Book 2 : Part C2 : ITEM C2.3b</u>	Item		
	<b>Add:</b> Electrical Installation from <u>Book 2 : Part C2 : ITEM C2.3c</u>	Item		
	<b><u>Mechanical</u></b>			
	<b>Add:</b> Booster Pump Installation from <u>Book 2 : Part C2 : ITEM C2.3d</u>	Item		
	<b>Add:</b> Fire Detection Installation from <u>Book 2 : Part C2 : ITEM C2.3e</u>	Item		
	Continued		R	
	CLARENCE BOBIE INCORPORATED			

**CDC/386/24 ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Section No</u>	<u>FINAL SUMMARY</u>	<u>Page</u>	<u>Amount</u>
	Continued		R
	<b>Add:</b> HVAC Installation from <u>Book 2 : Part C2 : ITEM C2.3f</u>	Item	
	Sub Total		R
	<b><u>ESCALATION</u></b>		
	Allow the sum of R1,540,000.00 (One Million Five Hundred and Forty Thousand Rand) for Building Cost Escalation to be adjusted in terms of the JBCC Contract Price Adjustment Provisions.		R 1,540,000.00
	Sub Total		R
	<b><u>CONTINGENCIES</u></b>		
	Allow the sum of R1,500,000.00 (One Million Five Hundred Thousand Rand) for Contingencies to be used or deducted in full at the Principal Agent's discretion.		R 1,500,000.00
	Sub Total		R
	<b>Add Value Added Tax at the rate of 15%</b>		R
	Sub Total		R
	<b><u>Credit for Materials</u></b>		
	Contractors credit (Deduct from sub-total) for old materials from demolitions and alterations (Excluding VAT)	Item	
	CARRIED TO FORM OF TENDER		R
	CLARENCE BOBIE INCORPORATED		

## Other Pricing Schedules



**public works**  
Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**FOR**

**REPAIRS AND ADDITIONS TO  
ELLIOT MAGISTRATE COURT**

**CCTV, INTERCOM & ACCESS CONTROL**  
**SPECIFICATION AND PRICING SCHEDULE**

**PREPARED FOR:**

Coega Development Corporation (Pty) Ltd  
Harraway House, No 12  
Pearce Street  
Berea  
East London  
5241

**PREPARED BY:**

Eye Sizwe consulting Engineers  
16 Allenby Road  
Selborne  
East London  
5213

**NAME OF TENDERER:** \_\_\_\_\_

**BILL OF QUANTITIES  
(PROVISIONAL)**

1. The descriptions in this Bill of Quantities shall be read in conjunction with the specification.
2. The unit rate for each item in the Price Schedules shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description.
3. All material covered by this Specification shall, wherever possible, be of South African manufacture
4. Each item shall be priced and extended to the Total column by the Tenderer. If the Tenderer omits to price any item in the bill of quantities then the cost of the work of each item shall be considered as included in the prices given for the other items.
5. The quantities of work and material set forth in the bill of quantities are estimates only and are not to be considered as limiting nor as extending the amount of work to be done and material to be supplied by the Contractor and the work and material set forth in the bill of quantities will be re measured. The Contractor shall ascertain the correct quantities before ordering. Items will only be paid for insofar as they have been supplied and installed. Excessive quantities or wastage shall not be paid for.
6. No alterations , erasure or addition is to be made in the text of the Document . Any alteration, erasure or addition made will not be recognized and the original working of the Document will be adhered to.
7. The prices quoted shall be exclusive of VAT as applicable.
8. All rates and amounts tendered in the bill of quantities shall be in Rand.
9. Tenderers shall check their calculations for arithmetical errors as the total Tender Price, as submitted , will remain fixed.

REPAIRS AND ADDITIONS TO ELLIOT MAGISTRATE COURT

CCTV, INTERCOM & ACCESS CONTROL INSTALLATIONS

SUMMARY OF BILL OF QUANTITIES

	DESCRIPTION	TENDER AMOUNT
	BILL Nº 1 - PRELIMINARY AND GENERAL	
	BILL Nº 2 - ACCESS CONTROL I	
	BILL Nº 2 - ACCESS CONTROL II	
	BILL Nº 2 - ACCESS CONTROL III	
	BILL Nº 2 - ACCESS CONTROL IV	
	BILL Nº 2 - ACCESS CONTROL V	
	BILL Nº 3 - INTERCOM I	
	BILL Nº 3 - INTERCOM II	
	BILL Nº 4 - CCTV I	
	BILL Nº 4 - CCTV II	
	BILL Nº 4 - CCTV III	
	BILL Nº 4 - CCTV IV	
	BILL Nº 4 - CCTV V	
	BILL Nº 5 - GENERAL - CCTV, INTERCOM & ACCESS CONTROL	
TOTAL TENDER AMOUNT EXCLUDING VAT CARRIED FORWARD TO BOQ SUMMARY PAGE		

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
	<b>BILL N° 1 - PRELIMINARY AND GENERAL</b>				
1	<b>PRELIMINARY AND GENERAL</b> A Preliminary and General item is provided to cover the Contractor's charges for compliance with the Conditions of Contract and this Specification, including the provision, maintenance and removal of his site establishment, etc.				
1.1	<b>FIXED CHARGES</b>				
1.1.1	Site Establishment	Sum	1		
1.1.2	Removal of Site Establishment	Sum	1		
1.1.3	Other Fixed-charge Obligations	Sum	1		
1.2	<b>VALUE RELATED ITEMS</b>				
1.2.1	Provision of Sureties	Sum	1		
1.2.2	Insurances	Sum	1		
1.2.3	Third Party Insurance	Sum	1		
1.2.4	Guarantee of the Works	Sum	1		
1.2.5	Provide Test Results	Sum	1		
1.2.6	All OHSA Requirements including safety equipment and clothing	Sum	1		
1.2.7	All HIV / AIDS Specification Requirements	Sum	1		
1.2.8	Other Value Related Obligations	Sum	1		
1.3	<b>TIME-RELATED ITEMS</b>				
1.3.1	Contractual Requirements	Sum	1		
1.3.2	Operation and Maintenance of Site Establishment	Sum	1		
1.3.3	Supervision for the Duration of Contract	Sum	1		
1.3.4	Other Time-Related Obligations	Sum	1		
<b>TOTAL FOR BILL N° 1 - CARRIED FORWARD TO SUMMARY</b>					



	<b>BILL N° 2 - ACCESS CONTROL I</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
2.1	<b><u>ACCESS CONTROL SYSTEM</u></b>				
2.1.1	Supply, installation and commissioning of the access control system complete with all required software (integrated with security / CCTV Management Software), complete as specified in Part 2 Approved System: ZKteco ZKAccess3.5 or updated version	Item	1		
2.1.2	<b>LICENCE</b> ZKteco BioCV-AC-10 Bio CVSecurity Access Module - 25 Door	Item	1		
2.2	<b>ACCESS CONTROL WORKSTATION</b> <ul style="list-style-type: none"> <li>• Precision Tower Workstation PC</li> <li>• Intel Core i7 - 14700</li> <li>• HDD :1 x 1TB SSD</li> <li>• RAM – 16 GB DDR5 RAM;</li> <li>• Intel Graphics Nvidia T1000 4 GB GDDR</li> <li>• Ports – 1 Parallel, 2 Serial, 6USB (2 at front &amp; 4 at back with USB 3.0 support),</li> <li>• 4 x HDMI, Front and rear USB type A &amp; C</li> <li>• DVD ROM;</li> <li>• LAN Card : Integrated 10/100/1000</li> <li>• MBPS Fast Ethernet with Wake on LAN Support;</li> <li>• Integrated Audio Controller;</li> <li>• Multimedia Internet ready Keyboard USB Optical Scroll Mouse;</li> <li>• Windows 10 Pro</li> <li>• Power supply Unit</li> </ul> Approved: Dell Precision 3680 Tower Workstation PC				
2.2.1	Supply	No	1		
2.2.2	Installation	No	1		
2.3	<b>MONITOR - 24 Inch</b> 24 inch Borderless LED Monitor complete for desk mounting including HDMI Cables Full HD (1920x1080 resolution), VGA and HDMI inputs, 75hz refresh monitor suitable for 24 hour operation Approved Monitor: Hikvision DS-D5024FN10 - 24 inch FHD VA Monitor				
2.3.1	Supply	No	1		
2.3.2	Installation	No	1		
2.4	<b>CARD REGISTRATION READER</b> Card registration read / write complete as specified in Part 2 - Installation Details Approved Reader: ZKteco CR20E Enrollment registration reader - EM 125kHz - USB				
2.4.1	Supply	No	1		
2.4.2	Installation	No	1		
<b>TOTAL FOR BILL N° 2 - ACCESS CONTROL I - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 2 - ACCESS CONTROL II	UNIT	QTY	RATE	TENDER AMOUNT
2.5	<b>BIOMETRIC REGISTRATION READER</b> Biometric registration reader complete as specified in Part 2 - Installation Details Approved Reader: ZKTeco SLK20R USB Fingerprint scanner				
2.5.1	Supply	No	1		
2.5.2	Installation	No	1		
2.6	<b>IP DOOR CONTROLLER AND ACCESSORIES</b> IP Based Biometric one Door controller, Including Metal enclosure - 12VDC 3Amp PSU and Battery 12V 7.2Ah SLA. Approved equipment: ZKTeco InBio160Pro Door Controller - One Door - Green Label. ZKTeco Metal enclosure to suit				
2.6.1	Supply	No	16		
2.6.2	Installation	No	16		
2.7	<b>ACCESS CONTROL READERS</b> Finger print and card reader as specified Approved: ZKTeco FR1500 Fingerprint Reader - SilkID - EM 125kHz				
2.7.1	Supply	No	30		
2.7.2	Installation	No	30		
2.8	Cable management bracket for Readers Approved: ZKTeco Cable Management Bracket for FR1500-WP Reader				
2.8.1	Supply	No	30		
2.8.2	Installation	No	30		
2.9	Weather proof cover for Readers Approved: ZKTeco Rainshield for FR1500-WP Reader				
2.9.1	Supply	No	4		
2.9.2	Installation	No	4		
2.10	<b>CARD PRINTER</b> Colour Card Printer for printing access cards, complete with software, 2 Colour and 2 Black ribbons Approved: Zebra ZC300 Thermal Transfer Colour 300 x 300 DPI Plastic Card Printer Dye-sublimation ZC31-000C000EM00				
2.10.1	Supply	No	1		
2.10.2	Installation	No	1		
2.11	<b>CARDS</b> Printable RFID Cards (125kZ)	No	100		
2.12	<b>MAGLOCK LOCK KIT AND DOOR RECLOSER</b> Magnetic Door Lock kit (300kg's) and medium strength door recloser for 60 to 85kg Doors complete for single leaf door including Z Bracket.				
2.12.1	Supply	No	15		
2.12.2	Install	No	15		
<b>TOTAL FOR BILL N° 2 - ACCESS CONTROL II - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 2 - ACCESS CONTROL III	UNIT	QTY	RATE	TENDER AMOUNT
2.13	<b>SECURITY ELECTRIC LOCK (HEAVY DUTY)</b> 12V Heavy duty electrically operated lock for steel doors / gates for both left and right hang doors, (2000kg 12VAC with Protective steel case), including 6 keys.				
2.13.1	Supply	No	1		
2.13.2	Install	No	1		
2.14	<b>POWER SUPPLIES</b> Power supply, 12VDC 3Amp PSU and Battery 12V 7.2Ah SLA battery backup complete with metal housing. Approved: ZKTeco inBio - Power supply control panel				
2.14.1	Supply	No	2		
2.14.2	Install	No	2		
2.15	<b>DOOR MONITORING</b> Magnetic Contact Wide Gap NC switches to monitor access through doors complete, to be linked to access control system. Alarm shall be shown on the Access control monitor				
2.15.1	Supply	No	16		
2.15.2	Install	No	16		
2.16	<b>PANIC / PUSH BUTTON HEAVY DUTY</b> Surface mounted Push Button - Heavy Duty R/ST-17 N/O. Wired into controllers.				
2.16.1	Supply	No	20		
2.16.2	Install	No	20		
2.17	<b>BREAK GLASS DOOR RELEASES</b> Green emergency break glass units with resetable element mounted at access control doors to override access control door in an emergency. Including suitable recessed box.				
2.17.1	Supply	No	17		
2.17.2	Install	No	17		
2.18	<b>MOTORISED GATE SYSTEM (SLIDING)</b> Heavy duty motorised gate system for sliding gate as specified in Part 2, including all the necessary equipment, base / foundation plate, minimum of 7m METAL racks (30x10mm), wireless receiver, anti theft bracket, same keyed lock and Centurion enclosure for 2 Stable Power Battery 12VDC 18Ah SLA included. Approved: Centurion D20 Smart				
2.18.1	Supply	No	2		
2.18.2	Installation	No	2		
2.19	<b>MOTORISED GATE SYSTEM (SWING)</b> Double leaf motorised gate system for swing gates as specified in Part 2, including all the necessary equipment, wireless receiver, controller wall box, drive arms, mounting kits, ground mounting pedestal, same keyed lock, battery back up - Lithium (LiFePO4) 12.8V 7AH. Swing gates shall include all interconnecting wiring for individual free standing gate motors. Approved: Centurion R6				
2.19.1	Supply	No	1		
2.19.2	Install	No	1		
TOTAL FOR BILL N° 2 - ACCESS CONTROL III - CARRIED FORWARD TO SUMMARY					

	<b>BILL N° 2 - ACCESS CONTROL IV</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
2.20	Gate loop detection to allow for automatic opening of gate - buried including cable				
2.20.1	Supply	No	2		
2.20.2	Install	No	2		
2.21	Set of wired infra red beams for anti closing complete with cable in 20mm PVC conduit per gate				
2.21.1	Supply	No	2		
2.21.2	Install	No	2		
2.22	U- shaped protection barrier (to protect gooseneck or motor) formed of 80mm x 80mm x 5mm square mild steel barrier welded in a square U-shape. Barrier shall be 600mm High with a 400mm horizontal. Protection barrier to be powder coated black with yellow reflective tape on each corner. Barrier to be suitable for casting into concrete plinth.				
2.22.1	Supply	No	4		
2.22.2	Install	No	4		
2.23	<b>REMOTE CONTROLS</b>				
2.23.1	Four button remote control with batteries and programmed for two gate operation	No	10		
2.24	<b>GATE INTERLOCKING SYSTEM</b>				
2.24.1	Gate interlocking system, including all contacts and controls as specified in Part 2. (Motorised accused gate 1 to have gate closing sensors interlocked with Roll up door entrance gate 2 sensors. Motorised gate 1 can only operate if the Roll up door gate 2 is closed and vice versa. (Gate operation is interlocked). Control Room to open and close the gates.	Item	1		
2.25	<b>LOCK DOWN SYSTEM</b>				
2.25.1	Emergency lock down systems utilising the Access Control system, as specified in Part 2. Control Room to operate the lockdown process.	Item	1		
2.26	<b>X-RAY MACHINE</b> DUAL ENERGY X-Ray Inspection System , conveyor belt, stand, entrance and exit rollers, remotely operated colour screen and keyboard, complete as per the X-Ray machine technical specifications specified in Part 2 - Installation Details. Approve: ZKTECO - DUAL ENERGY X-Ray Inspection System (ZKX6550)				
2.26.1	Supply	No	1		
2.26.2	Install	No	1		
2.27	<b>LICENCE</b>				
2.27.1	Application and completion of Licence for X-Ray Machine	Item	1		
2.28	<b>GOODS TRAY</b>				
2.28.1	Goods trays to pass through X-Ray Machine	No	3		
2.29	<b>WALK THROUGH METAL DETECTOR</b> Walk Through Metal Detector (Multi zone) complete as specified in Part 2 - Installation Details Approve: ZKTeco – ZK-D4330 Walk Through Metal Detector				
2.29.1	Supply	No	1		
2.29.2	Install	No	1		
<b>TOTAL FOR BILL N° 2 - ACCESS CONTROL IV - CARRIED FORWARD TO SUMMARY</b>					

	<b>BILL N° 2 - ACCESS CONTROL V</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
2.30	<b>HAND HELD METAL DETECTOR</b>				
2.30.1	Hand held metal detectors - Includeing Battery & Charger Approved: ZKTeco ZK-D160K Hand Held Metal Detector	No	2		
2.31	<b>CABLE</b> Rate to include for the supply, delivery, including installation, connection/termination and wastage in basket/conduit/trunking/sleeves.				
2.31.1	0.5mm² - Twin flex				
2.31.1.1	Supply	m	150		
2.31.1.2	Install	m	150		
2.31.2	Cat 6e UTP Yellow				
2.31.2.1	Supply	m	700		
2.31.2.2	Install	m	700		
2.31.3	Cat 6e UTP Ruggedized UV protected outdoor network cable - Black				
2.31.3.1	Supply	m	100		
2.31.3.2	Install	m	100		
2.32	<b>OTHER MATERIALS</b>				
2.32.1	Tenderer to make allowance for any further materials for the complete installation of the Access Control installation as per the Specification	Item	1		
2.33	<b>COORDINATION OF INSTALLATION WITH OTHER SUB CONTRACTORS</b>				
2.33.1	Allow for the onsite coordination of the required power points, conduits and wireways for the Access Control installation with the electrical sub contractor,.	Item	1		
2.34	<b>COMMISSIONING AND TESTING OF THE COMPLETE ACCESS CONTROL INSTALLATION</b>				
2.34.1	Allow for the commissioning and testing of the complete installation including the issuing of test certificates.	Item	1		
<b>TOTAL FOR BILL N° 2 - ACCESS CONTROL V - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 3 - INTERCOM I	UNIT	QTY	RATE	TENDER AMOUNT
3.1	<b>INTERCOM INSTALLATION (IP VIDEO)</b>				
3.1.1	Supply, installation and commissioning of the access control system complete with all required software (integrated with security / CCTV Management Software), complete as specified in Part 2 Approved System: ZKteco ZKAccess3.5 or updated version	Item	1		
3.2	<b>INTERCOM LICENCE</b> Approved VMS: HikCentral Professional V2.5.1 HikCentral-P-IndoorStation-1Unit Video Intercom Indoor Station Expansion package.Prerequisite:Video Intercom Module Expansion package.Supported: 1 indoor station manageable.				
3.2.1	Supply	No	5		
3.2.2	Installation	No	5		
3.3	<b>INTERCOM LICENCE</b> Approved VMS: HikCentral Professional V2.5.1 HikCentral-P-OutdoorStation-1Unit Video Intercom Outdoor Station Expansion package Prerequisite:Access Control Base package Warranty:none Supported: -Access Control: 1 door manageable -Video Intercom: 1 outdoor station manageable.; Additional: Answering calls, Notice applying				
3.3.1	Supply	No	9		
3.3.2	Installation	No	9		
3.4	<b>INTERCOM LICENCE</b> HikCentral-P-ACS-2Door/Base/Promo - Delivery I, HikCentral access control base package - which includes prerequisites for door expanding, all fundamental features of ACS and 2 doors manageable.				
3.4.1	Supply	No	14		
3.4.2	Installation	No	14		
3.5	<b>IP MASTER STATION</b> IP Master Station complete as specified. Approved equipment: HIKVISION DS-KM9503 video intercom master station "				
3.5.1	Supply	No	1		
3.5.2	Installation	No	1		
3.6	<b>NETWORK INDOOR STATION</b> 'Network Indoor Station with 7inch Touch screen, complete as specified. Approved: HIKVISION DS-KH6320-WTE1				
3.6.1	Supply	No	1		
3.6.2	Installation	No	1		
3.7	<b>INDOOR STATION</b> 'IP Video Intercom Module Door Station for INDOOR use with surface mounted box, complete as specified. Approved: HIKVISION DS-KD8003-IME1/S video intercom				
3.7.1	Supply	No	5		
3.7.2	Installation	No	5		
3.8	<b>OUTDOOR STATION</b> 'IP Video Intercom Module Door Station for OUTDOOR use with custom made Stainless steel enclosure complete as specified. Approved: HIKVISION DS-KD8003-IME1/S video intercom				
3.8.1	Supply	No	9		
3.8.2	Installation	No	9		
<b>TOTAL 'BILL N° 3 - INTERCOM I - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 3 - INTERCOM II	UNIT	QTY	RATE	TENDER AMOUNT
3.9	<b>GOOSE NECK</b> Free Standing Stainless steel Goose neck (910mm Total Height and 400mm overhang) with base for mounting to concrete, for intercom and access control reader installations. Including custom made stainless steel weather proof enclosure to house Intercom Door Station and Finger print and card reader. (Station and readers measured elsewhere).				
3.9.1	Supply	No	4		
3.9.2	Installation	No	4		
3.10	<b>CABLE</b> Rate to include for the supply, delivery, including installation, connection/termination and wastage in basket/conduit/trunking/sleeves.				
3.10.1	0.5mm² - Twin flex				
3.10.1.1	Supply	m	50		
3.10.1.2	Install	m	50		
3.10.2	Cat 6e UTP Yellow				
3.10.2.1	Supply	m	700		
3.10.2.2	Install	m	700		
3.10.3	Cat 6e UTP Ruggedized UV protected outdoor network cable - Black				
3.10.3.1	Supply	m	100		
3.10.3.2	Install	m	100		
3.11	<b>PVC TRUNKING</b> YT/3 40mm x 16mm compact PVC trunking and cover				
3.11.1	Supply	m	100		
3.11.2	Installation	m	100		
3.12	<b>OTHER MATERIALS</b>				
3.12.1	Tenderer to make allowance for any further materials for the complete installation of the Access Control installation as per the Specification	Item	1		
3.13	<b>COORDINATION OF INSTALLATION WITH OTHER SUB CONTRACTORS</b>				
3.13.1	Allow for the onsite coordination of the required power points, conduits and wireways for the Intercom installation with the electrical sub contractor,.	Item	1		
3.14	<b>COMMISSIONING AND TESTING OF THE COMPLETE INTERCOM INSTALLATION</b>				
3.14.1	Allow for the commissioning and testing of the complete installation including the issuing of test certificates.	Item	1		
<b>TOTAL 'BILL N° 3 - INTERCOM II - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 4 - CCTV I	UNIT	QTY	RATE	TENDER AMOUNT
4.1	<b><u>CCTV INSTALLATION (IP)</u></b>				
4.1.1	<b>VIDEO MANAGEMENT SYSTEM</b> Complete Video Management System installed onto VMS Rack mount Server. Approved : HikCentral Professional V2.5.1 or latest suitable package	Item	1		
4.2	<b>VMS LICENCE - 64 Channel</b> Video Management System Base licence 64 Channels. Approved VMS: HikCentral Professional V2.5.0				
4.2.1	Supply	No	1		
4.2.2	Installation	No	1		
4.3	<b>VMS LICENCE - 1 Channel</b> Video Management System licence - 1 Channel Approved VMS: HikCentral Professional V2.5.1				
4.3.1	Supply	No	18		
4.3.2	Installation	No	18		
4.4	<b>VMS LICENCE - Video Wall Module</b> Smart Wall Base licence Approved VMS: HikCentral Professional V2.5.1				
4.4.1	Supply	No	1		
4.4.2	Installation	No	1		
4.5	<b>CCTV CAMERAS</b> Supply and install as specified, including all necessary fixing and mounting equipment (brackets etc) associated to their mounting positions as specified in Part 2 - Installation Details				
4.5.1	<b>Camera Type 1</b> Indoor dome IP camera (4MP) with 2.8mm lens, IK10 and IP67. Complete with all accessories needed for operation. Approved camera: HIKVISION DS-2CD3146G2-IS.				
4.5.1.1	Supply	No	30		
4.5.1.2	Install	No	30		
4.5.2	Surface mounting back box (DS-1280ZJ-DM46) for Camera Type 1. Complete with all accessories needed for operation.				
4.5.2.1	Supply	No	6		
4.5.2.2	Install	No	6		
4.5.3	<b>Camera Type 2</b> Indoor mini dome IP camera (4MP) with 2.8mm lens, IK08 and IP67. Complete with all accessories needed for operation. Approved camera: HIKVISION DS-2CD3546G2-IS.				
4.5.3.1	Supply	No	3		
4.5.3.2	Install	No	3		
4.5.4	<b>Camera Type 3</b> Outdoor wall mounted IP camera (4MP) with 7-35mm lens, IK10 and IP67. Complete with Cable Managed Housing/Bracket and all accessories needed for operation. Approved camera: HIKVISION DS-2CD3646G2T-IZSY (Moderate Protection) Approved VMS: HikCentral Professional V2.5.1				
4.5.4.1	Supply	No	31		
4.5.4.2	Installation	No	31		
<b>TOTAL 'BILL N° 4 - CCTV I - CARRIED FORWARD TO SUMMARY</b>					



	BILL N° 4 - CCTV II	UNIT	QTY	RATE	TENDER AMOUNT
4.5.6	<b>Camera Type 4</b> Outdoor wall mounted IP camera (4MP) with 2.7-13.5mm lens, IK10 and IP67. Complete with Cable Managed Housing/Bracket and all accessories needed for operation. Approved camera: HIKVISION DS-2CD3646G2T-IZSY (Moderate Protection)				
4.5.6.1	Supply	No	14		
4.5.6.2	Installation	No	14		
4.5.7	<b>Camera Type 5</b> External wall mounted PTZ camera, TandemVu PTZ camera (4MP), with wall mount bracket (DS-1603ZJ-P) and power supply, IK10 and IP67 Approved camera: HIKVISION DS-2SF8C425MXG-EL/26				
4.5.7.1	Supply	No	2		
4.5.7.2	Installation	No	2		
4.5.8	Universal digital keyboard/Joystick controller for PTZ cameras connected to workstations including cabling. Approved controller: DS-1005KI USB Keyboard				
4.5.8.1	Supply	No	1		
4.5.8.2	Installation	No	1		
4.6	<b>VMS SERVER</b> Intel Core i7 - 14700, 16gb DDRx Ram, 2x 2TB 3.5 inch SATA, Windows 10 Pro, Gigabit network port, 4x HDMI monitor Outputs, DVD Rom - USB keyboard and mouse Approved Server: Dell Rackmount Server R250				
4.6.1	Supply	No	1		
4.6.2	Installation	No	1		
4.7	<b>NETWORK VIDEO RECORDERS</b> 32 Channel Network Video Recorders including 3 x 4 TB SATA SSD drives as specified in Part 2 - Installation Details. Approved NVR: HIKVISION DS-9632NXI-I8/S Network Video Recorders				
4.7.1	Supply	No	3		
4.7.2	Installation	No	3		
4.8	<b>NETWORK SWITCH</b> Power over ethernet 48 port network switch installed in cabinet, managed layer 3, 6kV Surge protection, complete with 48Gbs Stacking module and stacking cable.				
4.8.1	Supply	No	1		
4.8.2	Installation	No	1		
4.9	<b>NETWORK SWITCH</b> Power over ethernet 24 port network switch installed in cabinet, managed layer 3, 6kV Surge protection, complete with 48Gbs Stacking module and stacking cable.				
4.9.1	Supply	No	4		
4.9.2	Installation	No	4		
TOTAL 'BILL N° 4 - CCTV II - CARRIED FORWARD TO SUMMARY					

	BILL N° 4 - CCTV III	UNIT	QTY	RATE	TENDER AMOUNT
4.11	<b>WORKSTATIONS, MONITORS AND ACCESSORIES</b> CCTV Workstation PC • Precision Tower Workstation PC • Intel Core i7 - 14700 • HDD : 1x 1TB SSD • RAM – 16 GB DDR5 RAM; • Intel Graphics Nvidia T1000 4 GB GDDR • Ports – 1 Parallel, 2 Serial, 6USB (2 at front & 4 at back with USB 3.0 support), • 4 x HDMI, Front and rear USB type A & C • DVD ROM; • LAN Card : Integrated 10/100/1000 • MBPS Fast Ethernet with Wake on LAN Support; • Integrated Audio Controller; • Multimedia Internet ready Keyboard USB Optical Scroll Mouse; • Windows 10 Pro • Power supply Unit  Approved: Dell Precision 3680 Tower Workstation PC				
4.11.1	Supply	No	3		
4.11.2	Installation	No	3		
4.12	<b>MONITOR - 46 Inch</b> 46 inch, 24 hour operation LCD monitor complete with wall mounting bracket as specified including 20m HDMI Cabling. Approved Monitor: HIKVISION DS-D2046LU-Y 46 inch				
4.12.1	Supply	No	3		
4.12.2	Installation	No	3		
4.13	<b>MONITOR - 24 Inch</b> 24 inch Borderless LED Monitor complete for desk mounting including HDMI Cables Full HD (1920x1080 resolution), VGA and HDMI inputs, 75hz refresh monitor suitable for 24 hour operation Approved Monitor: Hikvision DS-D5024FN10 - 24 inch FHD VA Monitor				
4.13.1	Supply	No	6		
4.13.2	Installation	No	6		
4.14	<b>ANTI VIRUS</b> Anti Virus Software to protect workstations on an open or closed network against viruses of an intentional or unintentional nature				
4.14.1	Supply	No	3		
4.14.2	Installation	No	3		
4.15	<b>PRINTER</b> A4 Mono Laser printer for reports / Alarms. Black with minimum of 19 ppm and 1200 x 1200DPI complete with software and 2 additional original cartridges.				
4.15.1	Supply	No	1		
4.15.2	Installation	No	1		
4.16	<b>SAPS DESK MONITOR AND DECODER</b> 16 Chanel IP Split Screen Video decoder complete in SAPS security office to allow for remote camera viewing of selected cameras, complete with cabling				
4.16.1	Supply	No	1		
4.16.2	Installation	No	1		
TOTAL 'BILL N° 4 - CCTV III - CARRIED FORWARD TO SUMMARY					

	BILL N° 4 - CCTV IV	UNIT	QTY	RATE	TENDER AMOUNT
4.18	<b>MONITOR - 24 Inch</b> 24 inch Borderless LED Monitor complete for desk mounting including HDMI Cables Full HD (1920x1080 resolution), VGA and HDMI inputs, 75hz refresh monitor suitable for 24 hour operation Approved Monitor: Hikvision DS-D5024FN10 - 24 inch FHD VA Monitor				
4.18.1	Supply	No	1		
4.18.2	Installation	No	1		
4.19	<b>CCTV SURGE PROTECTION</b>				
4.19.1	Single Channel Gigabit Network and PoE Surge Protector mounted at outdoor cameras (Gigabit Single port RJ45 POE)				
4.19.1.1	Supply	No	50		
4.19.1.2	Install - Including Connecting to nearest earth point	No	50		
4.19.2	2.5 mm Green and Yellow Insulated Earth Wire				
4.19.2.1	Supply	m	200		
4.19.2.2	Install	m	200		
4.20	<b>CCTV AND ACCESS CONTROL CABINETS</b>				
4.20.1	47U Free Standing Cabinet 1m long, complete with 4 x Extraction fans, 2 x 5 Way surge protected plugs, all necessary shelves and blanking plates (No open slots allowed). Cabinet shall have heavy duty coasters.				
4.20.1.1	Supply	No	1		
4.20.1.2	Install	No	1		
4.20.2	12U wall mounted (Swing Frame and 100mm Collar) cabinet complete with 2 x Extraction fans, 1 x 5 Way surge protected plug.				
4.20.2.1	Supply	No	2		
4.20.2.2	Install	No	2		
4.21	<b>UNINTERRUPTIBLE POWER SUPPLIES</b>				
4.21.1	2kVA True online double conversion, Pure Sine Wave, Rack mount UPS with 4 x 12V / 9AH Battery				
4.21.1.1	Supply	No	2		
4.21.1.2	Install	No	2		
4.21.2	3kVA True online double conversion, Pure Sine Wave, Rack mount UPS with 6 x 12V / 9AH Battery				
4.21.2.1	Supply	No	1		
4.21.2.2	Install	No	1		
4.22	<b>CCTV GALVANISED STEEL POLES</b> Galvanised steel pole complete with brackets to allow for 4 CCTV cameras, mounting at a minimum of 3.5m above ground				
4.22.1	Supply	No	2		
4.22.2	Installation	No	2		
<b>TOTAL 'BILL N° 4 - CCTV IV - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 4 - CCTV V	UNIT	QTY	RATE	TENDER AMOUNT
4.23	<b>CABLE</b> Rate to include for the supply, delivery, including installation, connection/termination and wastage in basket/conduit/trunking/sleeves.				
4.23.1	Cat 6e UTP Yellow				
4.23.1.1	Supply	m	2,000		
4.23.1.2	Install	m	2,000		
4.23.2	Cat 6e UTP Ruggedized UV protected outdoor network cable - Black				
4.23.2.1	Supply	m	400		
4.23.2.2	Install	m	400		
4.24	<b>OTHER MATERIALS</b>				
4.24.1	Tenderer to make allowance for any further materials for the complete installation of the Access Control installation as per the Specification	Item	1		
4.25	<b>COORDINATION OF INSTALLATION WITH OTHER SUB CONTRACTORS</b>				
4.25.1	Allow for the onsite coordination of the required power points, conduits and wireways for the CCTV installation with the electrical sub contractor,.	Item	1		
4.26	<b>COMMISIONING AND TESTING OF THE COMPLETE CCTV INSTALLATION</b>				
4.26.1	Allow for the commissioning and testing of the complete installation including the issuing of test certificates.	Item	1		
<b>TOTAL 'BILL N° 5 - CCTV V - CARRIED FORWARD TO SUMMARY</b>					

	<b>BILL N° 5 - GENERAL - CCTV, INTERCOM &amp; ACCESS CONTROL</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
5.1	<b><u>GENERAL - CCTV, INTERCOM &amp; ACCESS CONTROL</u></b>				
5.2	<b>GUARANTEE</b> Allow for the Guarantee and Maintenance of all CCTV, Intercom and Access Control equipment installed for a period of 12 months as per the specification. Commencement date shall be from Practical Completion.	Item	1		
5.3	<b>TRAINING FOR CCTV, INTERCOM AND ACCESS CONTROL INSTALLATIONS</b>				
5.3.1	Training Session No 1 as specified	Item	1		
5.3.2	Additional Training Session No 2 as specified	Item	1		
5.4	<b>AD HOC MAINTENANCE AND SUPERVISION OF THE CCTV INTERCOM &amp; ACCESS CONTROL SYSTEMS</b> On site Maintenance on the system, Software updates, problem solving, additional training and supervision of the complete CCTV, Intercom & Access Control systems by a qualified technician. This shall be on an adhoc basis, when called for by the user client. This is to be undertaken after Practical Completion.				
5.4.1	On site maintenance by qualified technician including travel costs (allow separate trips).	No	4		
5.5	<b>OPERATING AND MAINTENANCE MANUALS</b> Comprehensive Operating and Maintenance Manuals for all the installations, as specified, must be supplied at the date of training or practical completion (Which ever occurs sooner) It must contain a minimum of: <ul style="list-style-type: none"> <li>• General description of system.</li> <li>• Full operating instructions.</li> <li>• Full list of all equipment supplied with their Serial No, IP address and position on the As-Built drawings</li> <li>• All features available on the system.</li> <li>• All installation requirements.</li> <li>• Technical Specification of the system.</li> <li>• Details of all adjustments on the system.</li> <li>• All wiring diagrams, connection diagrams.</li> <li>• Fault finding and repairs</li> <li>• Correct Maintenance procedures</li> <li>• Recommended spares list</li> <li>• Names and contact details of suppliers</li> </ul>				
5.5.1	Production and issuing of complete sets of Paper operating and maintenance manuals.	No	4		
5.5.2	The issuing of the complete Operating and Maintenance manuals electronically on a flash drive	No	1		
5.6	<b>AS-BUILT DRAWINGS</b> 'Comprehensive As Built Drawings of all the installations, as specified, must be supplied at the date of training or practical completion (Which ever occurs sooner) It must contain a minimum of: <ul style="list-style-type: none"> <li>• Updated positions of all installed equipment with their serial number and IP Address</li> <li>• Updated cabling routes and circuitising</li> <li>• All general arrangement drawings;</li> <li>• Detailed drawings of all system hardware and equipment;</li> <li>• Complete wiring diagrams and block schematic diagrams.</li> <li>• A list of all equipment including their Serial numbers and IP Address</li> </ul>	No	1		
5.7	<b>LABELLING</b> Labelling of all CCTV, Intercom and Access Control equipment. Labels to be permanent and waterproof.	No	1		
<b>TOTAL FOR BILL N° 5 - CARRIED FORWARD TO SUMMARY</b>					



**public works**  
Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**FOR**

**REPAIRS AND ADDITIONS TO  
ELLIOT MAGISTRATE COURT**

**STANDBY GENERATOR INSTALLATION**

**SPECIFICATION AND PRICING SCHEDULE**

**PREPARED FOR:**

Coega Development Corporation (Pty) Ltd  
Harraway House, No 12  
Pearce Street  
Berea  
East London  
5241

**PREPARED BY:**

Eye Sizwe consulting Engineers  
16 Allenby Road  
Selborne  
East London  
5213

**NAME OF TENDERER:** \_\_\_\_\_

## SECTION 5 – BILL OF QUANTITIES

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## **5. SECTION 5 – BILL OF QUANTITIES**

### **5.1. General**

- 1) The descriptions in this Bill of Quantities shall be read in conjunction with the specification.
- 2) The unit rate for each item in the Price Schedules shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description.
- 3) All material covered by this Specification shall, wherever possible, be of South African manufacture.



## 5.2. Bill of Quantities

Item	Description	Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3</u></b></p> <p><b><u>ELECTRICAL INSTALLATION</u></b> (Provisional)</p> <p><b><u>BILL 14</u></b> <b><u>STANDBY GENERATOR INSTALLATION</u></b></p> <p><b><u>PREAMBLES</u></b> For Preambles refer to "Department of Public Works: Standard Electrical Specifications-PW354 "</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Specifications, drawings, etc:</u></b> Tenderers are referred to the specification and drawings prepared by the Consulting Engineer, included in the tender package, for the full descriptions of all items which are to be read and priced in conjunction with the said specification and drawings.</p> <p><b><u>PRELIMINARIES AND GENERAL</u></b></p> <p>1 Preliminaries and general required to comply with the conditions of contract, insurances and all regulations governing this contract.</p> <p><b><u>GENERATOR INSTALLATION</u></b></p> <p>2 150kVA (Prime) self contained sound proof canopy (3CR12 - Minimum 1.5mm Thickness and base Minimum 3.5mm Thickness ) generator set complete with AMF Control Panel, Changeover, 4 Position By Pass Switch, stainless steel exhaust as specified, including fuel tank (for 24 hour operation). All offloading requirements to be included. Tenderers are to note that the AMF and electrical panels are to be compartmentalised with their own mains isolator. All ammeters/ volt meters/ battery charging and run hour meters etc must be supplied on the control panel in addition to the display readings from the AMF controller. Generator to incorporate all items detailed within the tender specification.</p> <p>3 4 Stage (40%) dummy load control system as per the specification. Rated as per generator suppliers specifications and ensuring the machine always runs under load conditions</p> <p>4 Diesel Fuel</p> <p>5 Heavy Duty 200l Diesel fuel storage drums</p> <p>6 All danger signage and painting as per Department of Public Works Standard Drawings</p> <p>7 Electric Fuel Pump and related pipework inside generator canopy (15m of pipe)</p> <p>8 Manual Fuel Pump</p> <p>9 Remote Alarm Mimic Panel installed at the Security Control Room</p>	<p>Item</p> <p>Item</p> <p>Item</p> <p>litres</p> <p>N°</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p> <p>Item</p>	<p>1</p> <p>1</p> <p>1</p> <p>300</p> <p>2</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p>		
	<b>PAGE TOTAL CARRIED FORWARD</b>				<b>R</b>

Item	Description	Unit	Quantity	Rate	Amount
	<b>AMOUNT BROUGHT FORWARD FROM PREVIOUS PAGE</b>				<b>R</b>
10	Suitable Sized Screened Multi Core control cable with 2 spare pairs to connect to the Remote Alarm Mimic panel from the Genset to Mimic Panel in control room.	m	65		
11	Complete earthing of Generator set - (4 x 1.8m earth studs and interconnecting 70mm <sup>2</sup> Bare Copper earth wire) as per the specification.	Item	1		
12	Padlocks - A82 brass padlocks with stainless steel shackle.	No	5		
13	Warning notices - Set of Warning Notices as per SANS and OHS specifications	Item	1		
14	Complete set Operation and Maintenance Manuals	No	4		
15	Complete On Site Testing and Commissioning of the generator by the specialist generator supplier/installer	Item	1		
16	12 Months Guarantee and Maintenance as specified.	Item	1		
17	On site service of the plant as per the manufacturer's requirements	No	4		
18	Full training of staff with all manuals and applicable documentation. Training date to be determined by User Department (2 Separate training sessions to be completed)	No	2		
	<b>GENERATOR FACTORY INSPECTION</b>				
19	Cost for on site inspection and testing of the standby generator at the suppliers factory by the Engineer. Tenderer to allow for all transport costs including Airfare and transport from Airport to the suppliers factory. Costs to be based from East London to the manufacturer and shall include accomodation cost if not a 1 day trip.	Item	1		
	<b>GENERATOR ELECTRICAL CERTIFICATE OF COMPLIANCE</b>				
20	Allow for the testing and issuing of an electrical certificate of compliance for the generator set.	Item	1		
<b>TOTAL TENDER AMOUNT EXCL VAT CARRIED FORWARD TO MAIN CONTRACT FINAL SUMMARY</b>					<b>R</b>

**6. SECTION 6 – DRAWINGS**

**6.1. Drawings**

Drawing Number	Drawing
E181 E4.1	SINGLE LINE DIAGRAM DB MAIN
E181 E4.11	SINGLE LINE DIAGRAM LEGEND
PUBLIC WORKS	TYPICAL GENERATOR SAFETY SIGNAGE



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**FOR**

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ELLIOT MAGISTRATE COURT**

**ELECTRICAL INSTALLATION**

**SPECIFICATION AND PRICING SCHEDULE**

**PREPARED FOR:**

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**PREPARED BY:**

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16 Allenby Road  
Selborne  
East London  
5213

**NAME OF TENDERER:** \_\_\_\_\_

**BILL OF QUANTITIES  
(PROVISIONAL)**

1. The descriptions in this Bill of Quantities shall be read in conjunction with the specification.
2. The unit rate for each item in the Price Schedules shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description.
3. All material covered by this Specification shall, wherever possible, be of South African manufacture
4. Each item shall be priced and extended to the Total column by the Tenderer. If the Tenderer omits to price any item in the bill of quantities then the cost of the work of each item shall be considered as included in the prices given for the other items.
5. The quantities of work and material set forth in the bill of quantities are estimates only and are not to be considered as limiting nor as extending the amount of work to be done and material to be supplied by the Contractor and the work and material set forth in the bill of quantities will be re measured. The Contractor shall ascertain the correct quantities before ordering. Items will only be paid for insofar as they have been supplied and installed. Excessive quantities or wastage shall not be paid for.
6. No alterations , erasure or addition is to be made in the text of the Document . Any alteration, erasure or addition made will not be recognized and the original working of the Document will be adhered to.
7. The prices quoted shall be exclusive of VAT as applicable.
8. All rates and amounts tendered in the bill of quantities shall be in Rand.
9. Tenderers shall check their calculations for arithmetical errors as the total Tender Price, as submitted , will remain fixed.

REPAIRS AND ADDITIONS TO ELLIOT MAGISTRATE COURT

ELECTRICAL INSTALLATION

SUMMARY OF BILL OF QUANTITIES

	DESCRIPTION	TENDER AMOUNT
	BILL Nº 1 - PRELIMINARY AND GENERAL	
	BILL Nº 2 - LV DISTRIBUTION BOARDS I	
	BILL Nº 2 - LV DISTRIBUTION BOARDS II	
	BILL Nº 3 - LV CABLES & RETICULATION I	
	BILL Nº 3 - LV CABLES & RETICULATION II	
	BILL Nº 3 - LV CABLES & RETICULATION III	
	BILL Nº 4 - LIGHTING AND POWER I	
	BILL Nº 4 - LIGHTING AND POWER II	
	BILL Nº 4 - LIGHTING AND POWER III	
	BILL Nº 4 - LIGHTING AND POWER IV	
	BILL Nº 4 - LIGHTING AND POWER V	
	BILL Nº 4 - LIGHTING AND POWER VI	
	BILL Nº 4 - LIGHTING AND POWER VII	
	BILL Nº 4 - LIGHTING AND POWER VIII	
	BILL Nº 5 - MISCELLANEOUS I	
	BILL Nº 5 - MISCELLANEOUS II	
	BILL Nº 6 - LIGHTNING PROTECTION SYSTEM	
	BILL Nº 7 - EARTHING SYSTEM	
	TOTAL TENDER AMOUNT EXCLUDING VAT CARRIED FORWARD TO BOQ SUMMARY PAGE	

ITEM	DESCRIPTION	UNIT	QTY	RATE	TENDER AMOUNT
	<b>BILL N° 1 - PRELIMINARY AND GENERAL</b>				
1	<b>PRELIMINARY AND GENERAL</b> A Preliminary and General item is provided to cover the Contractor's charges for compliance with the Conditions of Contract and this Specification, including the provision, maintenance and removal of his site establishment, etc.				
1.1	<b>FIXED CHARGES</b>				
1.1.1	Site Establishment	Sum	1		
1.1.2	Removal of Site Establishment	Sum	1		
1.2	<b>VALUE RELATED ITEMS</b>				
1.2.1	Provision of Sureties	Sum	1		
1.2.2	Insurances	Sum	1		
1.2.3	Third Party Insurance	Sum	1		
1.2.4	Guarantee of the Works	Sum	1		
1.2.5	All OHSA Requirements including safety equipment and clothing	Sum	1		
1.2.6	All HIV / AIDS Specification Requirements	Sum	1		
1.3	<b>TIME-RELATED ITEMS</b>				
1.3.1	Contractual Requirements	Sum	1		
1.3.2	Operation and Maintenance of Site Establishment	Sum	1		
1.3.3	Supervision for the Duration of Contract	Sum	1		
1.3.4	Other Time-Related Obligations	Sum	1		
<b>TOTAL FOR BILL N° 1 - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 2 - LV DISTRIBUTION BOARDS I	UNIT	QTY	RATE	TENDER AMOUNT
2.1	<b>DISTRIBUTION BOARDS</b> 'Supply and install distribution board, including everything necessary as per the Distribution Board Single Line Diagrams. The installation shall include the installation, connection, earthing and conduit terminations.				
2.1.1	DB-MAIN as per single line diagram				
2.1.1.1	Supply	Nº	1		
2.1.1.2	Installation	Nº	1		
2.1.2	DB-A as per single line diagram				
2.1.2.1	Supply	Nº	1		
2.1.2.2	Installation	Nº	1		
2.1.3	DB-A1 as per single line diagram				
2.1.3.1	Supply	Nº	1		
2.1.3.2	Installation	Nº	1		
2.1.4	DB-B as per single line diagram				
2.1.4.1	Supply	Nº	1		
2.1.4.2	Installation	Nº	1		
2.1.5	DB-C as per single line diagram				
2.1.5.1	Supply	Nº	1		
2.1.5.2	Installation	Nº	1		
2.1.6	DB-D as per single line diagram				
2.1.6.1	Supply	Nº	1		
2.1.6.2	Installation	Nº	1		
2.1.7	DB-E as per single line diagram				
2.1.7.1	Supply	Nº	1		
2.1.7.2	Installation	Nº	1		
2.1.8	DB-F as per single line diagram				
2.1.8.1	Supply	Nº	1		
2.1.8.2	Installation	Nº	1		
2.1.9	DB-G as per single line diagram				
2.1.9.1	Supply	Nº	1		
2.1.9.2	Installation	Nº	1		
2.1.10	DB-P as per single line diagram				
2.1.10.1	Supply	Nº	1		
2.1.10.2	Installation	Nº	1		
2.1.11	DB-S as per single line diagram				
2.1.11.1	Supply	Nº	1		
2.1.11.2	Installation	Nº	1		
<b>TOTAL FOR LV DISTRIBUTION BOARDS I - CARRIED FORWARD TO SUMMARY</b>					



	BILL N° 2 - LV DISTRIBUTION BOARDS II	UNIT	QTY	RATE	TENDER AMOUNT
2.1.12	DB-T as per single line diagram				
2.1.12.1	Supply	Nº	1		
2.1.12.2	Installation	Nº	1		
2.2	<b>CONSUMER EARTH DISTRIBUTION BOARDS</b> 'Rates to include for the supply, delivery and installation of distribution boards inclusive of all item's as detailed in the Installation Details.				
2.2.1	Accessible Earth DB - Surface 16 Way Distribution Board with doors and 200 x 26 x 6mm copper earth bar as specified in the installation details.				
2.2.1.1	Supply	Nº	1		
2.2.1.2	Installation	Nº	1		
2.2.2	Accessible Earth Bar - 200 x 26 x 6mm copper earth bar mounted in the Ceiling void on suitable insulators.				
2.2.2.1	Supply	Nº	8		
2.2.2.2	Installation	Nº	8		
2.3	<b>LOW VOLTAGE 3CR12 KIOSKS</b> Rates to include for the supply, delivery and installation of kiosks inclusive of all item's as detailed in the single line diagrams. Kiosk to be built in accordance with the Installation Details.				
2.3.1	KIOSK MUNIC as per single line diagram				
2.3.1.1	Supply	Nº	1		
2.3.1.2	Installation	Nº	1		
2.4	<b>LOW VOLTAGE SWITCHGEAR</b> Rates to include for the supply, delivery and installation of switchgear into distribution boards including 400mm PVC copper jumpers to match switchgear size.				
2.4.1	60A SP+N 5kA MCB (Curve 2)				
2.4.1.1	Supply	Nº	1		
2.4.1.2	Installation	Nº	1		
2.4.2	20A 1P 5kA MCB (Curve 2)				
2.4.2.1	Supply	Nº	3		
2.4.2.2	Installation	Nº	3		
2.4.3	10A 1P 5kA MCB (Curve 2)				
2.4.3.1	Supply	Nº	3		
2.4.3.2	Installation	Nº	3		
2.4.4	30mA, single phase earth leakage 60A isolator type 5kA.				
2.4.4.1	Supply	Nº	1		
2.4.4.2	Installation	Nº	1		
<b>TOTAL FOR LV DISTRIBUTION BOARDS II - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 3 - LV CABLES & RETICULATION I	UNIT	QTY	RATE	TENDER AMOUNT
3.1	<b>LV CABLES</b> 1000/600 volt PVC/PVC/SWA/PVC copper cables. Rates to include for the supply, delivery and installation into cable sleeves and/or trenches excluding excavations and				
3.1.1	95mm² 4c Cable				
3.1.1.1	Supply	m	50		
3.1.1.2	Installation	m	50		
3.1.2	70mm² 4c Cable				
3.1.2.1	Supply	m	70		
3.1.2.2	Installation	m	70		
3.1.3	10mm² 4c Cable				
3.1.3.1	Supply	m	85		
3.1.3.2	Installation	m	85		
3.1.4	6mm² 4c Cable				
3.1.4.1	Supply	m	25		
3.1.4.2	Installation	m	25		
3.1.5	2,5mm² 4c Cable				
3.1.5.1	Supply	m	70		
3.1.5.2	Installation	m	70		
3.1.6	16mm² 3c Cable				
3.1.6.1	Supply	m	134		
3.1.6.2	Installation	m	134		
3.1.7	10mm² 3c Cable				
3.1.7.1	Supply	m	56		
3.1.7.2	Installation	m	56		
3.1.8	6mm² 3c Cable				
3.1.8.1	Supply	m	53		
3.1.8.2	Installation	m	53		
3.1.9	4mm² 3c Cable				
3.1.9.1	Supply	m	305		
3.1.9.2	Installation	m	305		
3.1.10	2,5mm² 3c Cable				
3.1.10.1	Supply	m	80		
3.1.10.2	Installation	m	80		
3.1.11	1,5mm² 12c Cable				
3.1.11.1	Supply	m	12		
3.1.11.2	Installation	m	12		
TOTAL FOR LV CABLES & RETICULATION I - CARRIED FORWARD TO SUMMARY					

	BILL N° 3 - LV CABLES & RETICULATION II	UNIT	QTY	RATE	TENDER AMOUNT
3.2	<b>BARE COPPER EARTH WIRES</b> Rates to include for the supply, delivery, termination and installation into cable sleeves and/or trenches excluding excavations and				
3.2.1	70mm² BCE				
3.2.1.1	Supply	m	50		
3.2.1.2	Installation	m	50		
3.2.2	50mm² BCE				
3.2.2.1	Supply	m	70		
3.2.2.2	Installation	m	70		
3.2.3	6mm² BCE				
3.2.3.1	Supply	m	85		
3.2.3.2	Installation	m	85		
3.2.4	4mm² BCE				
3.2.4.1	Supply	m	25		
3.2.4.2	Installation	m	25		
3.2.5	2,5mm² BCE				
3.2.5.1	Supply	m	127		
3.2.5.2	Installation	m	127		
3.3	<b>CABLE TERMINATIONS</b> For PVC/PVC/SWA/PVC cables, shall include supply and fitting of the cable gland, neoprene shroud, making-off the cable, lugs, and fitting the gland to the board gland plate, switchgear or appliance and final connection of cable tails into board				
3.3.1	50 - 120mm² 4c Cable				
3.3.1.1	Supply	No	8		
3.3.1.2	Installation	No	8		
3.3.2	2,5 - 10mm² 4c Cable				
3.3.2.1	Supply	No	14		
3.3.2.2	Installation	No	14		
3.3.3	16 - 35mm² 3c Cable				
3.3.3.1	Supply	No	10		
3.3.3.2	Installation	No	10		
3.3.4	2,5 - 10mm² 3c Cable				
3.3.4.1	Supply	No	46		
3.3.4.2	Installation	No	46		
3.4	<b>CABLE JOINT KITS</b> Complete joint kit for PVC/SWA/PVC + ECC cables, shall include supply and and installation				
3.4.1	6 - 16mm² 4c Cable				
3.4.1.1	Supply	No	2		
3.4.1.2	Installation	No	2		
TOTAL FOR LV CABLES & RETICULATION II - CARRIED FORWARD TO SUMMARY					

	BILL N° 3 - LV CABLES & RETICULATION III	UNIT	QTY	RATE	TENDER AMOUNT
3.4.2	10 - 16mm² 3c Cable				
3.4.2.1	Supply	No	2		
3.4.2.2	Installation	No	2		
3.5	<b>CABLE MARKER TAPE (320mm Wide)</b> Supply, deliver and install PVC Cable warning tape laid 300mm above L.V. cables as specified				
3.5.1	Supply	m	400		
3.5.2	Installation	m	400		
3.6	<b>CONCRETE CABLE ROUTE MARKERS</b> Supply, deliver and install markers with aluminium directional plates showing directions of supply cables				
3.6.1	Supply	m	4		
3.6.2	Installation	m	4		
3.7	<b>EXCAVATION AND BACKFILLING</b> Excavate, backfill and compact in all materials including disposal of unsuitable/surplus material. <b>Note this is measured in cubic meters.</b>				
3.7.1	Soft and pickable (all materials) (1 cum = 4 Linear Meter)	C.U.M.	130.0		
3.7.2	Hard material (Provisional)	C.U.M.	10		
3.7.3	Rock (Compressor work Provisional)	C.U.M.	10		
3.7.4	Bedding Material (Provisional) Importation of bedding material as directed by the Engineer.	m³	20		
3.8	<b>CABLE SLEEVES AND SLOW BENDS</b> Supply, deliver and install cable sleeves and slow bends as specified.				
3.8.1	110mm Ø uPVC cable sleeves				
3.8.1.1	Supply	m	42		
3.8.1.2	Install	m	42		
3.8.2	50mm Ø uPVC cable sleeves				
3.8.2.1	Supply	m	170		
3.8.2.2	Install	m	170		
3.8.3	50mm Ø Galvanised cable sleeves				
3.8.3.1	Supply	m	18		
3.8.3.2	Install	m	18		
3.8.4	32mm Ø Galvanised				
3.8.4.1	Supply	m	18		
3.8.4.2	Install	m	18		
3.8.5	110mm Ø PVC Slow Bends				
3.8.5.1	Supply	m	6		
3.8.5.2	Install	m	6		
3.8.6	50mm Ø PVC Slow Bends				
3.8.6.1	Supply	m	12		
3.8.6.2	Install	m	12		
<b>TOTAL FOR LV CABLES &amp; RETICULATION III - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 4 - LIGHTING & POWER I	UNIT	QTY	RATE	TENDER AMOUNT
4	<b>LIGHTING &amp; POWER</b>				
4.1	<b>PVC CONDUIT</b> PVC conduit including all accessories such as bends, elbows and saddles. Making good of chasing by others.				
4.1.1	20mm ø PVC conduit cast into concrete / chased into brickwork				
4.1.1.1	Supply	m	600		
4.1.1.2	Installation	m	600		
4.1.2	20mm ø PVC conduit fixed to timber /steel/concrete roof structure				
4.1.2.1	Supply	m	300		
4.1.2.2	Installation	m	300		
4.1.3	25mm ø PVC conduit fixed to timber /steel /concrete roof structure, including 1mm diameter galvanised drawwire				
4.1.3.1	Supply	m	90		
4.1.3.2	Installation	m	90		
4.1.4	25mm ø PVC conduit fixed to timber /steel /concrete roof structure, including 1mm diameter galvanised drawwire				
4.1.4.1	Supply	m	400		
4.1.4.2	Installation	m	400		
4.1.5	20mm ø flexible tubing (Kopex), including 1mm diameter galvanised drawwire				
4.1.5.1	Supply	m	400		
4.1.5.2	Installation	m	400		
4.2	<b>CONDUIT BOXES</b> Supply, deliver, accept, store and fix the following conduit boxes, complete with covers and screws. (Note these are not for conduit draw boxes or for SSO and Light Switch boxes)				
4.2.1	20mm round PVC conduit box				
4.2.1.1	Supply	No	50		
4.2.1.2	Installation	No	50		
4.2.2	25mm round PVC conduit box				
4.2.2.1	Supply	No	50		
4.2.2.2	Installation	No	30		
4.2.3	100 x 100 x 50mm galvanised box and blank cover				
4.2.3.1	Supply	No	60		
4.2.3.2	Installation	No	60		
4.2.4	100 x 50 x 50mm galvanised box and blank cover				
4.2.4.1	Supply	No	30		
4.2.4.2	Installation	No	30		
<b>TOTAL FOR LIGHTING &amp; POWER I - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 3 - LIGHTING & POWER II	UNIT	QTY	RATE	TENDER AMOUNT
4.3	<b>GALVANISED CONDUIT</b> Galvaniised conduit including all accessories such as bends, elbows and saddles. Making good of chasing by others.				
4.3.1	20mm ø Galvanised conduit fixed to timber/steel/concrete roof structure				
4.3.1.1	Supply	m	1,500		
4.3.1.2	Installation	m	1,500		
4.3.2	20mm round Galvanised conduit box (1 to 4 Way).				
4.3.2.1	Supply	No	250		
4.3.2.2	Installation	No	250		
4.4	<b>TRUNKING, DUCTING AND WIREWAYS</b> Supply, deliver, store, erect and fix galvanised cable and wireways including all fixing, suspension hangers, brackets and threaded rods. Cable and wireways to be fixed to walls and suspended from steel-wood trusses / concrete ceilings. Galvanised channel rate shall be inclusive of end caps, bends, tee pieces and crossover.				
4.4.1	P8000 Galvanised channel and galvanised cover strip				
4.4.1.1	Supply	m	180		
4.4.1.2	Installation	m	180		
4.4.2	P8000 Galvanised channel T-Piece				
4.4.2.1	Supply	No	6		
4.4.2.2	Installation	No	6		
4.4.3	P8000 Galvanised channel Elbow				
4.4.3.1	Supply	m	6		
4.4.3.2	Installation	m	6		
4.4.4	P2000 Galvanised channel and galvanised cover strip				
4.4.4.1	Supply	No	12		
4.4.4.2	Installation	No	12		
4.4.5	P2000 Galvanised channel T-Piece				
4.4.5.1	Supply	No	2		
4.4.5.2	Installation	No	2		
TOTAL FOR LIGHTING & POWER II - CARRIED FORWARD TO SUMMARY					

	<b>BILL N° 3 - LIGHTING &amp; POWER III</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
4.4.6	P2000 Galvanised Elbow				
4.4.6.1	Supply	No	4		
4.4.6.2	Installation	No	4		
4.4.7	100mm wide Galvanised Medium Duty - Welded Wire Mesh				
4.4.7.1	Supply	m	90		
4.4.7.2	Installation	m	90		
4.4.8	100mm wide 90° Horizontal Bend				
4.4.8.1	Supply	No	6		
4.4.8.2	Installation	No	6		
4.4.9	100mm wide Tee Piece				
4.4.9.1	Supply	m	10		
4.4.9.2	Installation	m	10		
4.4.10	50mm wide Galvanised Medium Duty - Welded Wire Mesh				
4.4.10.1	Supply	m	150		
4.4.10.2	Installation	m	150		
4.4.11	50mm wide 90° Horizontal Bend				
4.4.11.1	Supply	No	6		
4.4.11.2	Installation	No	6		
4.4.12	50mm wide Tee Piece				
4.4.12.1	Supply	No	4		
4.4.12.2	Installation	No	4		
4.4.13	YT/2 25mm x 16mm compact PVC trunking and cover				
4.4.13.1	Supply	m	30		
4.4.13.2	Installation	m	30		
<b>TOTAL FOR LIGHTING &amp; POWER III - CARRIED FORWARD TO SUMMARY</b>					

	<b>BILL N° 3 - LIGHTING &amp; POWER IV</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
4.5	<b>POWER SKIRTING</b> Supply, deliver, store and fix power skirting complete with covers and everything necessary.				
4.5.1	165 x 55mm Metal two compartment power skirting with powder coated finish, fixed to wall, complete including internal partition, covers (colour grey)				
4.5.1.1	Supply	m	120		
4.5.1.2	Installation	m	120		
4.5.2	Power Skirting Internal angle				
4.5.2.1	Supply	No	10		
4.5.2.2	Installation	No	10		
4.5.3	Power Skirting End Cap				
4.5.3.1	Supply	No	22		
4.5.3.2	Installation	No	22		
4.6	<b>CONDUCTORS (COPPER)</b> PVC 600/1000V insulated copper conductors drawn into Conduits and Wireways				
4.6.1	1.5 mm² PVC insulated				
4.6.1.1	Supply	m	4,000		
4.6.1.2	Install	m	4,000		
4.6.2	2.5 mm² PVC insulated				
4.6.2.1	Supply	m	5,000		
4.6.2.2	Install	m	5,000		
4.6.3	4.0 mm² PVC insulated				
4.6.3.1	Supply	m	30		
4.6.3.2	Install	m	30		
4.6.4	1.5mm² PVC insulated Twin and Earth				
4.6.4.1	Supply	m	200		
4.6.4.2	Install	m	200		
4.6.5	2.5mm² PVC insulated Twin and Earth				
4.6.5.1	Supply	m	100		
4.6.5.2	Install	m	100		
<b>TOTAL FOR LIGHTING &amp; POWER IV - CARRIED FORWARD TO SUMMARY</b>					



	<b>BILL N° 3 - LIGHTING &amp; POWER V</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
4.7	<b>SWITCHES</b> Supply, deliver, accept, store, fix, connect and commission the following switches, complete with 100mm x 50mm galvanised box, PVC cover, metal screws and LABELING as specified.				
4.7.1	1 lever, 1 way, flush mounted switch complete with galvanised box and metal cover (16 Amp)				
4.7.1.1	Supply	No	44		
4.7.1.2	Installation	No	44		
4.7.2	2 lever, 1 way, flush mounted switch complete with galvanised box and metal cover (16 Amp)				
4.7.2.1	Supply	No	12		
4.7.2.2	Installation	No	12		
4.7.3	3 lever, 1 way, flush mounted switch complete with galvanised box and metal cover (16 Amp)				
4.7.3.1	Supply	No	3		
4.7.3.2	Installation	No	1		
4.7.4	1 lever, 1 way Rotary Weather Proof Switch (16 Amp)				
4.7.4.1	Supply	No	2		
4.7.4.2	Installation	No	2		
4.7.5	1 lever, 2 way, flush mounted switch complete with galvanised box and metal metal cover (16 Amp)				
4.7.5.1	Supply	No	2		
4.7.5.2	Installation	No	2		
4.7.6	16 Amp, 1 lever, 1 way bell press flush mounted switch complete with galvanised box and metal metal cover				
4.7.6.1	Supply	No	1		
4.7.6.2	Installation	No	1		
4.8	<b>SOCKET OUTLETS</b> Supply, deliver, accept, store, fix, connect and commission the following socket outlets, complete with 100mmx100mmx50mm galvanised box where required, metal covers, metal screws and LABELING as specified				
4.8.1	Surface mounted combination switch socket outlet (1 x 16A SANS 164-1 & 1 x SANS 164-2), complete with galvanised box and cover. (Metal Cover)				
4.8.1.1	Supply	No	28		
4.8.1.2	Installation	No	28		
4.8.2	Flush mounted double switched socket outlet complete with galvanised box and cover (16 Amp) (Metal Cover)				
4.8.2.1	Supply	No	4		
4.8.2.2	Installation	No	4		
4.8.3	Single switched socket outlet for power skirting complete with cradle and cover (16 Amp)				
4.8.3.1	Supply	No	45		
4.8.3.2	Installation	No	45		
4.8.4	SANS 164-2 socket outlet for Power Skirting complete with cradle and cover (16 Amp) - Red				
4.8.4.1	Supply	No	18		
4.8.4.2	Installation	No	18		
<b>TOTAL FOR LIGHTING &amp; POWER V - CARRIED FORWARD TO SUMMARY</b>					

	<b>BILL N° 3 - LIGHTING &amp; POWER VI</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
4.8.5	Single Dedicated switched socket outlet for power skirting complete with cradle and cover (16 Amp) - Red				
4.8.5.1	Supply	No	60		
4.8.5.2	Installation	No	60		
4.8.6	Flush mounted double Dedicated switched socket outlet complete with galvanised box and cover (16 Amp) (Metal Cover) - Red				
4.8.6.1	Supply	No	4		
4.8.6.2	Installation	No	4		
4.8.7	Single UPS switched socket outlet for power skirting complete with cradle and cover (16 Amp) - Blue				
4.8.7.1	Supply	No	29		
4.8.7.2	Installation	No	29		
4.8.8	Flush mounted double UPS switched socket outlet complete with galvanised box and cover (16 Amp) (Metal Cover) - Blue				
4.8.8.1	Supply	No	18		
4.8.8.2	Installation	No	18		
4.8.9	5A Unswitched socket outlet complete with round box				
4.8.9.1	Supply	No	140		
4.8.9.2	Installation	No	140		
4.8.10	RJ45 Connector with cradle / cover for power skirting (Including termination)				
4.8.10.1	Supply	No	20		
4.8.10.2	Installation	No	20		
4.9	<b>ISOLATORS</b> Supply, deliver, accept, store, fix, connect and commission the following isolators, complete with metal/PVC enclosures and metal screws and LABELING as specified				
4.9.1	20 Amp double pole isolator				
4.9.1.1	Supply	No	31		
4.9.1.2	Installation	No	31		
4.9.2	20 Amp double pole surface mounted weather proof isolator complete - IP 67. Isolator inside a weather proof box WILL NOT be accepted.				
4.9.2.1	Supply	No	11		
4.9.2.2	Installation	No	11		
4.9.3	30 Amp double pole surface mounted weather proof isolator complete - IP 67. Isolator inside a weather proof box WILL NOT be accepted.				
4.9.3.1	Supply	No	5		
4.9.3.2	Installation	No	5		
4.9.4	30 Amp triple pole surface mounted weather proof isolator complete - IP 67. Isolator inside a weather proof box WILL NOT be accepted.				
4.9.4.1	Supply	No	3		
4.9.4.2	Installation	No	3		
<b>TOTAL FOR LIGHTING &amp; POWER VI - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 3 - LIGHTING & POWER VII	UNIT	QTY	RATE	TENDER AMOUNT
4.10	<b>LUMINAIRES</b> The following luminaires are to be supplied, delivered, accepted and stored, complete with lamps <b>AS SPECIFIED</b> in the Detailed Specification They are to be erected, fixed, connected and commissioned, including scaffold costs and any additional supports which may be required. Luminaires may not be suspended by PVC boxes.				
4.10.1	Type A				
4.10.1.1	Supply	No	24		
4.10.1.2	Installation	No	24		
4.10.2	Type AE				
4.10.2.1	Supply	No	6		
4.10.2.2	Installation	No	6		
4.10.3	Type B				
4.10.3.1	Supply	No	8		
4.10.3.2	Installation	No	8		
4.10.4	Type C				
4.10.4.1	Supply	No	36		
4.10.4.2	Installation	No	36		
4.10.5	Type D				
4.10.5.1	Supply	No	54		
4.10.5.2	Installation	No	54		
4.10.6	Type EX				
4.10.6.1	Supply	No	13		
4.10.6.2	Installation	No	13		
4.10.7	Type F				
4.10.7.1	Supply	No	57		
4.10.7.2	Installation	No	57		
4.10.8	Type G				
4.10.8.1	Supply	No	3		
4.10.8.2	Installation	No	3		
4.10.9	Type H				
4.10.9.1	Supply	No	2		
4.10.9.2	Installation	No	2		
4.10.10	Type I				
4.10.10.1	Supply	No	6		
4.10.10.2	Installation	No	6		
TOTAL FOR LIGHTING & POWER VII - CARRIED FORWARD TO SUMMARY					

	<b>BILL N° 3 - LIGHTING &amp; POWER VIII</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
4.10.11	Type J				
4.10.11.1	Supply	No	2		
4.10.11.2	Installation	No	2		
4.10.12	Type K				
4.10.12.1	Supply	No	2		
4.10.12.2	Installation	No	2		
4.10.13	Type L				
4.10.13.1	Supply	No	27		
4.10.13.2	Installation	No	27		
4.10.14	Type M				
4.10.14.1	Supply	No	14		
4.10.14.2	Installation	No	14		
4.10.15	Type MP – Glass Fibre reinforced polyester (GRP) Pole				
4.10.15.1	Supply	No	14		
4.10.15.2	Installation including excavation and compaction	No	14		
4.10.16	Type V				
4.10.16.1	Supply	No	20		
4.10.16.2	Installation	No	20		
4.10.17	Type S				
4.10.17.1	Supply	No	1		
4.10.17.2	Installation	No	1		
4.10.18	Type UV				
4.10.18.1	Supply	No	5		
4.10.18.2	Installation	No	5		
4.11	<b>PHOTO ELECTRIC CELL</b> Photo electric cell complete with Dummy bulkhead				
4.11.1	Supply	No	8		
4.11.2	Installation	No	8		
<b>TOTAL FOR LIGHTING &amp; POWER VIII - CARRIED FORWARD TO SUMMARY</b>					

	<b>BILL N° 5 - MISCELLANEOUS I</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
5.1	<b>UNINTERRUPTABLE POWER SUPPLY</b> Supply, installation and commissioning of UPS and separate battery enclosures including all wiring and connections, AS SPECIFIED in the Detailed Specification				
5.1.1	12kVA UPS - 1P/1P True on-line double conversion, galvanic isolation transformer UPS as specified				
5.1.1.1	Supply	Item	1		
5.1.1.2	Installation	Item	1		
5.1.2	Battery Enclosure complete with 16 x 12V100AH GEL batteries				
5.1.2.1	Supply	Item	2		
5.1.2.2	Installation	Item	2		
5.2	<b>AUDIBLE ALARM</b> Supply and install Audible buzzer alarm at strong and record rooms. Alarm to be switched from bell press inside safe room.				
5.2.1	Supply	m	1		
5.2.2	Installation	m	1		
5.3	<b>OCCUPANCY SENSORS</b> Supply, deliver, accept, store, fix, connect and commission occupancy sensors as specified for the control of lights.				
5.3.1	Supply	No	22		
5.3.2	Installation	No	22		
5.4	<b>HAND DRYERS</b> Supply and install 1500W, 220-240V, 50Hz Wall mounted automatic stainless steel hand dryer suitable for bathroom installation (SANS approved)				
5.4.1	Supply	No	4		
5.4.2	Installation	No	4		
5.5	<b>ELECTRICAL SUPPLY CO ORDINATION</b>				
5.5.1	Contractor to allow for the coordination with the municipality to upgrade the supply to 150kVA, including relocation of an overhead line wooden pole blocking the Magistrate new entrance (Provisional Sum to pay the municipality is allowed under main Contract)	Sum	1		
5.6	<b>AS INSTALLED DRAWINGS</b>				
5.6.1	Allow for the marking up of prints for the production of "as installed" records by the Engineer.	Sum	1		
5.7	<b>OPERATION AND MAINTENANCE MANUALS</b>				
5.7.1	Allow for the submission of 4 sets of Operation and Maintenance manuals of all equipment installed (Including Basic maintenance and list of replacement equipment for ordering purposes)	Sum	1		
5.8	<b>TRAINING</b>				
5.8.1	Allow for training (Electrical and UPS installations.)	Sum	1		
<b>TOTAL FOR MISCELLANEOUS I - CARRIED FORWARD TO SUMMARY</b>					

	<b>BILL N° 5 - MISCELLANEOUS II</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>TENDER AMOUNT</b>
5.9	<b>CERTIFICATES OF COMPLIANCE</b>				
5.9.1	Allow for the testing of the electrical installation carried out and issuing of Certificates of Compliance for Phase 1 of construction. COC to be issued before Phase 1 can be occupied.	Sum	1		
5.9.2	Allow for the testing of the electrical installation carried out and issuing of Certificates of Compliance for Phase 2 of construction. COC to be issued before Phase 2 can be occupied.	Sum	1		
5.9.3	Allow for the testing of the electrical installation carried out and issuing of Certificates of Compliance for Phase 3 of construction. COC to be issued before Phase 3 can be occupied.	Sum	1		
5.9.4	Allow for the testing of the electrical installation carried out and issuing of Certificates of Compliance for Phase 4 of construction. COC to be issued before Phase 4 can be	Sum	1		
5.9.5	Allow for the Final testing of the complete electrical installation carried out and issuing of Final Certificates of Compliance (All 4 phases) for Practical Completion.	Sum	1		
5.10	<b>ATTENDANCE ON OTHER SUB CONTRACTORS</b>				
5.10.1	Allowance for the attendance and co-ordination of the HVAC, Generator, CCTV, Intercom and Access control installations to be carried out by other Specialist Sub Contractors. This would include coordinating of conduits and wireways, power supply requirements and coordination of there services with the electrical services, including coordination of drawings (ceiling and wall layouts). Specialist sub contractor requirements are shown on the tender drawings.	Sum	1		
5.11	<b>DEMOLITIONS</b> Demolition work to be undertaken in 4 phases of construction	Sum	1		
5.11.1	Isolate and make safe the existing electrical intallation to allow for refurbishment in four phases.	Sum	1		
5.11.2	Removal and and storage of existing lights as directed by the engineer. Material to remain the property of the Department of Public Works / Justice.	Sum	1		
5.11.3	Removal and and storage of existing plugs and isolators (including wiring for possible re-use) as directed by the engineer. Material to remain the property of the Department of Public Works / Justice.	Sum	1		
5.11.4	Removal and and storage of existing conduits (including wiring for possible re-use) as directed by the engineer. Material to remain the property of the Department of Public Works / Justice.	Sum	1		
5.11.5	Removal and and storage of existing DB's with switchgear (for possible re-use) as directed by the engineer. Material to remain the property of the Department of Public Works / Justice.	Sum	1		
5.11.6	Removal and and storage of existing LV cable within buildings (for possible re-use) as directed by the engineer. Material to remain the property of the Department of Public Works / Justice.	Sum	1		
5.12	<b>COMMUNICATION DISTRIBUTION BOARDS AND DRAW BOXES</b> Supply, deliver, store and fix distibution boards and drawboxes complete including any chasing of walls - making good will be by others.				
5.12.1	600 x 400mm flush Telephone / Comms board c/w architrave door and soft wooden backing.				
5.12.1.1	Supply	No	1		
5.12.1.2	Installation	No	1		
5.12.2	450 x 450mm flush Telephone / Comms board c/w architrave door and soft wooden backing.				
5.12.2.1	Supply	No	2		
5.12.2.2	Installation	No	2		
<b>TOTAL FOR MISCELLANEOUS II - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 6 - LIGHTNING PROTECTION SYSTEM	UNIT	QTY	RATE	TENDER AMOUNT
6.1	<b>LIGHTNING PROTECTION SYSTEM</b> 1. The Contractor shall price and make allowance for the complete Lightning Protection System to the Installation including the required soil resistivity survey to be carried out on site, the issuing of the final design of the earthing system, the submitting of same for approval, the supply, installation, testing, commissioning, issuing of a SABS approved earthing certificate / test report and the required guarantee of the system for 12 months. 2. The Contractor shall ensure that the general bonding of the buildings electrical installation is carried out to Clause 6.13 of SANS 10147 Bonding Lightning Protection System to Structures. Where applicable all steel roof sheeting to the structure shall be suitably earthed to the special earth systems. 3. Grade "A" type earth electrodes (earth spikes of at least 1,5m in length) shall be driven into the ground where required. The earth electrode shall be installed at least 1m from the building's perimeter and shall clear all aprons and water channels. These earth spikes must be driven into the ground to at least 500mm below the finished ground level. 4. In each instance these earth spikes must be interconnected by means of approved earth spike clamps and 50mm² insulated copper earth conductor to a height of 500mm AGL, where it is joined in a 102 x 102 x 77mm poly carbonate weather proof Inspection Box, by means of a Bi-metal lug to an 8mm round aluminium conductor which through a 25mm GALVANISED conduit exits 200mm below the roof covering where it is terminated and sealed off by means of silicon sealer. <b>ALL ITEMS TO BE PRICED FOR SUPPLY AND INSTALLATION</b>				
6.1.1	LPS specialist contractor to carryout the required earth resistivity tests / surveys on site, <b><u>final design</u></b> for the proposed LPS and <b><u>completion of the LPS Risk Assessment</u></b> . All to be submitted to Engineer for approval.	Sum	1		
6.1.2	1,5m long (16mm Diameter) Cadweld type copper electrodes driven into the ground 500 mm BGL	No	45		
6.1.3	50mm² insulated copper earth conductor from earth electrode to inspection box connection	m	120		
6.1.4	Complete termination arrangement of the 50mm² insulated copper earth conductors to earth electrode.	No	45		
6.1.5	Complete termination arrangement of the 50mm² insulated copper earth conductors to the 8mm round Aluminium conductor including <b><u>bi metal lugs</u></b> .	No	45		
6.1.6	110x70x80 heavy duty polycarbonate inspection box with screw lid.	m	45		
6.1.7	8mm round aluminium conductor from roof termination to inspection box	m	155		
6.1.8	Complete termination of 8mm round aluminium conductor to roof sheeting	No	45		
6.1.9	8mm Round Aluminium conductor fixed to concrete IBR or Corrugated Roof Sheeting at 500mm centres with SABS holder and epoxy glue.	m	200		
6.1.10	Roof Conductor link comprising of 2x stainless bolts and nuts (8x20), 2x bimetal lugs (50x8) and 1m of 8mm roundconductor to link two roofs.	No	6		
6.1.11	Air Termination for Roof (Crows foot type).	M	6		
6.1.12	25mm galvanised conduit fixed to stone wall	m	80		
6.1.13	25mm diameter PVC Conduit built into walls	m	70		
6.1.14	Cutting of existing concrete aprons for installation of earth and making good with concrete fill (500mm Long x 35mm Wide x 150mm Deep)	No	45		
6.1.15	Testing of the completed system and the issue of a SANS prescribed LPS Safety Report / compliance certificate ( <b><u>Signed by the LPS specialist - Including Design portion</u></b> )	Sum	1		
<b>TOTAL FOR LIGHTNING PROTECTION SYSTEM - CARRIED FORWARD TO SUMMARY</b>					

	BILL N° 7 - EARTHING SYSTEM	UNIT	QTY	RATE	TENDER AMOUNT
7.1	Earthing complete system as detailed in the detailed specification including all sundry materials and connections /terminations. Exclude: Excavation and backfilling. <b>ALL ITEMS TO BE PRICED FOR SUPPLY AND INSTALLATION</b>				
7.1.1	Earth rod (1.8m long including clamps and bonds)	No	10		
7.1.2	50mm² BARE COPPER EARTH WIRE	m	35		
7.1.3	Earth resistivity test and earth electrode resistance test for complete earth system, including measurement certificates.	Item	1		
7.1.4	Bond the proposed water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, gutters and rain water pipes shall be bonded.	Item	1		
7.1.5	Complete earthing of Generator set - (4 x 1.8m earth studs and interconnecting 70mm² Bare Copper earth wire) as per the specification.	Item	1		
TOTAL FOR LV RETICULATION I - CARRIED FORWARD TO SUMMARY					





**public works**  
Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**FOR**

**REPAIRS AND ADDITIONS TO  
ELLIOT MAGISTRATE COURT**

**BOOSTER PUMP INSTALLATION**

**SPECIFICATION AND PRICING SCHEDULE**

**PREPARED FOR:**

Coega Development Corporation (Pty) Ltd  
Harraway House, No 12  
Pearce Street  
Berea  
East London  
5241

**PREPARED BY:**

Eye Sizwe consulting Engineers  
16 Allenby Road  
Selborne  
East London  
5213

**NAME OF TENDERER:** \_\_\_\_\_

## PART 4 - BILLS OF QUANTITY



## **SCHEDULE OF QUANTITIES – NOTES TO TENDERERS**

**4.1** THESE BILLS OF QUANTITIES CONTAIN PAGES NUMBERED CONSECUTIVELY IN EACH BILL. BEFORE THE TENDERER SUBMITS HIS TENDER HE SHOULD CHECK THE NUMBER OF PAGES AND IF ANY ARE FOUND TO BE MISSING, DUPLICATED OR INDISTINCT, OR THE BILLS OF QUANTITIES CONTAIN ANY OBVIOUS ERRORS, HE SHOULD APPLY TO THE ENGINEER IMMEDIATELY TO HAVE SAME RECTIFIED OR CLARIFIED AS NO LIABILITY WHATSOEVER WILL BE ADMITTED BY THE ENGINEER IN RESPECT OF ERROR IN THE BID DUE TO THE FOREGOING.

**4.2** THE BILLS OF QUANTITIES FORM PART OF AND MUST BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND DRAWINGS WHICH CONTAIN THE FULL DESCRIPTION OF THE WORKS TO BE CARRIED OUT AND MATERIALS AND EQUIPMENT TO BE USED.

**4.3** TENDERS SHALL BE SUBMITTED FOR INITIAL CONSIDERATION ON THE DECLARATION OF THE TOTAL VALUE OF THE BILL SUMMARY, NON-SCHEDULED BILL ITEM RATES AND EXTRA OVER RATES. TO ENABLE THE ENGINEER TO THOROUGHLY ASSESS THE MERITS OF TENDERS SUBMITTED THE BILLS PRICED IN DETAIL SHALL BE MADE AVAILABLE UPON REQUEST WITHIN 2 DAYS AFTER CLOSING DATE OF TENDERS.

**4.4** THE TOTAL TENDER SUM IN THE FORM OF TENDER OR OTHER SUBSEQUENTLY NEGOTIATED BETWEEN THE ENGINEER AND TENDERER SHALL CONSTITUTE THE CONTRACT SUM OF THE SUCCESSFUL TENDERER. TENDERERS ARE ADVISED TO CHECK THEIR ITEMS EXTENSIONS AND TOTAL ADDITIONS, AS NO CLAIM FOR ARITHMETICAL ERRORS WILL BE CONSIDERED.

**4.5** NO ALTERATION, ERASURE OR ADDITION IS TO BE MADE IN THE TEXT OF THE BILLS OF QUANTITIES. SHOULD ANY ALTERATION, ERASURE OR ADDITION BE MADE, IT WILL NOT BE RECOGNISED AND THE ORIGINAL WORDING OF THE BILLS OF QUANTITIES WILL BE ADHERED TO.

**4.6** THE PRICED BILLS OF QUANTITIES OF THE SUCCESSFUL TENDERER WILL BE CHECKED AND THE ENGINEER RESERVES THE RIGHT TO CALL FOR REASONABLE ADJUSTMENTS TO ANY INDIVIDUAL PRICE AND TO RECTIFY ANY DISCREPANCY WHILST THE TOTAL TENDER PRICE, AS SUBMITTED, REMAINS UNALTERED.

**4.7** THE RESPONSIBILITY FOR THE ACCURACY OF THE QUANTITIES WRITTEN INTO THE BILLS REMAINS WITH THE PARTY WHO PREPARED THE BILLS. THE BIDDER SHALL BE RELIEVED OF THE RESPONSIBILITY OF MEASURING QUANTITIES AT THE TENDER STAGE, EXCEPT FOR PIPING AND ELECTRICS AND SUCH OTHER ITEMS AS MAY BE NOTED WHICH ARE LUMP SUM ITEMS AND ARE TO BE SUBMITTED IN DETAIL WITH THE DETAILED BILL. THE TENDER SUM SUBMITTED SHALL BE IN RESPECT OF THE QUANTITIES SET OUT IN THE BILLS, ALTHOUGH THE TENDERER WILL BE REQUIRED TO MAKE HIS ASSESSMENT OF ITEMS SUCH AS FIXINGS, PIPE SUPPORTS, DUCT SUPPORTS, ETC, AVM PADS, ETC AND SHALL INCLUDE IN THE ITEM PRICES FOR SUCH SMALL INSTALLATION MATERIALS AS ARE REQUIRED FOR THE COMPLETE INSTALLATION IN ACCORDANCE WITH THE SPECIFICATION.

**4.8** THE SUB-CONTRACTOR AND THE EMPLOYER OR HIS AGENT MAY AGREE THAT THE TOTAL BILL OR BILLS INCLUDING ANY VARIATIONS BY WAY OF ADDITIONS THERETO OR DEDUCTIONS THEREFROM, REPRESENTS A FAIR AND ACCURATE QUANTIFICATION OF THE ITEMS SET OUT IN THE BILLS AND THE PARTIES MAY AGREE FINAL PAYMENT ON THAT BASIS. IN THE EVENT OF ANY DISPUTE AS TO THE QUANTITIES, THE DISPUTED ITEMS SHALL BE ADJUSTED WHERE NECESSARY.

**4.9** THE QUANTITIES IN THESE BILLS OF QUANTITIES ARE NOT TO BE USED FOR ORDERING PURPOSES.

**4.10** VARIATIONS IN THE SCOPE AND EXTENT OF THE WORK INCLUDED IN THE BILLS SHALL BE ALLOWED TO MEET THE EMPLOYER'S REQUIREMENTS.

**4.11** UNLESS SEPARATE RATES FOR THE SUPPLY AND INSTALLATION OF ANY ITEM IS SPECIFICALLY CALLED FOR, THE SUPPLY AND INSTALLATION COSTS OF ANY ITEM SHALL BE FULLY INCLUDED IN THE UNIT PRICE.

**4.12** THE RATES INCLUDED FOR NON-SCHEDULED BILL ITEMS SHALL FORM PART OF THE TENDER, AND WILL ONLY BE PAYABLE TO THE SUB-CONTRACTOR IF AND WHEN COVERED BY A VARIATION ORDER.

**4.13 TENDERERS SHALL PRICE THE PRELIMINARIES UNDER ANY OR ALL OF THREE GROUPS, VIZ:**

**4.13.1** Fixed amount

**4.13.2** An amount varied in proportion to the final contract value as compared to the BID price.

**4.13.3** An amount varied in proportion to the final contract period as compared to the originally specified contract period.

**4.13.4** THE ALLOCATION OF PRICES TO THE THREE LISTED ABOVE MUST BE REALISTIC AND THE SUB-CONTRACTOR MAY BE REQUIRED TO JUSTIFY THE ALLOCATION OF THE PRICES. ATTENTION IS PARTICULARLY DRAWN TO THE RIGHT RESERVED IN TERMS OF CLAUSE 6.6 ABOVE.

**4.13.5** ALL PROVISIONAL SUMS SHALL BE EXPENDED AS DIRECTED BY THE ENGINEER AND ANY BALANCE REMAINING SHALL BE DEDUCTED FROM THE TOTAL CONTRACT SUM.

**4.13.6** THE QUANTITIES IN THESE BILLS OF QUANTITIES ARE MEASURED PROVISIONALLY. ALL WORK EXECUTED IN ACCORDANCE WITH THE WORKSHOP DRAWINGS APPROVED BY THE ENGINEER SHALL BE RE-MEASURED AND PRICED AT RATES CONTAINED IN OR BASED ON THE PRICED BILL OF QUANTITIES.

**4.13.7** MONTHLY PROGRESS CLAIMS SHALL BE SUBMITTED ON A DRAWING RE-MEASURE BASIS IN THE BILL OF QUANTITIES FORMAT. PRELIMINARIES, SO CLAIMED SHALL BE PRO-RATA TO THE CONTRACT SUM LESS PRELIMINARIES, CONTINGENCIES, PROVISIONAL SUMS AND CONTRACT PRICE ADJUSTMENT PROVISIONS.

ELLIOT MAGISTRATE COURT: REPAIRS AND RENOVATIONS  
BOOSTER PUMP SPECIFICATION

Item	Description	Unit	Qty	Rate	Amount
	<b><u>Domestic Booster Pump Set. VSD (Package Unit)</u></b>				
1	Pump Set To Spec (Includes Run / Stand-By) c/w S/S manifold (2 - Pump in set) (Supply , Delivery , Installation )	item	Set		
	<b><u>Copper Pipework - (Class - 3)</u></b>				
2	54 Ø	m	10		
	<b><u>Elbows</u></b>				
3	5	item	8		
	<b><u>Flanges</u></b>				
4	54 Ø	item	12		
	<b><u>Isolating Valves - (Brass Type)</u></b>				
5	54 Ø	item	4		
6	22 dia - (Drain Valve)	item	2		
	<b><u>Non Return Valves</u></b>				
7	54 Ø	item	2		
	<b><u>Y' Strainer Flanged</u></b>				
8	54 Ø	item	2		
	<b><u>Sockets</u></b>				
9	22 dia.	item	4		
10	Male Iron to Copper Fitting - 54Ø	item	12		
	<b><u>Gauges - (Fluid Type)</u></b>				
11	Pressure Gauges	item	2		
12	Automatic Air Vent - 28Ø	item	1		
	<b><u>Pipe Supports</u></b>				
13	set	set	1		
	<b><u>Painting of Pipework</u></b>				
14	set	set	1		
	<b><u>Electrics</u></b>				
15	Electrical Cabling + connection (6m)	set	1		
16	<b><u>Control Panel</u></b> : To Spec including circuit breaker for pumpset and low level control signal from tank float switch (See schematic drawing)	set	1		
	<b>Total for Bill No.1</b> carried to Summary Page				

Item	Description	Unit	Qty	Rate	Amount
	<b><u>MISCELLANEOUS ITEMS</u></b>				
1	Shop and As Built Drawings to Spec.	sum	sum		
2	12 Months Maintenance & Guarantee	sum	sum		
3	O & M Manuals to spec.	sum	sum		
4	Transport & P&G's	sum	sum		
5	Commissioining	sum	sum		
6	Staff Training	sum	sum		
<b>Total for Bill No.2 carried to Summary Page</b>					

Item	Description	Amount
	<u>PRICE</u> <u>SUMMARY PAGE</u>	
1	Total Carried Forward For - Bill 1	
2	Total Carried Forward For Bill 2 - MISCELLANEOUS ITEMS	
	TOTAL NETT	
	ADD: 15% Value Added Tax	
	TOTAL ESTIMATED PRICE (INCL VAT)	
	Completed By:	
	Signature: _____	
	Name: _____	
	On behalf of: _____	
	Date:	

PART 5 –  
SCHEMATIC DETAIL DRAWING  
(BOOSTER PUMP SYSTEM)

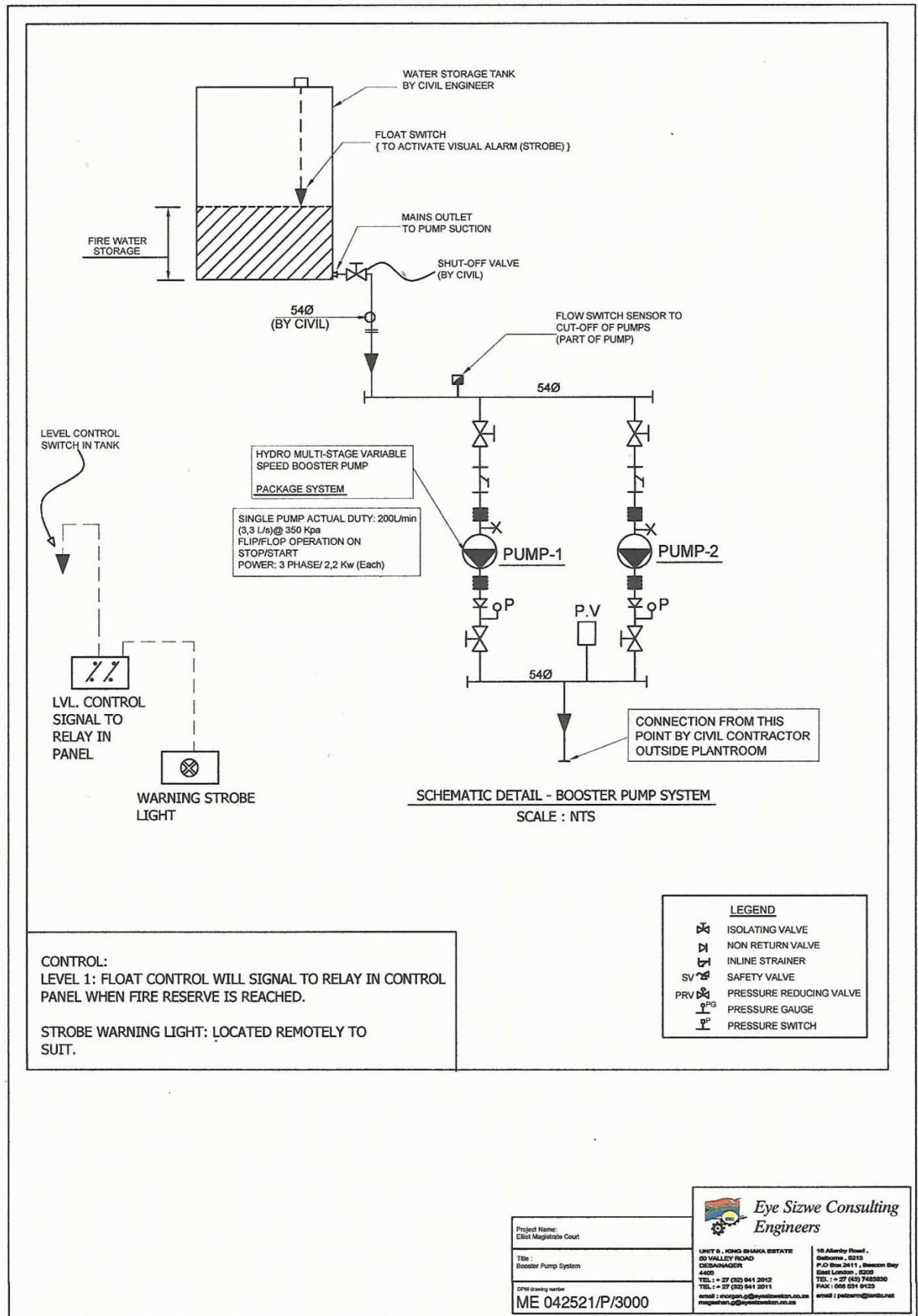


### SCHEDULE OF DRAWINGS

The following drawings are **ON THE NEXT PAGE OF THIS DOCUMENT.**

DRAWING NO.	TITLE
ME 042521/P/3000	Schematic Detail of Booster Pump System

**ELLIOT MAGISTRATE COURT: REPAIRS AND RENOVATIONS**  
**BOOSTER PUMP SPECIFICATION**





**public works**  
Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**FOR**

**REPAIRS AND ADDITIONS TO  
ELLIOT MAGISTRATE COURT**

**FIRE DETECTION INSTALLATION**

**SPECIFICATION AND PRICING SCHEDULE**

**PREPARED FOR:**

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Harraway House, No 12  
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East London  
5241

**PREPARED BY:**

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16 Allenby Road  
Selborne  
East London  
5213

**NAME OF TENDERER:** \_\_\_\_\_

## PART 3 - BILLS OF QUANTITY

**BILLS OF QUANTITY - GENERAL NOTES**

**3.1.1 NOTES TO BIDDERS**

**3.1.2 THESE BILLS OF QUANTITIES CONTAIN PAGES NUMBERED CONSECUTIVELY IN EACH BILL. BEFORE THE BIDDER SUBMITS HIS BID HE SHOULD CHECK THE NUMBER OF PAGES AND IF ANY ARE FOUND TO BE MISSING, DUPLICATED OR INDISTINCT, OR THE BILLS OF QUANTITIES CONTAIN ANY OBVIOUS ERRORS, HE SHOULD APPLY TO THE ENGINEER IMMEDIATELY TO HAVE SAME RECTIFIED OR CLARIFIED AS NO LIABILITY WHATSOEVER WILL BE ADMITTED BY THE ENGINEER IN RESPECT OF ERROR IN THE BID DUE TO THE FOREGOING.**

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- 3.1.14 **MONTHLY PROGRESS CLAIMS SHALL BE SUBMITTED ON A DRAWING RE-MEASURE BASIS IN THE BILL OF QUANTITIES FORMAT. PRELIMINARIES, SO CLAIMED SHALL BE PRO-RATA TO THE CONTRACT SUM LESS PRELIMINARIES, CONTINGENCIES, PROVISIONAL SUMS AND CONTRACT PRICE ADJUSTMENT PROVISIONS.**
- 3.1.15 **CLUSTERS AS REFERRED TO IN THE BILL REPORT MEANS ALL FITTINGS, VALVES, GAUGES, PRV'S, STRAINERS, BALANCING VALVES, UNIONS, ETC, UPSTREAM AND DOWNSTREAM OF THE SPECIFIED EQUIPMENT INCLUDING INSULATION WHERE REQUIRED IN THE PLANTROOM AREA.**

## ELLIOT MAGISTRATE COURT: REPAIRS AND RENOVATIONS

### FIRE DETECTION SPECIFICATION

[illegible]

## ELLIOT MAGISTRATE COURT: REPAIRS AND RENOVATIONS FIRE DETECTION SPECIFICATION

[illegible]



## ELLIOT MAGISTRATE COURT: REPAIRS AND RENOVATIONS

### FIRE DETECTION SPECIFICATION

[illegible]

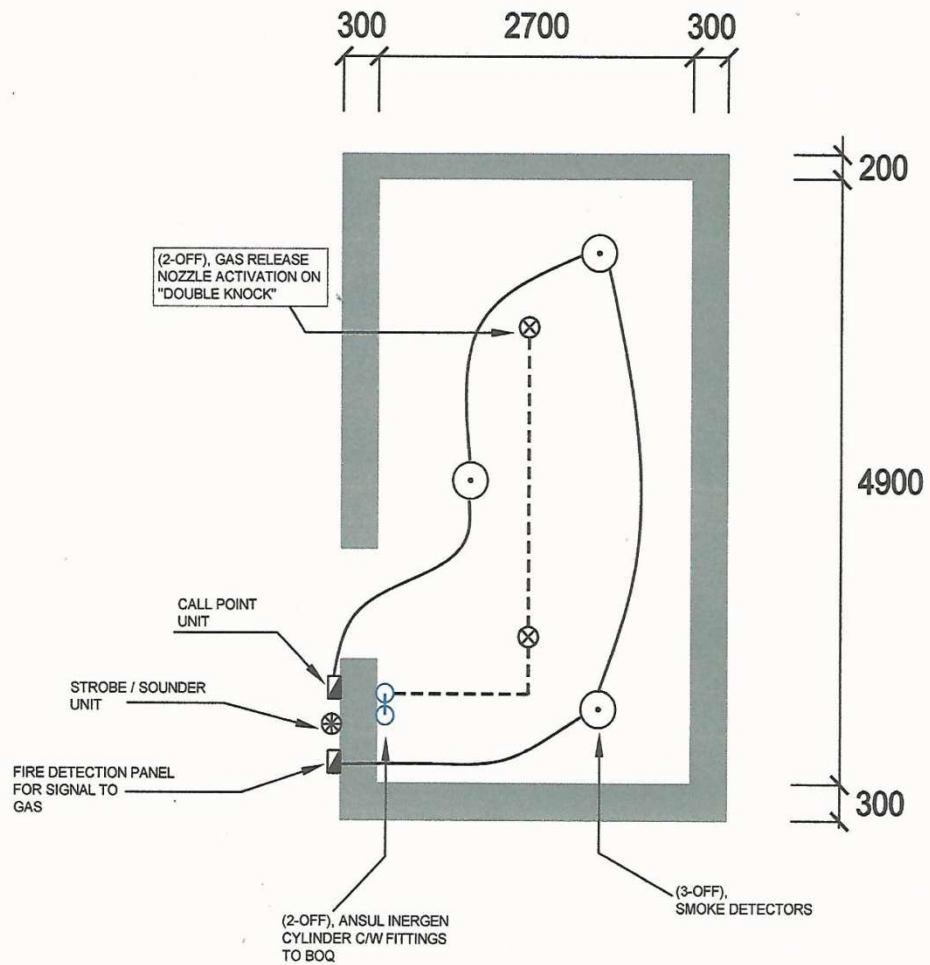
[illegible]

PART 4 –  
DETAIL DRAWING  
(FIRE DETECTION SYSTEM)

### SCHEDULE OF DRAWINGS

The following drawings are **ON THE NEXT PAGE OF THIS DOCUMENT.**

DRAWING NO.	TITLE
ME 042521/FD/4000	Fire Detection and Gas Suppression Layout to Safe & Records Room



PLAN - SAFE & RECORDS ROOM

-SCALE 1:50-

Project Name:  
Elliot Magistrate Court

Title:  
Fire Detection and Gas Suppression Layout to Safe & Records Room

Drawing number

ME 042521/FD/4000



**Eye Sizwe Consulting  
Engineers**

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**public works**  
Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**FOR**

**REPAIRS AND ADDITIONS TO  
ELLIOT MAGISTRATE COURT**

**HVAC INSTALLATION**

**SPECIFICATION AND PRICING SCHEDULE**

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5241

**PREPARED BY:**

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5213

**NAME OF TENDERER:** \_\_\_\_\_

## PART 4 – BILLS OF QUANTITY

**SCHEDULE OF QUANTITIES - GENERAL NOTES**

**4. NOTES TO TENDERERS**

**4.1.1** THESE BILLS OF QUANTITIES CONTAIN PAGES NUMBERED CONSECUTIVELY IN EACH BILL. BEFORE THE TENDERER SUBMITS HIS TENDER HE SHOULD CHECK THE NUMBER OF PAGES AND IF ANY ARE FOUND TO BE MISSING, DUPLICATED OR INDISTINCT, OR THE BILLS OF QUANTITIES CONTAIN ANY OBVIOUS ERRORS, HE SHOULD APPLY TO THE ENGINEER IMMEDIATELY TO HAVE SAME RECTIFIED OR CLARIFIED AS NO LIABILITY WHATSOEVER WILL BE ADMITTED BY THE ENGINEER IN RESPECT OF ERROR IN THE BID DUE TO THE FOREGOING.

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**4.1.14** Fixed amount

**4.1.15** An amount varied in proportion to the final contract value as compared to the BID price.

**4.1.16** An amount varied in proportion to the final contract period as compared to the originally specified contract period.

**4.1.17** THE ALLOCATION OF PRICES TO THE THREE LISTED ABOVE MUST BE REALISTIC AND THE SUB-CONTRACTOR MAY BE REQUIRED TO JUSTIFY THE ALLOCATION OF THE PRICES. ATTENTION IS PARTICULARLY DRAWN TO THE RIGHT RESERVED IN TERMS OF CLAUSE 6.6 ABOVE.

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ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION  
PART A: AIRCONDITIONING AND VENTILATION

Item	Description	Unit	Qty	Rate	Amount
	<b><u>AC SYSTEM - 1 (ADMIN AREAS) (PHASE: 4)</u></b>				
1	Outdoor condenser to spec, Size: ARUM100LTE5 (Inverter HP : 28 Kw Cooling / 24 Kw Heating)	item	1		
	<b><u>COUPLED INDOOR AC UNITS (Refer to Drawing)</u></b>				
2	(AC-1) , Ceiling Cassettes - 18,000 Btu (5,6 Kw)	item	2		
3	(AC-2) , Ceiling Cassettes - 9,000 Btu (2,8 Kw)	item	1		
4	(AC-5) , Ceiling Cassettes - 15,000 Btu (4,5 Kw)	item	1		
5	(AC-6) , Low Static In-Ceiling Ducted AC unit (24,000 Btu) (7,1 Kw)	item	1		
6	Split A/C unit (Inverter) , (AC-3) ceiling cassette - (12,000 Btu) (3,6 Kw)	item	2		
7	Remote A/C control units with speed control	item	8		
8	Electrical work to A/C system	Set			
	<b><u>INSULATED DUCTWORK</u></b>				
9	Size : 1000 x 150	m	4		
10	1000 x 150 x 600 Long C/W Access Panel	item	1		
11	1000 x 150 - SQ Bend	item	1		
12	1000 x 150 Duct with O/A filter + Weater Louvre	item	1		
13	Roof soaker sheet (Detail "X")	item	1		
14	250Ø - Insulated Duct	m	7		
15	200Ø - Insulated Duct	m	9		
16	150Ø - Insulated Duct	m	6		
17	150Ø Spigot x 100mm	item	4		
18	200Ø Spigot x 100mm	item	3		
19	10Ø - Support Rod Hangers - (AC-6)	item	8		
20	Remote Control Switch - (AC-6) hard wired with speed control	item	1		
	<b><u>INSULATED FLEXIBLE DUCT</u></b>				
21	150Ø	m	6		
22	200Ø	m	2		
	<b>Total for Bill No.1 Carried to Summary Page</b>				

**ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION**  
**PART A: AIRCONDITIONING AND VENTILATION**

[illegible]

ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION  
PART A: AIRCONDITIONING AND VENTILATION

Item	Description	Unit	Qty	Rate	Amount
	<b><u>AC SYSTEM - 2 (COURT "A") (PHASE - 4)</u></b>				
1	Outdoor condenser to spec, Size: ARUN140LLS-5 (Inverter HP , 39 Kw Cooling / 39 Kw Heating)	item	1		
	<b><u>COUPLED INDOOR A/C UNITS (REFER TO DRAWING)</u></b>				
2	(AC-7) , Midwall Units - 18,000 Btu (5,6 Kw)	item	5		
3	(AC-8) , Midwall Units - 18,000 Btu (5,6 Kw)	item	1		
4	(AC-9) , Low Static In-Ceiling Ducted A/c Unit - 24,000 Btu (7,1 Kw)	item	1		
5	Remote A/C control unit and wiring electrical work to AC system (Daisy chain hard wired in trunking)	Set			
	<b><u>Insulated Ductwork</u></b>				
6	Size: 1000 x 150	m	4		
7	1000 x 150 x 600 Long c/w access panel	item	1		
8	1000 x 150 - SQ Bend	item	1		
9	1000 x 150 - Duct with O/A filter + Weather Louvre	item	1		
10	Roof soaker sheet - Detail - "X"	item	1		
11	150Ø - Duct	m	4		
12	150Ø - Spigot	item	2		
	<b><u>Insulated Flexible Duct</u></b>				
13	150Ø	item	2		
14	10Ø - Support Rod Hangers - (AC-9)	item	8		
15	Remote Control Switch (AC-9), hard wired with speed control	item	1		
16	(1-Way Blow) , Diffuser : 400 x 400	item	1		
	<b><u>REFRIGERATION PIPING &amp; FITTINGS</u></b> <b><u>Insulated Refrigeration Pipework</u></b>				
17	6Ø	m	20		
18	10Ø	m	30		
19	13Ø	m	27		
	<b>Total for Bill No.3 Carried to Summary Page</b>				

**ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION**  
**PART A: AIRCONDITIONING AND VENTILATION**

Item	Description	Unit	Qty	Rate	Amount
	<b><u>Insulated Refrigeration Pipework</u></b>				
20	15Ø	m	8		
21	28Ø	m	4		
21.1	22Ø	m	21		
	<b><u>Insulated uPVC Drain Pipe</u></b>				
22	40Ø	m	50		
23	20Ø	m	6		
24	Elbows : 40Ø	item	6		
25	Elbows : 20Ø	item	6		
26	Reducer Tees : 40 / 20	item	7		
	<b><u>EGA Tube Trunking</u></b>				
27	Size: 150mm	m	40		
28	Refrigeration Charge	Set	Sum		
	<b><u>'Y' - Branch Fittings</u></b>				
29	Size: ARBLN-01621	item	2		
30	Size: ARBLN-07121	item	1		
31	Size: ARBLN-03321	item	3		
32	Anti-Vibration Pads : 100 x 100 x 25	item	10		
33	Commissioning & Testing	Set	Sum		
<b>Total for Bill No.4 Carried to Summary Page</b>					

**ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION**  
**PART A: AIRCONDITIONING AND VENTILATION**

[illegible]

**ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION**  
**PART A: AIRCONDITIONING AND VENTILATION**

[illegible]

ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION  
PART A: AIRCONDITIONING AND VENTILATION

Item	Description	Unit	Qty	Rate	Amount
1	Ceiling Sweep Fans (CF-1) c/w control - 900Ø	item	12		
2	Ceiling Sweep Fans (CF-2) c/w control - 600Ø	item	2		
	<b><u>Extract Fan Silent Series</u></b>				
3	(EF-1) , 300 L/s - Size : TD 1000/200	item	2		
4	(EF- 2) , 100 L/s - Size : TD 380/125	item	1		
5	(EF- 3) , 250 L/s - Size : TD 800/200	item	2		
6	Remote fan control switch and wiring	item	5		
7	Xpelair Fan , (WX-6) - (EF-4)	item	4		
8	Size: GX-6 - (EF-5)	item	9		
	<b><u>Aluminium Door Grilles</u></b>				
9	Size : 300 x 200 - (DG-1)	item	4		
10	Size : 350 x 350 - (DG-2)	item	4		
11	Size : 250 x 250 - (DG-3)	item	4		
11.1	Size : 400 x 250 - (DG-4)	item	4		
	<b><u>Aluminium Weather Louvre</u></b>				
12	Size : 350 x 350 - (WL-1)	item	2		
13	Size : 250 x 250 - (WL-2)	item	1		
14	Size : 700 x 250 - (WL-3)	item	1		
15	Size : 1000 x 150 - (WL-4)	item	3		
	<b><u>Circular Discharge Grille</u></b>				
16	150Ø - (G-1)	item	2		
17	200Ø - (G-2)	item	2		
18	200 x 200 - "CHUBB" Steel Grille	item	1		
	<b><u>Circular Disc Valves</u></b>				
19	Size : (DV-1) -150Ø	item	4		
20	Size : (DV-2) -150Ø	item	25		
21	Size : (DV-3) - 200Ø	item	2		
22	Return Air Gille - 500 x 250	item	4		
23	Fire Damper - 150Ø	item	1		
24	150Ø - Back Draught Damper	item	1		
	<b>Total for Bill No.7 Carried to Summary Page</b>				

**ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION**  
**PART A: AIRCONDITIONING AND VENTILATION**

[illegible]



**ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION**  
**PART A: AIRCONDITIONING AND VENTILATION**

[illegible]

**ELLIOT MAGISTRATE COURT: AIRCONDITONING AND VENTILATION**  
**PART A: AIRCONDITIONING AND VENTILATION**

Ref	Description	Amount
1	Total Carried Forward From - Bill Page 1	
2	Total Carried Forward From - Bill Page 2	
3	Total Carried Forward From - Bill Page 3	
4	Total Carried Forward From - Bill Page 4	
5	Total Carried Forward From - Bill Page 5	
6	Total Carried Forward From - Bill Page 6	
7	Total Carried Forward From - Bill Page 7	
8	Total Carried Forward From - Bill Page 8	
9	Total Carried Forward From - Bill Page 9	
	TOTAL NETT	
	ADD: 15% Value Added Tax	
	TOTAL PRICE	
Completed By:		
Name of Contractor: _____		
Contract Person: _____		
Contact Detail: _____		
Date: _____		
Signature: _____		

## PART 5 – SCHEDULE OF DRAWINGS

### SCHEDULE OF DRAWINGS

The following drawings are **BOUND OR PLACED INTO THE BACK OF THE DOCUMENT.**

DRAWING NO	TITLE
ME042521/ACV1	AIR-CONDITIONING AND VENTILATION LAYOUT



**public works**  
Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**FOR**

**REPAIRS AND ADDITIONS TO  
ELLIOT MAGISTRATE COURT**

**OHS BOQ**

**PREPARED FOR:**

Coega Development Corporation (Pty) Ltd  
Harraway House, No 12  
Pearce Street  
Berea  
East London  
5241

**PREPARED BY:**

Eye Sizwe consulting Engineers  
16 Allenby Road  
Selborne  
East London  
5213

**NAME OF TENDERER:** \_\_\_\_\_



# BILL OF QUANTITIES FOR HEALTH AND SAFETY ELLIOT MAGISTRATES COURT

	Description	Unit	Qty	Rate	Total
1.	Allow for the necessary Workman's Compensation Fund or FEM contributions for the duration of the project with and including renewals	item	1		
2.	Allow for the preparation and approval of project-specific H&S Plan & File [CR 7(1)(a)]	item	1		
3.	Allow for the implementation and maintenance of project-specific H&S Plan & File. [CR 7]	Put Months	24		
4.	Allow for the appointment of a <b>Full-Time</b> Competent Construction Health & Safety Officer/ <b>CHSM</b> registered with <b>SACPCMP</b> (who has <b>3</b> or more years working experience) to assist in the control of all health and safety related aspects on site as per [CR 8(5)]	Put Months	24		
5.	Provide for appointment of responsible and competent person/s to manage and supervise the works and administer and enforce health and safety on site as per [CR 8(1), (2), & (7)]	Put Months	24		
6.	Allow for provision of telecommunication facilities for the appointed Construction Health & Safety Officer	Put Months	24		
7.	Allow for provision of Basic Emergency Preparedness and Response equipment & at least Level 2 First Aider/s	Put Months	24		
	<b>Provide, supply and maintenance for each worker the following SANS approved personal protective equipment &amp; clothing as per the site-specific risk assessments:</b>				
8.	Hard Hats (High Density polyethylene, & 6-point lining)	No			
9.	Overall/work suit (100% Cotton)	No			
10.	Safety boots/shoes (Steel-Toe)	No			
11.	Gumboots (Steel-Toe)	No			
12.	Safety gloves	No			
13.	Ear Plugs/Muffs	No			
14.	Dust Mask (at least FF2 type)	No			
15.	Respirators	No			
16.	Safety goggles	No			
17.	Personal Fall arrest and rescue equipment with and including lifelines and associated equipment	No			
18.	High visibility reflective vests and/or bibs	No			

19.	Temporary handrails, toe boards other than for access scaffolding	Meters			
20.	SANS approved safety netting (orange color with minimum of 1,2 meters high)	Meters			
21.	Allow for Pre-employment medical examinations	item	1		
22.	Allow for exit medical examinations	item	1		
23.	Mobile toilets and waste removal	No			
24.	First Aid box	No			
25.	Fire Extinguisher Equipment	No			
26.	1200mm surveyor poles for barricading net	No			
27.	Drip trays	No			
28.	Waste bins	No			
29.	Site Signage	No			
30.	Provision for drinking water	item			
	<b>HEALTH AND SAFETY EDUCATION</b>				
31.	Allow for HIV/AIDS awareness and Implementation programmes, including STI and TB	Put Months	24		
32.	Safety Representative Training Working at Heights training Fire fighting training	Put Months	24		
	<b>ENVIRONMENTAL</b>				
33.	Provide for adequate handling and storage of materials so as to minimize contamination of ground, air or water.	Item	1		
34.	Provide for the adequate and safe collection and disposal of waste material from site by an approved method.	Item	1		
35.	Provide Facilities and Eating Area for workers.	Item	1		
36.	Provide for rehabilitation on completion of site areas and temporary access routes not covered by construction or landscaping specifications.	Item	1		
	<b>COMPULSORY BREAKDOWN FOR THE ADJUSTMENT OF PRELIMINARIES</b>				
37.	Value Related	Item			
38.	Fixed Value Related	Item			



39.	Time Related	Item			
40.	<del>Covid-19</del>	<del>Item</del>			
41.	<b>TOTAL</b>				



### **C2.3 Final Summary**

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Amount</u>
<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES</u></b></p> <p><b><u>MEANING OF TERMS "TENDER / TENDERER"</u></b></p> <p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"</p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p>	
Carried to Collection	R
<p>Section No. 1 - Preliminaries</p> <p>Bill No. 1</p> <p>Preliminaries</p> <p>CLARENCE BOBIE INCORPORATED</p>	

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
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<u>Item</u>	<u>Amount</u>
<b><u>PREAMBLES FOR TRADES</u></b>	
<b><u>PREAMBLES</u></b>	
For Preambles refer to "Department of Public Works: PW371 - A Edition 2.0 - Construction Works, General Specifications" as published by the Department of Public Works (2nd Edition July 2013) shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained.	
Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles	
The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications	
<b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b>	
Section A : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> Principal Building Agreement	
Section B : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> General Preliminaries	
Section C : Any special clauses to meet the particular circumstances of the project	
<b><u>PRICING OF PRELIMINARIES</u></b>	
Should the <b>contractor</b> select Option A in the <b>contract data</b> for the adjustment of <b>preliminaries</b> , the amounts entered against the relevant items in these <b>preliminaries</b> are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)	
<b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b>	
Carried to Collection	
R	
Section No. 1 - Preliminaries	
Bill No. 1	
Preliminaries	
CLARENCE BOBIE INCORPORATED	

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<u>Item</u>		<u>Amount</u>
	<b><u>Interpretation (A1-A7)</u></b>	
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>Clause 1.1 Definition of "<b>Agreement</b>" is amended by replacing it with the following:</p> <p><b>"AGREEMENT"</b> means the completed Form of Offer and Acceptance, the completed <b>JBCC</b> Principal Building Agreement and <b>JBCC contract data for organs of state and other public sector bodies</b>, the <b>contract drawings</b>, the <b>priced document</b> and any other documents reduced to writing and signed by the authorised representatives of the <b>parties</b>.</p> <p>Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:</p> <p><b>"CONSTRUCTION PERIOD"</b> means the period commencing on the date of possession of the <b>site</b> by the <b>contractor</b> and ending on the date of <b>practical completion</b></p> <p>Clause 1.1 Definition of "<b>Interest</b>" is amended by replacing it with the following:</p> <p><b>"INTEREST"</b> means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), calculated as simple interest, in respect of debts owing to the State, and will be the rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975), calculated as simple interest, in respect of debts owing by the State</p> <p>Clause 1.1 Definition of "<b>Principal Agent</b>" is amended by replacing it with the following:</p> <p><b>"PRINCIPAL AGENT"</b> means the person or entity appointed by the <b>employer</b> and named in the contract data for organs of state and other public sector bodies. In the event of a <b>principal agent</b> not being appointed, then all the duties and obligations of a <b>principal agent</b> as detailed in the <b>agreement</b> shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies</p> <p><b>Pricing of bills of quantities</b></p>	
	Carried to Collection	R
	Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED	

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**ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Amount</u>
<p>The <b>contractor</b> 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 where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this <b>agreement</b>. Value Added Tax (VAT) is to be separately stated on the summary page of these <b>bills of quantities</b></p> <p>Items left unpriced will be deemed to be covered in prices against other items throughout these <b>bills of quantities</b> and no claim for any extras arising out of the <b>contractor's</b> omission to price any item will be entertained</p> <p>Prices for all <b>construction equipment</b>, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary</p> <p><b>Abbreviated descriptions</b></p> <p>The items in these <b>bills of quantities</b> 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 <b>contractor</b> shall, before submission of his tender, call for a written directive from the <b>principal agent</b>, failing which it shall be assumed that the <b>contractor</b> has allowed in his pricing for materials and workmanship in terms of international best practice</p> <p><b>Legal status of contractor</b></p> <p>If the <b>contractor</b> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> <li>1. These persons are deemed to be jointly and severally liable to the <b>employer</b> for the performance of this <b>agreement</b></li> <li>2. These persons shall notify the <b>employer</b> of their leader who has assigned authority to bind the <b>contractor</b> and each of these persons</li> <li>3. The <b>contractor</b> shall not alter its composition or legal status without the prior written consent of the <b>employer</b></li> </ol>	
Carried to Collection	R
Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED	

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Item			Amount
	F:..... V:..... T:..... <b><u>Clause 2.0 - Law, regulations and notices</u></b> Clause 2.0 F:..... V:..... T:..... <b><u>Clause 3.0 - Offer and acceptance</u></b>  Clause 3.0		
1	Amend 3.3 to read as follows:  This <b>agreement</b> shall come into force on the date as state on the Form of Offer and Acceptance and continue to be of force and effect until the end of the <b>latent defects</b> liability period [22.0] notwithstanding termination [29.0] or the certification of <b>final completion</b> [21.0] and final payment [25.0]  F:..... V:..... T:.....  <b><u>Clause 4.0 - Cession and assignment</u></b> <b><u>F:..... V:..... T:.....</u></b>		
2	Clause 4.0  F:..... V:..... T:.....  <b><u>Clause 5.0 - Documents</u></b>  <b>Value Added Tax</b>  Provision is made in the summary page of these <b>bills of quantities</b> for the inclusion of Value Added Tax (VAT)  F:..... V:..... T:.....		
		Carried to Collection	R
	Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED		

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<u>Item</u>	<u>Amount</u>
<p><b><u>Clause 6.0 - Employer's agents</u></b></p> <p>Clause 6.0</p> <p>Add the following as 6.7: In terms of the clauses listed hereunder, the <b>employer</b> has retained its authority and has not given a mandate to the <b>principal agent</b>. The <b>employer</b> shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6. 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4.</p> <p>The authority of the <b>principal agent</b> to issue <b>contract instructions</b> [17.1] and perform duties for specific aspects of the <b>works</b> is delegated to <b>agents</b> as follows [6.2].</p> <p><b><u>1. Architect</u></b></p> <p>1.1 Duties [6.2] :</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the <b>works</b></p> <p>1.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>1.2.1 No <b>contract instructions</b> delegated to the architect</p> <p><b><u>2. Quantity Surveyor and Principal Agent</u></b></p> <p>2.1 Duties [6.2] :</p> <p>The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the works, including quality inspection.</p> <p>2.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>2.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>2.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED</p>	<p style="text-align: right;">R</p>

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
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<u>Item</u>	<u>Amount</u>
2.2.3 The <b>site</b> [13.0]	
2.2.4 Compliance with the <b>law</b> , regulations and bylaws [2.1]	
2.2.5 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>	
2.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
2.2.7 Removal or re-execution of work	
2.2.8 Removal or substitution of any <b>materials and goods</b>	
2.2.9 Protection of the <b>works</b>	
2.2.10 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]	
2.2.11 Rectification of <b>defects</b> [21.2]	
2.2.12 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>	
2.2.13 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b>	
2.2.14 Appointment of a <b>subcontractor</b> [14.0; 15.0]	
2.2.15 Work by <b>direct contractors</b> [16.0]	
2.2.16 On suspension or termination, protection of the <b>works</b> , removal of <b>construction equipment</b> and surplus <b>materials and goods</b> [29.0]	
<b>3. <u>Civil and structural engineer</u></b>	
3.1 Duties [6.2] :	
The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the <b>works</b>	
Carried to Collection	R
Section No. 1 - Preliminaries Bill No. 1 Preliminaries CLARENCE BOBIE INCORPORATED	



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[illegible]

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Item	Amount
<p>4.1 Duties [6.2] :</p> <p>The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> 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 <b>Contract instructions</b> [6.2; 17.1] :</p>	
<p>4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p>	
<p>4.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p>	
<p>4.2.3 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p>	
<p>4.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p>	
<p>4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p>	
<p>4.2.6 Removal or re-execution of work</p>	
<p>4.2.7 Removal or substitution of any <b>materials and goods</b></p>	
<p>4.2.8 Protection of the <b>works</b></p>	
<p>4.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p>	
<p>4.2.10 Rectification of <b>defects</b> [21.2]</p>	
<p>4.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p>	
<p>4.2.12 Expenditure of <b>budgetary allowances, prime cost amounts</b> and <b>provisional sums</b></p>	
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<p><b>5. Electrical engineer</b></p> <p>5.1 Duties [6.2] :</p> <p>The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions</p> <p>5.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>5.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>5.2.3 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>5.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>5.2.6 Removal or re-execution of work</p> <p>5.2.7 Removal or substitution of any <b>materials and goods</b></p> <p>5.2.8 Protection of the <b>works</b></p> <p>5.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]</p> <p>5.2.10 Rectification of <b>defects</b> [21.2]</p> <p>5.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b>, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b></p>	
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<u>Item</u>	<u>Amount</u>
5.2.12 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b>	
<b>6. <u>Wet services engineer</u></b>	
6.1 Duties [6.2] :	
The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the <b>works</b>	
6.2 <b>Contract instructions</b> [6.2; 17.1] :	
6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement	
6.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b>	
6.2.3 Compliance with the <b>law</b> , regulations and bylaws [2.1]	
6.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>	
6.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
6.2.6 Removal or re-execution of work	
6.2.7 Removal or substitution of any <b>materials and goods</b>	
6.2.8 Protection of the <b>works</b>	
6.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]	
6.2.10 Rectification of <b>defects</b> [21.2]	
6.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical</b> completion, a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>	
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6.2.12 Expenditure of <b>budgetary allowances, prime cost amounts</b> and <b>provisional sums</b>	
<b>7. Fire consultant</b>	
7.1 Duties [6.2] :	
The fire consultant is responsible for all aspects of rational fire design and quality inspection of the <b>works</b>	
7.2 <b>Contract instructions</b> [6.2; 17.1] :	
7.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement	
7.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b>	
7.2.3 Compliance with the <b>law</b> , regulations and bylaws [2.1]	
7.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>	
7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]	
7.2.6 Removal or re-execution of work	
7.2.7 Removal or substitution of any <b>materials and goods</b>	
7.2.8 Protection of the <b>works</b>	
7.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]	
7.2.10 Rectification of <b>defects</b> [21.2]	
7.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>	
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<u>Item</u>		<u>Amount</u>
1	<p>Clause 10.0 - Insurances</p> <p>Add the following as 10.1.5.1:</p> <p>Hi Risk Insurance</p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sink-holes or doline formation the following will apply:</p> <p>10.1.5.1.1 Damage to the works</p> <p>The contractor shall, from the date of possession of the site until the date certificate of practical completion, bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary</p> <p>When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs</p> <p>10.1.5.1.2 Injury to persons or loss of or damage to property</p> <p>The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above</p> <p>The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract</p> <p>10.1.5.1.3</p> <p>It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the</p>	
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	<p>contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of possession of the site, but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so</p> <p>10.1.5.1.4</p> <p>The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1, 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole</p> <p>F:..... V:..... T:.....</p>	
1	<p>Clause 11.0 - <b>Securities</b></p> <p><b>Extension of waiver of lien</b></p> <p>Clause 11.0</p> <p>Amend 11.10 to read as follows:</p> <p>There shall be no lien or right of retention held by any <b>contractor</b> in respect of the <b>works</b> executed on <b>site</b></p> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
	<b><u>Execution (A12 - A17)</u></b>	
1	<p>Clause 12.0 - Obligations of the <b>parties</b></p> <p>Clause 12.0</p> <p>Amend 12.1.5 to read as follows:</p> <p>Give possession of the site to the contractor within ten (10) working days of the contractor complying with the terms of 12.2.22</p> <p>12.2.22: Not applicable</p> <p>Add the following as 12.2.18:</p> <p><b>Office accommodation</b></p> <p>The <b>contractor</b> shall provide, maintain and remove on <b>practical completion</b> air conditioned office accommodation with suitable tables and chairs for meetings to be held on the <b>site</b>. Such offices shall be kept clean and fit for use at all times</p> <p><b>Notice board</b></p> <p>The <b>contractor</b> shall erect in a position approved by the <b>principal agent</b>, maintain and remove on <b>practical completion</b> a notice board recommended by the South African Institute of Architects and as approved by the <b>principal agent</b> listing the names and logos of the <b>employer</b>, the <b>contractor</b> and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the <b>principal agent</b> for such notice boards to be erected</p> <p><b>Statutory and other notices</b></p> <p>The <b>contractor</b> 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 <b>works</b> by the <b>contractor</b>. The <b>contractor</b> shall pay all deposits or fees in this regard.</p> <p>Add the following as 12.2.22:</p> <p>Within fifteen (15) <b>working days</b> of the date of the <b>agreement</b> submit to the <b>principal agent</b> an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p>	
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	<p>It is, however, specifically recorded that the <b>employer</b> 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>F:..... V:..... T:.....</p>	
1	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>	
2	<p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	
3	<p>Clause 15.0 - Selected <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	
4	<p>Clause 16.0 - <b>Direct contractors</b></p> <p><b>Attendance on direct contractors</b></p> <p>In respect of <b>direct contractors</b> the <b>contractor</b> shall:</p> <ol style="list-style-type: none"> <li>1. Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials</li> <li>2. Allow the use of personnel welfare facilities, where provided</li> <li>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</li> <li>4. Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b>, in common with others having the like right, while it remains erected on the <b>site</b> [16.1]</li> </ol> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
1	<p>Clause 17.0 - <b>Contract instructions</b></p> <p><b>Site instructions</b></p> <p>Instructions issued on <b>site</b> are to be recorded in a A4 site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>Completion (A18 - A24)</u></b></p>	
2	<p>Clause 18.0 - Interim completion</p> <p>Clause 18.0 "To be deleted"</p>	
3	<p>Clause 19.0 - <b>Practical completion</b></p> <p>Clause 19.0</p> <p>Amend 19.5: Delete the works "subject to the <b>contractor's</b> lien or right of continuing possession of the <b>works</b> where this has not been waived"</p> <p>F:..... V:..... T:.....</p>	
4	<p>Clause 20.0 - Completion in <b>sections</b></p> <p>F:..... V:..... T:.....</p>	
5	<p>Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b></p> <p>Clause 21.0</p> <p>Add the following as 21.13:</p> <p>The ninety (90) calendar days defects liability period for the works [21.1] is replaced with a period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements</p> <p>F:..... V:..... T:.....</p>	
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1	<p>Clause 22.0 - <b>Latent defects</b> liability period</p> <p>F:..... V:..... T:.....</p>	
2	<p>Clause 23.0 - Revision of the date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall <b>not</b> constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 &amp; 2]</p> <p>F:..... V:..... T:.....</p>	
3	<p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><b><u>Payment (A25 - A27)</u></b></p>	
4	<p>Clause 25.0 - Payment</p> <p>25.7.5: Not applicable</p> <p>25.10: Delete the words "and/or <b>compensatory interest</b>"</p> <p>25.14.2: Not applicable</p> <p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>F:..... V:..... T:.....</p>	
5	<p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p>	
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	<p>Should the <b>contractor</b> be instructed to do so he shall execute this work under the conditions pertaining to this <b>agreement</b> on the basis that a separate amount for <b>preliminaries</b> appurtenant to this work (if applicable) is agreed to between the <b>contractor</b> and the <b>principal agent</b> 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 <b>practical completion</b> of the <b>works</b></p> <p>The <b>employer</b> reserves the right to omit such work without compensation to the <b>contractor</b> for loss of profit or any other loss which the <b>contractor</b> may suffer as a result of such omission</p> <p><b>Cost of claims</b></p> <p>All costs incurred by the <b>contractor</b> in the preparation of claims shall be borne by the <b>contractor</b>. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this <b>agreement</b> [30.6 &amp; 7] from making a determination on costs</p> <p><b>Claims from subcontractors</b></p> <p>The <b>contractor</b> shall review, assess and adjudicate any claims received by him from any <b>subcontractor</b> and thereafter submit same to the <b>principal agent</b> with a recommendation in order to assist the <b>principal agent</b> in adjudicating the claim [26.6]</p> <p>F:..... V:..... T:.....</p>	
1	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>27.1.5: Not applicable</p> <p>F:..... V:..... T:.....</p> <p><b><u>Suspension and termination (A28 - A29)</u></b></p>	
2	<p>Clause 28.0 - Suspension by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	
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1	<p>Clause 29.0 - Termination</p> <p>Add the following after 29.1.3:</p> <p>or where ...</p> <p>29.1.4: The <b>contractor's</b> estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa</p> <p>29.1.5: The <b>contractor</b> has engaged in corrupt or fraudulent practices in competing for or in executing the contract</p> <p>F:..... V:..... T:.....</p> <p><b><u>Dispute resolution (A30)</u></b></p>	
2	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p> <p><b><u>CONTRACT VARIABLES (A31)</u></b></p>	
3	<p>Clause 31.0 - The Schedule (C1.2 Contract Data)</p> <p>Tenderers are referred to C1.2 Contract Data for variables pertaining to this contract</p> <p><b><u>Contract data</u></b></p> <p>Before submission of this tender the <b>contractor</b> is to complete the tenderers' selections in the <b>contract data</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>SECTION B: GENERAL PRELIMINARIES</u></b></p> <p><b><u>Definitions and interpretation (B1)</u></b></p>	
4	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	
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1	Clause 1.2 - Interpretation F:..... V:..... T:..... <b><u>Documents (B2)</u></b>	
2	Clause 2.1 - Checking of documents F:..... V:..... T:.....	
3	Clause 2.2 - Provisional <b>bills of quantities</b> F:..... V:..... T:.....	
4	Clause 2.3 - Availability of <b>construction information</b> F:..... V:..... T:.....	
5	Clause 2.4 - Ordering of <b>materials and goods</b> F:..... V:..... T:..... <b><u>Previous work and adjoining properties (B3)</u></b>	
6	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	
7	Clause 3.2 - Previous work - <b>defects</b> F:..... V:..... T:.....	
8	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:..... <b><u>The site (B4)</u></b>	
9	Clause 4.1 - Handover of <b>site</b> in stages F:..... V:..... T:.....	
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1	Clause 4.2 - Enclosure of the <b>works</b>  F:..... V:..... T:.....	
2	Clause 4.3 - Geotechnical and other investigations  F:..... V:..... T:.....	
3	Clause 4.4 - Encroachments  F:..... V:..... T:.....	
4	Clause 4.5 - Existing premises occupied  F:..... V:..... T:.....	
5	Clause 4.6 - Services - known  F:..... V:..... T:.....	
	<b><u>Management of contract (B5)</u></b>	
6	Clause 5.1 - Management of the <b>works</b>  F:..... V:..... T:.....	
7	Clause 5.2 - Progress meetings  F:..... V:..... T:.....	
8	Clause 5.3 - Technical meetings  F:..... V:..... T:.....	
	<b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b>	
9	Clause 6.1 - Samples of materials  F:..... V:..... T:.....	
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<u>Item</u>		<u>Amount</u>
1	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	
2	Clause 6.3 - Shop drawings F:..... V:..... T:.....	
3	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	
	<b><u>Deposits and fees (B7)</u></b>	
4	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	
	<b><u>Temporary services (B8)</u></b>	
5	Clause 8.1 - Water Option A (by <b>contractor</b> ) <b>YES</b> Option B (by <b>employer</b> - free of charge) <b>NO</b> Option C (by <b>employer</b> - metered) <b>NO</b> F:..... V:..... T:.....	
6	Clause 8.2 - Electricity Option A (by <b>contractor</b> ) <b>YES</b> Option B (by <b>employer</b> - free of charge) <b>NO</b> Option C (by <b>employer</b> - metered) <b>NO</b> F:..... V:..... T:.....	
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<u>Item</u>		<u>Amount</u>
1	<p>Clause 8.3 - Ablution and welfare facilities</p> <p>Option A (by <b>contractor</b>)                      <b>YES</b></p> <p>Option B (by <b>employer</b>)                      <b>NO</b></p> <p>F:..... V:..... T:.....</p>	
2	<p>Clause 8.4 - Communication facilities</p> <p>Telephone                                      <b>YES</b></p> <p>Facsimile                                      <b>NO</b></p> <p>E-mail                                      <b>NO</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>Prime cost amounts (B9)</u></b></p>	
3	<p>Clause 9.1 - Responsibility for <b>prime cost amounts</b></p> <p>Where details of materials for which prime cost amounts are to be allowed are readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc</p> <p>F:..... V:..... T:.....</p> <p><b><u>Attendance on subcontractors (B10)</u></b></p>	
4	<p>Clause 10.1 - General attendance</p> <p>F:..... V:..... T:.....</p>	
5	<p>Clause 10.2 - Special attendance</p> <p>F:..... V:..... T:.....</p>	
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<u>Item</u>		<u>Amount</u>
	<b><u>General (B11)</u></b>	
1	Clause 11.1 - Protection of the <b>works</b> F:..... V:..... T:.....	
2	Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b> F:..... V:..... T:.....	
3	Clause 11.3 - Security of the <b>works</b> F:..... V:..... T:.....	
4	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	
5	Clause 11.5 - Disturbance  <b>Disturbance</b>  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 <b>construction period</b> or <b>contract value</b> whatsoever  F:..... V:..... T:.....	
6	Clause 11.6 - Environmental disturbance  <b>Controlling all forms of pollution</b>  The <b>contractor</b> shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the <b>site</b> during the <b>construction period</b> due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc	
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<u>Item</u>		<u>Amount</u>
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>	
1	<p><b>C1 GUARANTEES</b></p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent not later than the works completion date.</p> <p>The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of final completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so.</p> <p>This guarantee will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor.</p> <p>The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement.</p>	
2	<p><b>C2 OVERTIME</b></p> <p>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.</p>	
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<u>Item</u>		<u>Amount</u>
1	<p><b>C3 CONFIDENTIALITY</b></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>	
2	<p><b>C4 CONTRACT DRAWINGS</b></p> <p>The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the <b>works</b> and the manner in which they are to be executed.</p> <p>Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the <b>principal agent</b></p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
3	<p><b>C5 TRADE NAMES</b></p> <p>Wherever a trade name for any product has been described in the <b>bills of quantities / lump sum document</b>, the renderers attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the <b>principal agent</b> being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
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<u>Item</u>		<u>Amount</u>
1	<p><b>C6 LOCAL PRODUCTION AND CONTENT</b></p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Local Production and Content (SBD 6.2) to be completed by tenderer)</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)</p> <p>Fixed: _____ Value related: _____ Time related: _____</p> <p><b>C7 HIV/AIDS AWARENESS</b></p> <p>It is required of the <b>contractor</b> to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the <b>Bills of Quantities / lump sum document</b>. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained</p> <p>The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p>	
2	<p><b>C7.1 AWARENESS CHAMPION</b></p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
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<u>Item</u>		<u>Amount</u>
1	<p><b>C7.2 AWARENESS WORKSHOPS</b></p> <p>Selection and appointment of a competent Service Provider approved by the <b>principal agent</b>, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
2	<p><b>C7.3 POSTERS, BOOKLETS, VIDEOS, ETC.</b></p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the <b>construction period</b>, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
3	<p><b>C7.4 ACCESS TO CONDOMS</b></p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the <b>construction period</b>, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
4	<p><b>C7.5 MONITORING</b></p> <p>Monitoring HIV/AIDS awareness of workers, providing the <b>principal agent</b> with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the <b>construction period</b> and close out, all in accordance with the HIV/AIDS Specification</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
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<u>Item</u>		<u>Amount</u>
1	<p><b>C8 : OCCUPATIONAL HEALTH AND SAFETY ACT</b></p> <p>The <b>contractor</b> shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the <b>contractor</b> to thoroughly study the Health and Safety Specification (<b>Book 1 - Part C3 - Item 3.3</b>) that must be read together with and is deemed to be incorporated under this Section of the <b>bills of quantities / lump sum document</b></p> <p>The <b>contractor</b> must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the <b>principal agent</b>, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	
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<u>Item</u>		<u>Amount</u>
1	<p>C9 : COVID 19</p> <p>The <b>contractor</b> shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and the Disaster Management, 2002 (Act 57 of 2002) It is required of the <b>contractor</b> to thoroughly study the Covid 19 Additional Health and Safety Specification (<b>Book 1 - Part C3 - Item 3.3</b>) that must be read together with and is deemed to be incorporated under this Section of the <b>Bills of Quantities / Lump Sum Document</b>.</p> <p>The <b>contractor</b> must take note that compliance with the Additional Covid 19 Occupational Health and Safety Act Requirements, Construction Regulations, Disaster Management Act and Health and Safety Specification is compulsory.</p> <p>In the event of partial or total non-compliance, the <b>principal agent</b>, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress <b>payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance.</p> <p>The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p> <p>Provision for pricing of the Additional Covid 19 Occupational Health and Safety Act Requirements, Construction Regulations, Disaster Management Act and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p><b><u>SUMMARY OF CATEGORIES</u></b></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 - Preliminaries  Bill No. 1  Preliminaries  CLARENCE BOBIE INCORPORATED</p>	<p style="text-align: right;">R</p>

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>DEMOLITIONS AND ALTERATIONS (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>NOTE:</u></b>			
Tenderers are advised to visit the site and to satisfy themselves, in conjunction with the drawings of the nature and extent of the works to be done.			
The Contractor is advised to check all dimensions and heights on site affecting the existing buildings against those indicated on the plans as he will be held responsible for all new work being of the correct sizes. Should any discrepancies be found he is to refer them to the Architect for correction before proceeding with the work.			
Special care is to be exercised not to interfere with any electric light, power or telephone wires and due notice must be given to the Architect for any disconnections that are necessary, and the Contractor is to afford every facility to the Electrician when making new connections.			
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>In taking down and removing existing work, the utmost care is to be observed to avoid any structural or other damage to the remaining portion of the building. The Contractor must protect all work not removed, such as walls, floors, doors, windows or other joinery or fittings, etc., from damage during the progress of the work and provide all necessary material for so doing.</p> <p>The Contractor will be held solely responsible for any damage to persons or property and for the safety of the portions of the existing buildings throughout the whole of the Contract, and must make good at his own expense any damage that may occur.</p> <p>The materials to be used and the work to be done are to be similar in all respect to that described for new work in so far as they occur.</p> <p>Old materials from the pulling down are to remain the property of the contractor unless otherwise stated. Old materials for re-use are to be carefully taken out, stored and protected from injury and made good as required before being refixed. Old materials described to be handed over are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish are to be immediately carted away and the site left clean and unencumbered. None of the old bricks from the demolition are to be re-used for any new work unless otherwise described or directed.</p> <p>For the purpose of this contract and to avoid misunderstanding, phrases stated hereunder have been defined and the Contractor is advised to study them as no claim whatsoever will be entertained as a result of him not so doing.</p> <p>a)"Forming New Openings" shall include all labour and materials forming opening, cut toothings and bonding for and plumbing and flushing up reveals, cutting for and forming precast concrete, or reinforced brick lintol over including necessary turning pieces, reinforcement, etc.</p>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p>b)"Bricking up Openings" shall include for all preparatory work, cut toothings and bond new brickwork to existing and preparing top of existing surface for raising upon and pinning up new brickwork to underside of existing.</p> <p>c)"Making Good" shall include all labour and materials required to match existing work and is to include making good new work up to existing and labours to plaster, etc.</p> <p>d)"Shoring" is not specifically mentioned in each item, however prices are to include for all shoring, needling, strutting, deadwork, etc., required.</p>			
	<p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 102</p> <p><b><u>DEMOLITIONS</u></b></p>			
1	<p>Demolish carefully <b><u>1 x Storage/Toilet Block</u></b> complete, size approximately 2.4m x 2.4m wide on plan (single storey), consisting of 540mm brick and sandstone walls timber trusses and corrugated iron sheeting etc. including backfilling where foundations removed and filling trenches and holes, cart away all material which is not required by the client and handover all material as to be instructed on site.</p>	No	1	
2	<p>Demolish carefully <b><u>1 x Holding Cell</u></b> complete, size approximately 4.6m x 3.2m wide on plan (single storey), consisting of 220mm brick and 200mm thick slab, etc. including backfilling where foundations removed and filling trenches and holes, cart away all material which is not required by the client and handover all material as to be instructed on site.</p>	No	2	
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Item		Quantity	Rate	Amount
1	Demolish carefully <b><u>1 x Delivery Yard Structure</u></b> complete, size approximately 6.0m x 5.6m wide on plan (single storey), consisting of 220mm brick and steel poles supported wire mesh covering, etc. including backfilling where foundations removed and filling trenches and holes, cart away all material which is not required by the client and handover all material as to be instructed on site.	No	1	
	<b><u>Breaking up and removing reinforced concrete</u></b>			
2	Average 480 x 150mm Stormwater channel	m	58	
	<b><u>Breaking up and removing mass concrete</u></b>			
3	100 mm Thick mesh reinforced concrete surface beds, paving, etc.	m2	540	
4	Concrete steps	m3	1	
5	Concrete footings average 600mm deep	m3	1	
	<b><u>Excavate and cart away ground filling under slabs</u></b>			
6	Ground filling	m3	23	
	<b><u>Breaking down and removing brickwork, etc.</u></b>			
7	Half brick wall	m2	50	
8	One brick wall	m2	136	
9	380mm Sandstone wall	m2	39	
10	540mm Brick/Sandstone wall	m2	5	
11	50mm Concrete pavers	m2	177	
12	220 x 160 x 30mm steel air brick.	No	10	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Taking out and removing doors, windows, etc., including thresholds, sills, etc. (building up openings elsewhere)</u></b>			
1	Carefully remove and set aside for reuse, glazed timber window, including surrounds, stone and timber cills size 1150 x 1800mm high from 540mm brick wall and brick up openings (elsewhere)	No 3		
2	Remove glazed steel window, size 533 x 654mm high from 220mm brick wall	No 12		
3	Timber single door and steel frame 900 x 2 100 mm high overall from 270 mm brick wall	No 9		
4	Carefully remove and set aside timber single door and timber fanlight frame 879 x 2 860 mm high overall from 540 mm brick wall	No 4		
5	Timber double glazed top garage door and frame overall size 2700 x 3600 mm high overall from 380 mm sandstone walls	No 2		
	<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u></b>			
6	Tongued and grooved timber suspended floors including, joists, bearers, floor covering, skirtings, etc complete	m2 151		
7	38 x 114mm Rafters	m 74		
8	50 x 76mm Purlins	m 74		
9	50 x 250mm Beams	m 20		
10	Corrugated iron roof covering, Rafters,purlins, rain water goods, eaves closers, fascia and barge boards, ceilings, etc.complete (Mono pitched roofs)	m2 121		
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**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Corrugated iron roof covering (Measured on slope, existing trusses and purlins to remain)	m2	31		
2	Eaves gutters	m	163		
3	Fibre cement fascias	m	163		
4	Timber cornices	m	194		
5	Gypsum plasterboard ceilings including cornices, timber bandering, etc.	m2	434		
6	Drywall partitioning comprising timber formed top, bottom and vertical framing with butt jointed boards	m2	53		
	<b><u>Taking out and removing joinery fittings, etc.</u></b>				
7	Take out timber skirting 140 mm high.	m	239		
8	Timber sink cupboard 1 500 x 500 x 900 mm high, including disconnecting waste pipe (new trap and connecting to new waste pipe elsewhere)	No	2		
	<b><u>Removal of strong room shelving</u></b>				
9	Disassemble and remove, timber shelving 4000mm high	m	24		
	<b><u>Removal of Cash hall fittings</u></b>				
10	Disassemble and remove, Cash hall writing counter, approximate overall size 3500 x 350mm wide.	No	1		
11	Disassemble and remove, entire reception counter and bullet proof glazing and frame, approximate overall size 6500 x 700 x 900mm high.	No	1		
	<b><u>Removal of Courtroom fittings</u></b>				
	Carried to Collection			R	
	Section No. 2 - Demolitions and Alterations				
	Bill No. 1				
	Demolitions and Alterations (Provisional)				
	CLARENCE BOBIE INCORPORATED				

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Court Room A</u></b>					
1	Disassemble and remove, existing court magistrate bench, approximate overall size 5000 x 2000 x 1500mm high.	No	1		
2	Disassemble and remove, existing witness stands, approximate overall size 1600 x 1600 x 800mm high.	No	2		
3	Disassemble and remove, existing accused stands, approximate overall size 4000 x 1600 x 800mm high.	No	1		
4	Disassemble and remove, existing court public sit benches, approximate overall size 3000 x 500 x 750mm high.	No	18		
5	Disassemble and remove, existing court timber partitions, approximate 900mm high.	m	7		
6	Disassemble and remove, existing court tables, approximate overall size 1500 x 900 x 750mm high.	No	6		
<b><u>Court Room B</u></b>					
7	Disassemble and remove, existing court magistrate bench, approximate overall size 4200 x 2300 x 1500mm high.	No	1		
8	Disassemble and remove, existing witness stands for repairs to floor, approximate overall size 2000 x 900 x 1100mm high.	No	1		
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Disassemble and remove, existing accused bench for repairs to floor, approximate overall size 3000 x 900 x 1100mm high.	No	1		
2	Disassemble and remove, existing court public sit benches, approximate overall size 3000 x 500 x 750mm high.	No	6		
3	Disassemble and remove, existing court timber partitions, approximate 1100mm high.	m	4		
4	Disassemble and remove, existing court tables, approximate overall size 1500 x 900 x 750mm high.	No	3		
<b><u>Removal of prosecutor room fittings</u></b>					
5	Disassemble and remove, counter desk, approximate overall size 4000 x 900 x 900mm high.	No	1		
6	Remove existing built in cupboard, approximate overall size 2800 x 600 x 1600mm high.	No	1		
<b><u>Taking out and removing ironmongery (LI)</u></b>					
7	Mortice lock and striking plate from timber door and steel/timber frame	No	17		
8	Standard door hinges	No	51		
<b><u>Taking out and removing glass and mirrors including carting away</u></b>					
9	Glass from existing timber windows	m2	50		
10	Glass from existing timber fanlights	m2	7		
Carried to Collection					R
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Item		Quantity	Rate	Amount
<b><u>Taking up and removing vinyl floor coverings, carpeting, etc.</u></b>				
1	Vinyl tile floor covering.	m2	360	
2	Carpet tile floor covering.	m2	21	
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screeds, plaster, etc.</u></b>				
3	Internal plaster from walls and columns	m2	803	
4	External plaster from walls and columns	m2	50	
5	Plaster to soffits of slabs	m2	33	
6	30 mm Screeds from existing surface beds.	m2	127	
7	Average 30mm plaster skirting average 300mm high.	m	45	
<b><u>Taking out/off and removing sundry metalwork and handover to employer</u></b>				
8	Steel security gate 1 000 x 2 032 mm high	No	2	
9	Roll Up shutter size 1300 x 1900mm high	No	3	
<b><u>Taking out and removing piping, sanitary fittings, etc., including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>				
10	Rainwater downpipes	m	165	
11	15 mm Copper piping including fittings and brackets	m	35	
12	22 mm Copper piping including fittings and brackets	m	18	
13	50 mm PVC pipe and fittings.	m	25	
Carried to Collection				R
Section No. 2 - Demolitions and Alterations Bill No. 1 Demolitions and Alterations (Provisional) CLARENCE BOBIE INCORPORATED				

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ADDITIONAL ACCOMMODATION**

<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	110 mm PVC pipe and fittings	m	16		
2	Standpipe and tap	No	2		
3	Stainless steel urinal 1600 x 1 200 mm high including breaking up and removing 340 mm wide concrete urinal step	No	1		
4	Vitreous china wash hand basin	No	8		
5	Vitreous china WC pan with cistern	No	10		
Carried to Collection					R
Section No. 2 - Demolitions and Alterations					
Bill No. 1					
Demolitions and Alterations (Provisional)					
CLARENCE BOBIE INCORPORATED					

Section 2

Bill No. 1

Demolitions and Alterations (Provisional)

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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>EARTHWORKS</u></b>			
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Nature of material to be excavated</u></b>			
The material to be excavated is assumed to be predominantly of a composition that will allow excavation in "earth" as specified, but including a percentage of excavation in "soft rock" and "hard rock"			
<b><u>Carting away of excavated material</u></b>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site			
Carried to Collection		R	
Section No. 3 - New Works Bill No. 1 Earthworks (Provisional) CLARENCE BOBIE INCORPORATED			



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Item	Quantity	Rate	Amount
<b><u>Dewatering of excavations</u></b>			
The Contractor shall allow for removing seepage and other water from subterranean sources from the excavations by pumping, baling or otherwise			
Accurate records of all such dewatering shall be kept to determine the total volume of water so removed and a clear distinction shall be made between water from subterranean sources and other water			
<b><u>Density testing on filling</u></b>			
Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved			
When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally			
<b><u>EARTHWORKS</u></b>			
<b><u>Excavations</u></b>			
<b><u>Excavate in pickable material not exceeding 2 m deep below natural or reduced ground level (Labour-intensive)</u></b>			
1	150mm Deep over site between buildings, retaining walls, etc to remove top soil and depositing excavated material in prescribed stock piles on site	m3 47	
2	Surface trenches.	m3 224	
3	Reduce levels under surface beds	m3 93	
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
4	Soft rock	m3 22	
Carried to Collection			R
Section No. 3 - New Works Bill No. 1 Earthworks (Provisional) CLARENCE BOBIE INCORPORATED			

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Hard rock	m3	11		
	<b><u>Garden soil filling obtained from the excavations and/or prescribed stock piles on site</u></b>				
2	Spread over site	m3	47		
	<b><u>Extra over all excavations for carting away:</u></b>				
3	Extra over all excavations for carting surplus excavated material and spreading, levelling and lightly compacting on site where directed average 150 m from the excavations (Measured Nett - No Allowance made for bulking).	m3	314		
	<b><u>Compaction of surfaces</u></b>				
4	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	552		
	<b><u>Risk of collapse of excavations:</u></b>				
5	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	722		
	<b><u>Keeping excavations free of water:</u></b>				
6	Keeping excavations free from mud and all water including subterranean sources.		Item		
	<b><u>FILLING, ETC</u></b>				
	<b><u>19mm Crushed stone dressing evenly spread with larger stones around outlets</u></b>				
7	150mm Thick on waterproofing under floors	m2	259		
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>G7 earth filling supplied by the contractor compacted to 93% Mod AASHTO density:</u></b>			
1	Backfilling to trenches, holes, etc.	m3	98	
2	Under concrete surface beds in accordance with SABS 1200 DM compacted in max 150mm thick layers to 93% Mod AASHTO density.	m3	348	
	<b><u>G5 earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>			
3	Under concrete surface beds in accordance with SABS 1200 DM compacted in 150mm thick layers to 95% Mod AASHTO density.	m3	109	
	<b><u>Coarse river sand filling</u></b>			
4	Under floors, etc	m3	31	
	<b><u>Prescribed density tests on filling:</u></b>			
5	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	22	
Carried to Collection				R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 2</u></b>			
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Cost of tests</u></b>			
Descriptions of concrete items shall be deemed to include for all necessary testing of concrete components and trail mixes			
The costs of making, storing and testing of concrete test cubes as required 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 to the approval of the Principal Agent. (Test cubes are measured separately)			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 110			
Carried to Collection			
Section No. 3 - New Works			
Bill No. 2			
Concrete, Formwork & Reinforcement (Provisional)			
CLARENCE BOBIE INCORPORATED			
		R	

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>15MPa/19mm concrete</u></b>				
1	Surface blinding under footings and bases	m3	12		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>25MPa/19mm concrete:</u></b>				
2	Footings to walls (Provisional).	m3	65		
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
	<b><u>25MPa/19mm concrete:</u></b>				
3	Surface beds on waterproofing	m3	93		
	<b><u>Thicken out surface beds, etc.</u></b>				
4	Thicken out 125 mm surface beds to a total thickness of 250 mm for a width of 500 mm under walls, including all necessary excavation, surface preparation, additional concrete and formwork, etc.	m	20		
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
	<b><u>30 MPa/19mm concrete</u></b>				
5	Slabs, including beams and inverted beams	m3	33		
6	Extra over slabs for breaking out 300mm high x 105mm deep in existing stone/ brickwork to creating casting pocket for slab ends	m	12		
7	Wall beams	m3	25		
	<b><u>CONCRETE TESTS</u></b>				
	Carried to Collection				
	Section No. 3 - New Works				
	Bill No. 2				
	Concrete, Formwork & Reinforcement (Provisional)				
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Test blocks:</u></b>				
1	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No	25		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b><u>Finishing top surfaces of concrete smooth with a wood float:</u></b>				
2	Surface beds, slabs, etc	m2	563		
	<b><u>Finishing top surfaces of concrete smooth with a steel trowel</u></b>				
3	Surface beds, slabs, etc.	m2	10		
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP Work Group No 111)</u></b>				
	<b><u>Smooth Formwork to Sides:</u></b>				
4	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	164		
	<b><u>Smooth Formwork to Sides and Soffits:</u></b>				
5	Beams propped up exceeding 1,5m high and not exceeding 3,5m high.	m2	237		
	<b><u>Smooth Formwork to Soffits:</u></b>				
6	Slabs propped up exceeding 1,5m high and not exceeding 3,5m high.	m2	157		
	<b><u>Extra on smooth formwork to soffits for boxing or blocking in or boxing out to form:</u></b>				
7	110mm Diameter opening through 150mm thick slab (Provisional).	No	24		
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>MOVEMENT JOINTS ETC</u></b>				
	<b><u>CPAP WORK GROUP 111</u></b>				
	<b><u>SLIP JOINTS BETWEEN CONCRETE AND BRICKWORK</u></b>				
	<b><u>Two layers of 3 ply maltoid on and including 10mm mortar layer in 1:3 mix:</u></b>				
1	Not exceeding 300mm wide.	m	246		
	<b><u>ISOLATION JOINTS</u></b>				
	<b><u>Isolation Joints</u></b>				
2	Low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 100 x 12mm thick with tear off strip fitted to isolation joints in concrete surface with adhesive as per adhesive manufacturer's recommendation.	m	482		
	<b><u>Approved polyurethane elastometric adhesive/sealant colour Concrete Grey applied in accordance with the manufacturer's instructions.</u></b>				
3	12 x 10mm Deep in isolation joints in floors or walls including raking out expansion joint filler as necessary.	m	482		
	<b><u>CONSTRUCTION JOINTS</u></b>				
	<b><u>Horizontal construction joints through concrete including bond breaker on interface (lime wash or similar)</u></b>				
4	Form construction joint in concrete surface bed not exceeding 100mm thick including inserting of diamond dowel 114 x 114 x 8mm thick plates at 500mm centres including all necessary formwork and coating full face of concrete with a debonding agent.	m	72		
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Saw cut joints</u></b>				
1	6 x 25mm Deep saw cut joints in top of construction joints in concrete surface beds	m	72		
	<b><u>Surface to be clean, dry and sound. Mix two components thoroughly to form a homogenous mixture and apply Masterflex® 320 flexible epoxy joint filler to joint with a minimum depth of 20mm over a 3-5mm layer of silica at the base of the joint using a closed barrel gun, all in accordance with manufacturer's recommendations.</u></b>				
2	6 x 20mm Deep in saw cut joints to construction joints.	m	72		
	<b><u>SAW CUT JOINTS</u></b>				
	<b><u>Saw cut joints</u></b>				
3	3 x 30mm Deep saw cut joints in top of concrete surface beds	m	17		
	<b><u>Approved polysulphide sealing compound including backing cord, bond breaker, primer etc.:</u></b>				
4	3 x 10mm Deep in saw cut joints between concrete surfaces.	m	17		
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
	<b><u>CPAP WORK GROUP 114</u></b>				
	<b><u>Fabric reinforcement in surface beds:</u></b>				
5	Type 193 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 1,93 kg/m² with nominal 5.6mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (measured net)	m2	716		
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Type 245 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 2,45 kg/m <sup>2</sup> with nominal 6,3mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	8	
	<b><u>Fabric reinforcement in walls:</u></b>			
2	Type 617 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 6,17 kg/m <sup>2</sup> with nominal 10mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	58	
	<b><u>Mild steel reinforcement to structural concrete work:</u></b>			
3	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	1,112	
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>			
4	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	8,072	
Carried to Collection				R
Section No. 3 - New Works				
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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>MASONRY</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>BRICKWORK</u></b>			
<b><u>Sizes in descriptions</u></b>			
Where sizes in descriptions are given in brick units, "one brick" shall be the length and "half brick" the width of a brick			
<b><u>Cement mortar</u></b>			
Unless otherwise described, all brickwork shall be built in 1:6 cement mortar			
<b><u>Face bricks</u></b>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
Carried to Collection			R
Section No. 3 - New Works Bill No. 3 Masonry CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Pointing</u></b>				
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
<b><u>Samples, etc</u></b>				
Rates for brickwork, faced brickwork, etc shall include for all required samples				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 116				
<b><u>BRICKWORK</u></b>				
<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>				
<b><u>14MPa nominal compressive strength Imperial NFX loadbearing perforated plaster brick, size 222 x 73 x 106mm, manufactured in accordance with SANS 227:2007, laid in foundations walls to single storey building and bedded and jointed in Class I mortar. Mortar in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in mortar Class 1 to be mixed to the ratio of 1 part cement : 4 parts sand, (sand to conform to SANS 1083:2006) to highly stressed masonry, incorporating high structural units.</u></b>				
1	One brick walls.	m2	433	
2	280mm Wide cavity walls of two half brick skins including wire butter fly ties at a rate of 10no. per square metre.	m2	34	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	330mm hollow walls of two half brick skins with and including wire butter fly ties at a rate of 10no. per square metre.	m2	35	
<b><u>BRICKWORK IN SUPERSTRUCTURE</u></b>				
<b><u>14MPa nominal compressive strength Imperial NFX loadbearing perforated plaster brick, size 222 x 73 x 106mm, manufactured in accordance with SANS 227:2007, laid in superstructure walls to single storey building and bedded and jointed in Class I mortar. Mortar in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in mortar Class 1 to be mixed to the ratio of 1 part cement : 4 parts sand, (sand to conform to SANS 1083:2006) to highly stressed masonry, incorporating high structural units.</u></b>				
2	Half brick walls in beamfilling.	m2	47	
3	Half brick walls.	m2	65	
4	One brick walls.	m2	1,208	
5	380mm Brick walls	m2	32	
6	330mm hollow walls of two half brick skins with and including wire butter fly ties at a rate of 5no. per square metre.	m2	149	
7	220mm Brick walls in bricking up openings where windows and doors removed.	m2	4	
8	380mm Brick walls in bricking up openings where windows and doors removed.	m2	9	
<b><u>SANDSTONE ETC WALL LININGS ETC</u></b>				
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**Allow the Prime cost amount of R900/m2 for supply and delivery of 600 x 300 x 110mm thick sandstone wall linings**

1	Approved sandstone wall linings 600 x 300 x 110mm thick square edge in cement mortar finished fair and pointed both sides as described.	m2	43
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2	Approved sandstone wall linings 220 x 73 x 105mm thick square edge in cement mortar finished fair and pointed both sides as described.	m2	49
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## SANDSTONE WALLS

3	Extra over brick walls for sandstone facings externally size 220 x 73 x 105mm Wide in cement mortar finished fair and pointed both sides as described.	m2	930
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4	115 x 230 mm Projection sandstone facings projection externally in cement mortar finished fair and pointed both sides and face as described.	m	114
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5	Closing 110mm cavity of hollow wall vertically with one course of sandstone brickwork.	m	6
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6	165 x 160mm Sandstone lintel in cement mortar finished fair and pointed both sides as described.	m	94
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7	165 x 160mm Sandstone cill with 115mm wide x 10mm deep rebate along length and with window width, splayed and filleted rebate, in cement mortar finished fair and pointed both sides as described.	m	70
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8	165 x 250 x 50/35mm Sandstone capping with drip groove along 165mm edge, in cement mortar finished fair and pointed both sides as described.	No	30
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## BRICKWORK SUNDRIES

9	Splayed mortar fillet one course high in 110mm cavity	m	39
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## CONCRETE

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>15MPa/19mm concrete</u></b>				
1	Infill to 60mm wide cavities of 280mm brick walls in foundations.	m3	3		
2	Infill to 110mm wide cavities of 330mm brick walls in foundations.	m3	4		
	<b><u>Brickwork reinforcement:</u></b>				
3	75mm Wide reinforcement built in horizontally.	m	343		
4	150mm Wide reinforcement built in horizontally.	m	6,428		
5	Ditto, but in foundations (Provisional).	m	6,040		
	<b><u>Prestressed fabricated lintels:</u></b>				
6	110 x 75mm Lintels in lengths not exceeding 3m.	m	152		
	<b><u>Turning pieces:</u></b>				
7	100mm Wide turning piece to lintels etc.	m	105		
8	200mm Wide turning piece to lintels etc.	m	16		
	<b><u>Galvanised wire ties etc:</u></b>				
9	4mm Diameter roof tie 2m girth bent double, with one end built into brick/blockwork and other end fixed to timber.	No	142		
	<b><u>Cramps, ties, etc:</u></b>				
10	30 x 2mm Galvanized door frame tie 350mm long with one end fixed to timber and other built into brickwork or concrete.	No	384		
11	30 x 2mm Galvanized brick tie 350mm long with one end fixed to existing brick wall and other built into brickwork or concrete.	No	16		
	Carried to Collection			R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc:</u></b>				
1	10 x 175mm Wide sills set flat and slightly projecting.	m	22		
	<b><u>Sundries:</u></b>				
2	Building ends of timber beams into brick walls and caulk with cement mortar.	No	7		
	<b><u>Plain Coping bedded and jointed in Class II mortar and pointed on all exposed faces.</u></b>				
3	300 x 85mm Thick precast concrete coping to top of 220mm brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	8		
4	410 x 85mm Thick precast concrete coping to top of 330mm brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	39		
	<b><u>Air bricks etc:</u></b>				
5	220 x 160 x 50mm Cement vermin proof grey air brick.	No	12		
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 4</u></b>				
<b><u>WATERPROOFING</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 120				
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer of 375 micron embossed damp proof course</u></b>				
1	In walls	m2	116	
<b><u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u></b>				
2	Under surface beds	m2	852	
<b><u>4mm "Derbigum SP" waterproofing</u></b>				
3	On flat roofs	m2	73	
Carried to Collection				R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Additional membrane at 110mm diameter outlet	No	22		
	<b><u>PROTECTIVE STONE DRESSING</u></b>				
	<b><u>19mm Crushed stone dressing evenly spread with larger stones around outlets</u></b>				
2	80mm Thick on waterproofing to flat roofs	m2	41		
	<b><u>JOINT SEALANTS, ETC</u></b>				
	<b><u>Sealing around window frames</u></b>				
3	Expandite Sealastic gun applied sealing compound in joint sealing and pointing all round external window frames	m	334		
Carried to Collection					R
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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 5</u></b>			
<b><u>ROOF COVERINGS, ETC</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Fixing</u></b>			
Fixing shall be done according to SABS 1200HB with minimum 225mm end laps			
<b><u>Guarantee</u></b>			
The contractor will be required to provide a written guarantee, stating that :			
1. The roof sheeting is of the specified thickness			
2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 124			
Carried to Collection			R
Section No. 3 - New Works Bill No. 5 Roof Coverings, Etc CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>EXISTING PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>Existing average 0,80mm thick ISQ300 Z275 spelter galvanised steel roof sheeting with painted finish to one side fixed to timber purlins or rails at 1100mm centres</u></b>			
1	Examine existing sheet iron roofing sheets, ridges, hips, valleys, etc. for leaks, holes, etc. and make good including securing purlins with approved purlin fasteners and tapping down/replacing roof screws, etc. and leaving roof completely weatherproof.	m2	622	
	<b><u>NEW PROFILED METAL SHEETING</u></b>			
	<b><u>Corrugated 0,58mm thick ISQ300 Z275 spelter galvanised steel roof sheeting fixed to timber purlins or rails (elsewhere measured) at 1100mm centres with and including 63 mm tex or top speed screws incorporating 19 mm bonded washers.</u></b>			
2	Roof covering with pitch not exceeding 25°	m2	31	
	<b><u>0,58mm Thick standing seam profile interlocking roof sheeting with approved colour finish one side and standard grey backing coat, fixed to timber intermediate purlins at 800mm centres, ridge purlins at 800mm from intermediate purlins and eaves purlins at 800mm from intermediate purlins using 1,15mm thick approved clips secured to purlins at 407mm centres with 2No. 65mm ring shank nails, all in accordance with manufacturer's recommendations.</u></b>			
3	Roof covering with pitch not exceeding 10°	m2	639	
	<b><u>0,8mm Nominal thickness ditto, but flashings:</u></b>			
4	Roll top ridge, girth 462mm, fixed in accordance with manufacturer's specifications.	m	6	
5	Extra over for junction of ridge with two hips.	No	2	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Extra on last, for closed end.	No	2		
2	Roll top hip, girth 462mm, fixed in accordance with manufacturer's specifications.	m	8		
3	Extra on last, for closed end.	No	2		
4	Gable/barge flashing, girth 462mm, fixed in accordance with manufacturer's specifications.	m	290		
5	Valley flashing, girth 462mm, fixed in accordance with manufacturer's specifications.	m	12		
6	Sidewall flash, girth 308mm, fixed in accordance with manufacturer's specifications.	m	15		
7	Counter flash, girth 154mm, fixed in accordance with manufacturer's specifications.	m	15		
<b><u>INSULATION</u></b>					
8	Approved Heavy duty, durable, double sided, reflective foil laminate incorporating advanced fire retardant properties, tested for conformance with SANS 1381-4:2009, with a Class 1 fire rating in accordance with SANS 10177 - 3:2005, ASTM E84 and BS 476 part 5, 6 and 7, laid under purlins on top of rafters; overlapped longitudinally by 150mm with overlap ends taped; on and including 1.6mm galvanised straining wire spaced at 275mm; all in accordance with the manufacturers specifications.	m2	639		
Carried to Collection					R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 6</u></b>			
<b><u>CARPENTRY AND JOINERY</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Roof trusses</u></b>			
The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate			
<b><u>Joinery</u></b>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>Fixing</u></b></p> <p>All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p>Where items are described as "bolted" the bolts have been measured elsewhere</p> <p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 126</p> <p><b><u>ROOFS, ETC</u></b></p> <p><u>Prefabricated roof trusses:</u></p> <p>Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.</p> <p>The truss system shall be designed by an Engineer and the Contractor shall complete and submit a certificate of confirmation. This certificate will state that the trusses have been designed, manufactured and erected in accordance with the relevant SABS code. The details of the registered engineer certifying this will appear on the certificate</p> <p>Prices must include for all cross and windbracing according to the manufacturer's instruction.</p> <p>Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.</p>			
Carried to Collection		R	
<p>Section No. 3 - New Works Bill No. 6 Carpentry And Joinery CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Pre-fabricated timber roof trusses shall comply with the requirements of SANS Specification 0163 and 0160 and to be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.</p> <p>Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.</p> <p>The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.</p> <p>In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.</p>			
Carried to Collection		R	
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements:</p> <p>(a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction.</p> <p>(b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services.</p> <p>(c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work.</p> <p>(d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.</p> <p>The following minimum information shall be shown on the drawings:</p> <p>(a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.</p> <p>(b) Bracing as recommended by the Institute for Timber Construction.</p> <p>(c) Sizes and grading of the timber components.</p> <p>(d) Truss sizes, e.g. height of ridge or angle of pitch.</p> <p>(e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).</p>			
Carried to Collection		R	
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
(f) Seperate connection details for hip, valley and jack rafters.			
(g) Maximum spacing for purlins and brandering to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.			
(h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:  "The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".			
<u>Joinery:</u>  Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc.  Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.			
<u>Fixing:</u>  All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.  Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
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Item	Quantity	Rate	Amount
Where items are described as "bolted" the bolts have been measured elsewhere.			
<u>The following trusses shall be approved engineering designed roof trusses manufactured from sawn softwood and suitable for corrugated iron covering and gypsum plasterboard ceilings on 38 x 50mm softwood brandering</u>			
<u>(NOTE :The contractor will be required to provide a certificate of approval signed by a registered engineer certifying that the trusses have been designed, manufactured and installed in accordance with the relevant SABS specifications)</u>			
<b>ROOFS, ETC</b>			
<u>Sawn softwood</u>			
<u>Plate nailed timber roof truss construction.</u>			
<u>The following budgetary allowances are for work to be executed by the Contractor</u>			
1 Provide the amount of R755,000.00 (Seven Hundred and Fifty Five Thousand Rand) for the manufacturing and supply, of roof trusses, bracing, etc. measuring approximately 670m2 on plan	Item		755,000.00
2 Labour on above for hoisting in place and fixing of roof trusses, bracing, etc.	Item		
<u>Sawn softwood grade 4</u>			
3 50 x 76 mm Purlins in repairs to existing structure.	m	74	
4 38 x 114 mm Rafters in repairs to existing structure.	m	74	
5 38 x 50mm Bearer eaves ceiling support (Provisional) plugged to walls with and including approved brass screws at 500mm centres	m	163	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	38 x 114mm Bearer fascia support (Provisional) fixed between rafters feet with and including approved hurricane clips.	m	427	
	<b><u>Laminated S. A. pine</u></b>			
2	50 x 250mm beam.	m	20	
	<b><u>EAVES, VERGES, ETC</u></b>			
	<b><u>Pressed fibre cement</u></b>			
3	12 x 225mm Fascias boards drilled and brass screwed to and including 38 x 50 x 114mm long SAP cleats screwed to rafter feet including galvanised steel H-profile jointing strips between lengths	m	427	
4	Extra on last for apex mitre	No	38	
	<b><u>SKIRTINGS</u></b>			
	<b><u>Wrought softwood</u></b>			
5	Approved pine skirting, size 25mm x 150mm high, with approved profile to one edge, plugged and countersunk screwed and pelleted to wall at 400mm centres, with and including hardwood quadrant, size 19 x 19mm planted on at 400mm centres. All joints and corners to be mitred, all installed to manufacturers specifications.	m	443	
	<b><u>WINDOWS</u></b>			
	<b><u>Wrought meranti windows</u></b>			
6	Type H purpose made top hung window 533 x 654mm high	No	12	
	<b><u>EXISTING TIMBER WINDOWS</u></b>			
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CLARENCE BOBIE INCORPORATED				



**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT**  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Service existing timber sash windows.</u></b>				
1	Service existing timber sash window size 1000 x 975 mm by replacing or repairing all damaged sash fasteners, sash lifts, sash rollers, nylon guides, guidelines etc. including replacing all damaged stiles and transoms, top and bottom rebated and grooved rails, cills, glazing beads etc. and easing all opening sections leaving window fully operational and functional.	No	1		
2	Service existing timber sash window size 600 x 1800 mm by replacing or repairing all damaged sash fasteners, sash lifts, sash rollers, nylon guides, guidelines etc. including replacing all damaged stiles and transoms, top and bottom rebated and grooved rails, cills, glazing beads etc. and easing all opening sections leaving window fully operational and functional.	No	1		
3	Service existing timber sash window size 1150 x 1800 mm by replacing or repairing all damaged sash fasteners, sash lifts, sash rollers, nylon guides, guidelines etc. including replacing all damaged stiles and transoms, top and bottom rebated and grooved rails, cills, glazing beads etc. and easing all opening sections leaving window fully operational and functional.	No	23		
	<b><u>EXISTING TIMBER DOORS, ETC</u></b>				
	<b><u>Servicing of existing external doors</u></b>				
4	Service existing solid external single doors and frames average door size 825 x 2 100 mm high by, neatly glueing in timber where door damaged, servicing existing hinges and easing door, leaving door and frame in perfect working order. (New lock sets and new hinges elsewhere measured)	No	11		
	Carried to Collection			R	
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Item		Quantity	Rate	Amount
<b><u>Servicing of existing internal doors</u></b>				
1	Service existing solid and semi solid internal single doors and frames average door size 825 x 2 092 mm high by, neatly glueing in timber where door damaged, servicing existing hinges and easing door, leaving door and frame in perfect working order. (New lock sets and new hinges elsewhere measured)	No	6	
<b><u>DOORS ETC</u></b>				
<b><u>ANTI BANDIT DOORS</u></b>				
2	Level G1 bullet resistant anti-bandit door with 100 x 50 x 2mm gauge mild steel frame, overall size 930 x 2095mm high in Sapele veneer with 250 x 500mm high viewing panel glazed in 28mm thick clear glass supplied with 5-pin CISA dead lock with an additional light duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, continuous roton type hinge, aluminium slam bar with an approved light duty door closer and D-style pull handles.	No	1	
<b><u>Solid flush doors with 3,2mm standard hardboard covering on both sides and concealed edges hung to timber frames</u></b>				
3	44mm Single door size, 813 x 2032mm high all as per Architects Detail "Door Type H" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No	8	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Wrought meranti doors hung to timber frames</u></b>			
1	44 mm Framed, ledged and braced door, size 813 x 2 032 mm high of 44 x 108 mm top rail and stiles, 22 x 220mm middle ledge and bottom rail, 19 x 108mm braces, filled in with 22 x 70mm tongue and groved V-jointed one side boarding and covered on other side with 3 mm plywood with veneer to match door let into and including rebates all round as per Architects Detail (Type F) attached to the back of the Bills of Quantities. (All door furniture elsewhere measured)	No 5		
2	44 mm Framed, ledged and braced door, size 914 x 2 032 mm high of 44 x 108 mm top rail and stiles, 22 x 220mm middle ledge and bottom rail, 19 x 108mm braces, filled in with 22 x 70mm tongue and groved V-jointed one side boarding and covered on other side with 3 mm plywood with veneer to match door let into and including rebates all round as per Architects Detail (Type G) attached to the back of the Bills of Quantities. (All door furniture elsewhere measured)	No 2		
3	44mm Solid Meranti hardwood horizontal slatted single door, size 813 x 2 032mm high overall, all as per Architects Detail "Door Type K" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No 24		
4	44mm Solid Meranti hardwood horizontal slatted single door, size 813 x 2 032mm high overall, all as per Architects Detail "Door Type P" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No 4		
	Carried to Collection		R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	44mm Solid Meranti hardwood four panel single door, size 813 x 2 032mm high overall, all as per Architects Detail "Door Type R" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No	1		
2	44 mm Framed, ledged and braced double door 1 612 x 2 032 mm high with rebated meeting stiles and glass pane top, each leaf of 44 x 146 mm top rail and stiles, 22 x 146 mm middle ledge and braces and 22 x 222 mm bottom rail filled in with 22 mm V-jointed one side boarding and covered on other side with 3 mm plywood with veneer to match door let into and including rebates all round all as per Architects Detail "Door Type J" attached to the back of the Bills of Quantities. (Ironmongery elsewhere measured)	No	4		
<b><u>FRAMED FRAMES ETC</u></b>					
<b><u>Wrought meranti</u></b>					
3	76 x 50mm Rebated framed frame	m	251		
4	220 x 19 mm Door liner jamb plugged	m	15		
5	120 x 19 mm Door architrave plugged	m	31		
<b><u>BEADS, ARCHITRAVES, ETC</u></b>					
<b><u>Wrought meranti</u></b>					
6	19mm Quadrant moulding planted on	m	53		
7	32 x 44mm Weather boards including rebates in doors	m	24		
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>NOTICE BOARDS, KEYBOARDS, DUCKBOARDS, ETC</u></b>			
1	Key cabinet type KEY01 445 x 580 x 105 mm deep overall plugged and screwed to wall, of 16 mm "Melawood" melamine faced chipboard sides, top and bottom, 19 x 32 mm wrought meranti frame, 22 mm blockboard backboard with hardwood veneer and 16 mm "Supawood" door 400 x 534 mm high (ironmongery elsewhere)	No	2	
	<b><u>JOINERY FITTINGS</u></b>			
	<b><u>Foyer</u></b>			
2	Lightly sand the entire notice board in finer grades of sand paper until all marks are removed and the solid timber members are clean and smooth. Apply two coats of matt polyurethane varnish, lightly sanding between coats, approximate overall size 800 x 800mm high.		Item	
3	Lightly sand the entire pin board frame in finer grades of sand paper until smooth. Apply two coats of universal undercoat and two coats plascon eggshell enamel paint (colour white), approximate overall length 7200mm not exceeding 150mm girth		Item	
	<b><u>Lobby</u></b>			
4	Lightly sand the entire notice board in finer grades of sand paper until all marks are removed and the solid timber members are clean and smooth. Apply two coats of matt polyurethane varnish, lightly sanding between coats, approximate overall size 1200 x 1200mm high.		Item	
	<b><u>Security Control Room</u></b>			
5	Cash hall writing counter 5500 x 750mm wide (Refer to drawing 1052/50-22 Detail 45)	No	1	
	Carried to Collection		R	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Cash hall fittings</u></b>				
1	Table 1,802 x 0,850m wide (Refer to drawing 1052/50-21)	No	8	
2	Cash hall writing counter 3 000 x 300mm wide (Refer to drawing 1052/50-22 Detail 45)	No	1	
3	4,850mm Long on elevation Cash hall counter, writing counter and 28mm bullet resistant glass into aluminium frame complete (Refer to drawing 1052/50-22 detail 44)	No	1	
4	"Mutual Austen Safes" or similar approved 135mm deep stainless steel bank type transfer tray let into 32mm post formed Oak counter top	No	3	
<b><u>Accused stand</u></b>				
5	4,000m Long Accused stand unit complete (Refer to drawing 1052/50-19 Detail 41)	No	1	
6	2,770m Long Accused stand unit complete (Refer to drawing 1052/50-20 Detail 42)	No	1	
7	Dividing wall extended from accused complete (Refer to drawing 1052/50-20 Detail 42)	m	5	
8	Extra over dividing wall for access door complete (Refer to drawing 1052/50-20 Detail 42)	No	2	
<b><u>Public seating benches</u></b>				
9	1,650m Long Bench complete including varnish (Refer to drawing 1052/50-17)	No	5	
10	2,40m Long Bench complete including varnish (Refer to drawing 1052/50-17)	No	6	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Public waiting benches</u></b>				
1	1,540mm long slatted bench with backrest (Refer to drawing 1020/50-02)	m	3		
2	2,040mm long slatted bench with backrest (Refer to drawing 1020/50-02)	m	6		
	<b><u>Magistrates benches</u></b>				
3	4,284m Wide desk unit complete (Refer to drawing 1052/50-14 and 15)	No	1		
4	7,290m Wide desk unit complete (Refer to drawing 1052/50-18)	No	1		
5	"Mutual Austen Safes WL3 " or similar approved 295 X 250mm stainless steel records type safe bolted to floor with 4 x M16 rawl bolts	No	2		
	<b><u>Witness stand</u></b>				
6	1,666m Wide witness stand complete (Refer to drawing 1052/50-16 Detail 35)	No	2		
	<b><u>Courtroom tables</u></b>				
7	Table 1,660 x 0,750m wide (Refer to drawing 1052/50-16 Detail 34)	No	4		
8	L-Shaped Lectern table 3,690mm x 1,464mm x 0,750m wide complete (Refer to drawing 1052/50-12)	No	1		
	<b><u>Book shelving</u></b>				
9	Book shelving unit 2100 x 380mm deep x 1200mm wide (Refer to drawing 1052/50-13 Detail 29)	No	9		
10	Book shelving unit 2100 x 450mm deep x 1200mm wide (Refer to drawing 1052/50-13 Detail 30)	No	15		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Acoustic Panelling</u></b>				
1	Framed Acoustic Panel size 1,542m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
2	Framed Acoustic Panel size 4,284m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
3	Framed Acoustic Panel size 4,330m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
4	Framed Acoustic Panel size 4,920m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
5	Framed Acoustic Panel size 5,790m x 3.000m High fixed to walls (Refer to drawing 1052/50-27)	No	1		
	<b><u>Ablution Fittings</u></b>				
6	3,572m x 0,615m wide Basin vanity (Refer to drawing 1052/50-09 Detail 26)	No	2		
7	1,810m x 0,615m wide Basin vanity (Refer to drawing 1052/50-11 Detail 22)	No	2		
8	2,425 x 0.700m wide Baby change counter (Refer to drawing 1052/50-01 Detail 2)	No	1		
	<b><u>Security and SOS</u></b>				
9	Security desk, including shop fronts to sides of turnstiles, cladding finish to brick wall, worktop and sub frame, security panel frames, frameless safety glass and lower level bulkheads (Refer to drawing 1052/50-23, 24 and 25)				
	(Turnstiles, metal detector, x-ray scanner, disabled door and sidelights elsewhere measured)	No	1		
10	1,859 x 0.600m deep Office cabinet (Refer to drawing 1052/50-09 Detail 17)	No	4		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Book shelving unit 2100 x 450mm deep x 2000mm wide (Refer to drawing 1052/50-13 Detail 30)	No	4		
	<b><u>Magistrates Offices</u></b>				
2	1,700 x 0.600m deep Toilet cabinet (Refer to drawing 1052/50-09 Detail 13)	No	2		
3	3,062 x 0.600m deep Office cabinet (Refer to drawing 1052/50-09 Detail 16)	No	2		
4	1,400 x 0.600m deep Kitchen cupboard including 0.7m x 0.45m deep microwave shelf (Refer to drawing 1052/50- 09 Detail 56)	No	2		
5	1,200 x 0.600m deep Wardrobe (Refer to drawing 1052/50-09 Detail 12)	No	2		
	<b><u>Kitchenette</u></b>				
6	L-Shaped kitchen cupboard 1,833mm x 1,461mm x 0,600m wide complete (Refer to drawing 1052/50-11 Detail 21)	No	1		
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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 7</u></b>			
<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Descriptions</u></b>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 129			
<b><u>CEILINGS, ETC</u></b>			
<b><u>NAILED UP CEILINGS</u></b>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>4mm Thick fibre cement plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, fixed to 38 x 50mm battens</u></b>			
1	Ceilings consisting of 38 x 50mm battens fixed to timber tie beams at 400mm centres, ceiling boards fixed to battens using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered with and including 8 x 40mm wrought meranti cover strips, all in accordance with the manufacturer's recommendations.	m2	319	
2	Raked ceilings consisting of 38 x 50mm battens fixed to timber tie beams at 400mm centres, ceiling boards fixed to battens using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered with and including 8 x 40mm wrought meranti cover strips, all in accordance with the manufacturer's recommendations.	m2	124	
3	Extra over ceiling for opening for 900 x 900mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc	No	8	
	<b><u>SUSPENDED CEILINGS</u></b>			
	<b><u>Vinyl cladding lay-in grid ceiling system with 595 x 595 x 6mm thick straight edged Embossed White vinyl clad tiles, laid on double stitched slotted 38 mm white main tees at 600mm centres and white 38 mm cross tees at 600 mm centres, including all necessary grids, suspension plates, clips and holding down clips, fire expansion punch outs to main tees, etc. Suspend main tees using approved Pre-stretched Galvanised Hanger wire 2.5mm thick or approved hanger strap 19mm at 1200mm centres fixed to timber rafters at not exceeding 1 200 mm centres. Ceiling perimeter to be finished with white recessed wall angles, all in accordance with the manufacturer's recommendations.</u></b>			
4	6mm Ceilings suspended not exceeding 1 000 mm below timber trusses.	m2	225	
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Item		Quantity	Rate	Amount
1	Forming side of horizontal bulkheads, size 250mm deep, suspended not exceeding 1 000 mm below timber trusses.	m	64	
<b><u>EAVES, VERGES, ETC.</u></b>				
<b><u>6mm thick fibre cement plain ceiling boards, manufactured in accordance with SANS 9001:2000 carrying SANS 803:2005 mark, fixed to 38 x 50mm battens</u></b>				
2	Eaves , Verges and Verandah Ceilings consisting of 38 x 50mm battens fixed to timber tie beams at 450mm centres, ceiling boards fixed to battens using 32 x 2,5mm serrated ceiling nails at 150mm centres, minimum of 12mm from edge of board. All joints to be covered with and including 8 x 40mm wrought meranti cover strips, all in accordance with the manufacturer's recommendations.	m2	193	
<b><u>Gypsum plasterboard cornice</u></b>				
3	125mm Cove consisting of a fire resistant gypsum plaster core encased in special paper, nailed with galvanised nails at 300mm centres to the wall and at 450mm centres through the board into the bracker. The head of the nail must not break the paper of the cove.	m	361	
4	Hardwood standard skirting as cornice, size 19 x 76mm plugged and countersunk screwed and pelleted to wall at 400mm centres at intersection of slabs .	m	202	
<b><u>RAISED ACCESS FLOORING</u></b>				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Steel stud partitioning with firestop board on both sides and fibreglass blanket between (1 hour fire rating)</u></b>			
1	1hr fire rating (A) partitioning system comprising steel studding formed of 63,5mm top and bottom tracks with vertical studs at maximum 600mm centres, friction fitted or pop riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with 12,5mm Fire stop Taper edge boards screwed to studding with "Drywall" screws at maximum 220mm centres. Boards are to be butt jointed and finished with "Fibatape" and "Rhinoglide" jointing compound all in accordance with the manufacturer's instructions. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape etc.  In cavity install 63mm thick self-supporting non-combustible lightweight, glass tissue faced Glasswool 'cavitybatt insulation,' offering a thermal resistance value of 1.66m <sup>2</sup> K/W for heat and acoustic control. Install strictly in accordance to manufacturers specifications.	m2	170	
	<b><u>NATURAL ANODISED ALUMINIUM</u></b>			
2	Extra over partition for aluminium vertical abutment	m	45	
3	Extra over partition for aluminium corner	m	10	
4	Extra over partition for aluminium T-intersection	m	24	
5	Extra over partition for aluminium channel profile size, 63,5 x 30 x 2 mm thick around reveals of door and window openings to receive aluminium door and window frames.	m	35	
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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 8</u></b>			
<b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Cleaning</u></b>			
Rates for floor covering shall include for stripping and proper cleaning on competion			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 130			
<b><u>FLOOR COVERINGS</u></b>			
<b><u>VINYL FLOOR TILES</u></b>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Approved semi flexible vinyl floor tiles, size 300 x 300 x 2.5mm thick, manufactured in accordance with SANS 581, laid in approved acrylic adhesive spread with a trowel fitted with an A2 notched blade at a rate of between 5.5m² and 6.5m² per litre on suitably prepared sub floor (elsewhere specified) in accordance with SANS 10070, using approved Self Leveller when required and rolled with 68kg three section metal roller on completion.</u>			
1	On smooth screeded floors.	m2	274	
	<u>Approved, size 608 x 608 x 2mm directional static dissipative vinyl tile laid in approved antistatic/conductive adhesive spread with a notched trowel on suitably prepared cement screed (elsewhere measured) with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u>			
2	On floors	m2	27	
	<u>Approved 2mm Thick fully flexible vinyl sheeting with welded joints, laid in an approved adhesive spread with a notched trowel on suitably prepared cement screed (elsewhere measured) using approved self leveller when required, with a hygrometer reading showing a moisture content of less than 70% and rolled with 68kg articulated floor roller, all in accordance with manufacturer's recommendations.</u>			
3	On floors	m2	130	
	<b><u>POLISH, SEALERS, ETC</u></b>			
	<u>Scrub down with neutral detergent complying with SABS 825 and three coats water based floor dressing complying with SABS 1042 to:</u>			
4	Vinyl floor tiling.	m2	430	
	<b><u>CARPETING</u></b>			
	<b><u>Carpet Tiles</u></b>			
Carried to Collection				R
Section No. 3 - New Works				
Bill No. 8				
Floor Coverings, wall linings, etc.				
CLARENCE BOBIE INCORPORATED				

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

[illegible]

Section 3

Bill No. 8

Floor Coverings, wall linings, etc.

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 9</u></b>			
<b><u>IRONMONGERY</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Finishes to ironmongery</u></b>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list			
BS			Satin bronze lacquered
CP			Chromium plated
SC			Satin chromium plated
SE			Silver enamelled
GE			Grey enamelled
AS			Anodised silver
AB			Anodised bronze
AG			Anodised gold
ABL			Anodised black
PB			Polished brass
PL			Polished and lacquered
PT			Epoxy coated
SD			Sanded
Carried to Collection			R
Section No. 3 - New Works			
Bill No. 9			
Ironmongery			
CLARENCE BOBIE INCORPORATED			

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Item	Quantity	Rate	Amount
<b><u>Fixing</u></b>			
Descriptions of wall mounted and floor standing ironmongery items shall be deemed to include for fixing in position and all fixing accessories			
Descriptions of proprietary items shall be deemed to include fixing in position and all fixing accessories as specified by the manufacturer			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 132			
<b><u>HINGES, BOLTS, ETC</u></b>			
<b><u>"Dorma or similar approved" ironmongery</u></b>			
1	DBB-SS-009 102 x 75 x 3mm stainless steel two ball bearing butt hinge	No 207	
2	DFB-SC-180/150 150mm Satin Chrome flush bolt with heel	No 26	
3	TS71/EN3-4 standard arm door closer - non hold open	No 18	
4	TS73V EN2-4 variable spring strength regular arm door closer	No 14	
5	TS73N/EN3-4 parallel arm door closer - DELAYING CLOSING - push side fitting	No 22	
6	BTS75R/EN2-5 Single action hold open floor spring complete with stainless steel cover plate 7411/56 bottom strap 7481 cover cap (handed) 7411K/56 top centre with 7483 cover caps for timber doors	No 8	
<b><u>LOCKS</u></b>			
7	DPL 1000 47mm Padlock MKD	No 12	
Carried to Collection			R
Section No. 3 - New Works Bill No. 9 Ironmongery CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	D032D bathroom/WC dead lock SS	No	9	
2	D036S euro-profile cylinder sash lock SS	No	56	
3	D038R Rebate conversion kit for euro-profile locks SS	No	4	
4	DDC056501 NP 65mm five pin euro-profile double cylinder	No	56	
5	DWC-006 SS WC indicator with 79mm turn knob for physically impaired	No	2	
<b><u>HANDLES</u></b>				
6	CB75 lever handle on rectangular Euro cylinder backplate, 61mm centres	No	112	
7	DPH301C 150 x 19mm stainless steel "D" shaped straight bolt through pull handle	No	18	
8	DPH213 350 x 32mm stainless steel "D" shaped straight back-to-back pull handles	No	4	
<b><u>CATCHES, CABIN HOOKS, ETC</u></b>				
9	"Halstead" 166 cabin hook 150mm	No	9	
10	"Halstead" 401 floor mounted door holder	No	52	
11	DCE-002 SS euro-profile escutcheon	No	112	
12	DHC-SS-031B SS hat and coat hook with rubber buffer	No	26	
13	DJW Concealed fixing black rubber doorstop fitted to wall or floor	No	9	
14	"HOWICK" H057 Aluminium Robe hook	No	26	
Carried to Collection				R
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**ADDITIONAL ACCOMMODATION**

<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>SUNDRIES</u></b>				
1	10 x 100mm Long dowels let half way into timber frames and fixed to concrete floors	No	94		
2	3 x 25mm Brass dividing strip	m	58		
3	DSS1 "Male" pictogram on 76mm diameter stainless steel plate	No	2		
4	DSS2 "Female" pictogram on 76mm diameter stainless steel plate	No	2		
5	DSS-135 stainless steel 150 x 150mm TEA CUP sign	No	1		
6	DSS3 "MALE/FEMALE" pictogram on 76mm diameter stainless steel plate	No	2		
7	DSS4 "Wheelchair" pictogram on 76mm diameter stainless steel plate	No	2		
8	DKP-22-164 300 x 150 x 1,2mm blank polished stainless steel push plate	No	49		
9	914 x 300 x 1,2mm blank polished stainless steel kick plate	No	4		
	<b><u>BATHROOM FITTINGS (SANS APPROVED)</u></b>				
10	Grade 304 32mm diameter 18/10 stainless steel grab rails with fine grip, size 550mm x 95mm deep, plugged and screwed to the wall with stainless steel screws.	No	4		
11	32mm diameter Grade 304 18/10 stainless steel cistern back grab rail, size 750 x 206mm wide with Fine Grip surface, plugged and screwed to the wall with stainless steel screws.	No	4		
	Carried to Collection			R	
	Section No. 3 - New Works				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	32mm diameter Grade 304 18/10 stainless steel angle bars, size 256 x 618 x 95mm deep with Fine Grip surface, plugged and screwed to the wall with stainless steel screws.	No 4		
2	Standard stainless steel lockable two roll toilet paper dispenser	No 14		
3	Franke or similar approved 1,2mm Grade 304 18/10 stainless steel recessed type toilet roll holder (Code:2120037), size 155mm diameter x 260mm deep, unit recessed into wall and bolted with 2No. M10 threaded bolts.	No 3		
4	Standard stainless steel paper towel dispenser	No 18		
5	Standard stainless steel soap dispenser	No 12		
6	Stainless steel sanitary bin with double flip lid, removable cartridge, disposable insert and locking mechanism, overall size 180 x 345 x 520mm high plugged and screw to wall with stainless steel screws.	No 4		
7	Standard vanity shelf to disabled toilet	No 4		
8	600 x 600 x 0.9mm Thick bright annealed mirrored stainless steel wall mirror, plugged and screwed to walls with chromed screws with and including screw caps	No 21		
	<b><u>Venetian Blinds</u></b>			
9	0.60 x 0.60m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No 2		
	Carried to Collection		R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	1.00 x 0.98m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	1		
2	0.60 x 1.80m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	1		
3	0.90 x 1.80m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	12		
4	1.15 x 1.80m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	23		
5	0.90 x 2.10m 25 mm Venetian blinds (standard colour range) complete with strong and flexible snapback slats, head and bottom rails and colour co-ordinated rail, cords and components fixed to wall in window and door reveals.	No	2		
<b><u>SIGNAGE</u></b>					
<b><u>Information Signs</u></b>					
6	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Male" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Female" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
2	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Male & Female" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
3	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Disabled" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	2		
4	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Tea Cup" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
5	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Electrical" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
6	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Telkom" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
7	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "Cleaner" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	1		
8	Approved engraved grade 304 Stainless Steel information sign, size 150 x 150 x 1,2mm with "No Entry" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6		
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Approved grade 304 Stainless Steel single sided landscape information sign, 450mm long x 80mm high with counter-sunk fixing holes plugged and screwed with aluminium screws to wall with bottom edge 2200 mm above floor level.	No	8		
2	Approved grade 304 Stainless Steel single sided landscape information sign, 600mm long x 80mm high with counter-sunk fixing holes plugged and screwed with aluminium screws to wall with bottom edge 2200 mm above floor level.	No	8		
3	Approved grade 304 Stainless Steel single sided landscape information sign, 800mm long x 80mm high with counter-sunk fixing holes plugged and screwed with aluminium screws to wall with bottom edge 2200 mm above floor level.	No	6		
4	Approved grade 304 Stainless Steel single sided landscape information sign, 600mm wide x 300mm high, suspended from ceiling with stainless steel cables 2200mm above finished floor level.	No	8		
5	Approved grade 304 Stainless Steel single sided landscape information sign, 600mm wide x 450mm high, suspended from 63mm stainless steel round tube with stainless steel cables 1000mm above ground level.	No	4		
<b><u>Escape Signs</u></b>					
6	Approved photo luminescent escape route signage, size 290 x 290mm, in SABS 1186 certified ABS plastic, with natural anodized aluminium frame hung from ceiling with stainless steel chains or cables.	No	6		
7	Approved engraved grade 304 Stainless Steel escape sign size 150 x 150 x 1,2mm with "Man running right" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6		
Carried to Collection					R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Approved engraved grade 304 Stainless Steel escape sign, size 150 x 150 x 1,2mm with "Man running left" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	6		
	<b><u>Fire signs</u></b>				
2	Approved photo luminescent fire signage, size 290 x 290mm, in SABS 1186 certified ABS plastic, with natural anodized aluminium frame, drilled, plugged and screwed with non-corrosive screws.	No	11		
3	Approved engraved grade 304 Stainless Steel fire sign, size 150 x 150 x 1,2mm with "Fire hose reel" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	5		
4	Approved engraved grade 304 Stainless Steel fire sign, size 150 x 150 x 1,2mm with "Fire extinguisher" engraving with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	11		
	<b><u>Artwork to Signage</u></b>				
	<b><u>30mm High, approved non-reflective self adhesive material, all in accordance with SANS 1519, colour black "ARIAL" bold font in capital letters or numerals, fitted to stainless steel plates.</u></b>				
5	Four letters or numerals	No	3		
6	Five letters or numerals	No	3		
7	Six letters or numerals	No	2		
8	Seven letters or numerals	No	2		
9	Eight letters or numerals	No	5		
10	Nine letters or numerals	No	5		
Carried to Collection				R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Eleven letters or numerals	No	4		
2	Thirteen letters or numerals	No	3		
3	Fourteen letters or numerals	No	3		
4	Eighteen letters or numerals	No	3		
5	Nineteen letters or numerals	No	2		
6	Twenty letters or numerals	No	5		
7	Twenty One letters or numerals	No	2		
8	Twenty Two letters or numerals	No	2		
9	Twenty Four letters or numerals	No	2		
10	Twenty Five letters or numerals	No	3		
	<b><u>100mm High, approved non-reflective self adhesive material, all in accordance with SANS 1519, colour black "ARIAL" bold font in capital letters or numerals, fitted to stainless steel plates.</u></b>				
11	Twenty Five letters or numerals	No	1		
	<b><u>Welded signage support frames with one shop coat red oxide</u></b>				
12	63mm Diameter x 3mm thick mild steel hollow section post framework, 3,700mm long twice bent to form arch and fitted with 2(no) 150 x 150 x 8mm flange plate welded to bottom and embedded in 300 x 300 x 500mm mass concrete (15 MPa) base to protrude 50mm above ground level including all excavations and backfilling (total weight of framework = 19.50kg)	No	1		
Carried to Collection					R
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Section 3

Bill No. 9

Ironmongery

**COLLECTION**

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Item	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 10</u></b>			
<b><u>METALWORK</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>Descriptions</u></b>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork of concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<b><u>CPAP WORK GROUP</u></b>			
Unless otherwise stated all items in this bill will be Work Group 136			
<b><u>WELDED SCREENS, GATES, ETC</u></b>			
Carried to Collection			R
Section No. 3 - New Works Bill No. 10 Metalwork CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Purpose made burglar bars</u></b>			
1	Approved hot dip galvanised fixed external burglar guard, size 1400 x 800mm high comprising 25 x 25mm square tube frame, 12 x 12mm square tubing vertical bars and flights at maximum 100mm centres including all necessary extension pieces, flights, etc. fixed 100mm proud of wall with S37 coach bolts with snap-off nuts.	No	2	
	<b><u>Screenex or similar approved galvanised steel mesh overhead grilles (Refer to SAPS 5-Star drawing No. POL 2006/G1)</u></b>			
2	Horizontal Security screens, overall size 1700 x 1400mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
3	Horizontal Security screens, overall size 3000 x 5700mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
4	Horizontal Security screens, overall size 9500 x 3700mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
5	Horizontal Security screens, overall size 11000 x 1400mm complete, including angle iron frame, steel beam supports, bracket supports, etc. (Refer to drawing POL 2012/G1)	No	1	
	<b><u>SUNDRY METALWORK</u></b>			
	<b><u>"Vitrex System 2000" or similar approved</u></b>			
6	Approved 2,50 x 1,50m Standard enamelled magnetic whiteboard, complete with aluminium frame and fixing brackets, fixed to walls as per manufacturers specification	No	5	
	Carried to Collection			R
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	Bill No. 10			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Approved standard 2.5 x 1.5m pinning board, complete with aluminium frame and fixing brackets, fixed to walls as per manufacturers specification	No	16	
	<b><u>SABS approved</u></b>			
2	200 x 200 x 300mm Internal dimensioned handgun safe with 2-key lock system	No	4	
	<b><u>DUCT COVERS</u></b>			
	<b><u>Purpose made duct covers</u></b>			
3	494 x 3005mm High duct cover complete, including barrel bolt and keep (Refer to drawing 1052/50-06 (Duct screens detail 9)	No	2	
4	1194 x 3005mm High overall duct cover complete, including barrel bolt and keep (Refer to drawing 1052/50-06 (Duct screen detail 9)	No	1	
	<b><u>DOORS</u></b>			
	<b><u>Doors</u></b>			
5	Service and reuse existing strongroom door	No	1	
	<b><u>GATES</u></b>			
6	Access control Gate, size 925 x 2000mm High Single Gate complete with all necessary ironmongery (Refer to drawing 1052/50-05 access Controlled Gate)	No	4	
7	Security Gate, size 1070 x 2100mm High Single Gate with fixed screened fanlight size 1300 x 900mm high complete with all necessary ironmongery (Refer to drawing 1052/50-05 Gate 2)	No	2	
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Item		Quantity	Rate	Amount
<b><u>TURNSTILES</u></b>				
1	Turnstar Triumph or similar approved 4-arm single full height turnstile electrical bi-directional revolving turnstile, overall size 1400 x 2125mm high in UV resistant polyester exterior powder coated mild steel finish colour Grey with 50mm diameter tube arms and rotation locking mechanism and perpetual base bearing, bolted to 25MPa concrete surface beds with 12No. M12 x 75mm countersunk anchor bolts and connected to 220V AC single phase power supply.	No	2	
<b><u>ROLLER SHUTTER DOORS</u></b>				
<b><u>Galvanised steel roller shutter doors:</u></b>				
<u>Note: The contractor is to check on site measurements before placing of order.</u>				
2	Approved galvanised and powder coated fixed gearbox operated steel roller shutter for opening 3000 x 3000 mm high opening (min. Headroom 350mm) with 130mm (normal) wide on free side and 220mm wide (normal) on operator side, with 0,8mm thick slats, 75mm wide side guides, with crank handle (radius 325mm), with neoprene weather strip to bottom edge and two barrel bolts and with slatted canopy cover..	No	1	
<b><u>WINDOWS</u></b>				
<b><u>Safety glazed visitors windows</u></b>				
3	Type G Visitors panel 0,70 x 1,00m high, including 6,38mm laminated safety glass, complete	No	1	
Carried to Collection				R
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Metalwork				
CLARENCE BOBIE INCORPORATED				

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Cell steel windows</u></b>			
1	All prison windows are to be manufactured in accordance with the South African Police Services specifications and the Department of Public Works. Windows are to have a pressed metal surround. Internal and external security screens are to be included. Windows NEED NOT to be supplied with Manganese bars, prepared in accordance with given specifications. Steel cell window and frame size 850 x 940 mm high overall including internal and external fixed screens, mild steel lugs, glazing, padlocks, etc. as per Architects Window type F attached to the back of the Bills of Quantities.	No	10	
	<b><u>Hot dipped galvanised solid steel cell doors, grille gates and windows, all in accordance with SABS Specifications 763 - see PW 371 Section 13 Clause 13.1 to 13.3</u></b>			
2	All prison cell doors and grille gates are to be manufactured in accordance with the Department of Public Works specifications.  Solid steel door, frame and grille gate, overall size 1 018 x 2 020mm high as per standard SAPS project 5 star detail drawing no. POL 2012/D1, D2, D3, D4 & D5 installed strictly to manufacturers specification in 220mm thick solid brick walls as per Architects Door Type L attached to the back of the Bills of Quantities. (Locks by others)	No	3	
	<b><u>CELL DOOR AND GATE LOCKSETS</u></b>			
3	Allow the sum of R25,000.00 (Twenty Five Thousand Rand) for the Supply and Installation of cell locksets to be executed complete by a specialist subcontractor.	Item		25,000.00
4	Contractors profit and attendance on above item	Item		
	<b><u>STEEL, STRONG ROOM DOORS VENTILATORS, ETC</u></b>			
	Carried to Collection		R	
	Section No. 3 - New Works Bill No. 10 Metalwork CLARENCE BOBIE INCORPORATED			

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Item		Quantity	Rate	Amount
<b><u>Hot Dipped Galvanised Strong Room Doors etc suitable for 220mm walls fixed to brickwork or concrete:</u></b>				
1	Double ended strong room ventilator built into wall.	No	1	
<b><u>GALVANISED STEEL TRANSFORMER ROOM DOOR LOUVRED UNITS.</u></b>				
2	Approved Single steel transformer room unit door with 3x heavy duty brass hinges and mild steel louvre grey oxide primed, overall size 815 x 2032mm high, fixed in accordance to manufacturers recommendations, to suit wall 230mm thick.	No	1	
<b><u>STAIR LIFT</u></b>				
SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----				
3	Allow the sum of R630,000.00 (Six Hundred and Thirty Thousand Rand) for the Supply and Installation of stair lifts to be executed complete by a specialist subcontractor.		Item	630,000.00
4	Allow for profit.		Item	
5	Allow for attendance.		Item	
<b><u>ALUMINIUM</u></b>				
The contractor is to make due allowance in his prices for complying with the following requirements.				
Carried to Collection				R
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>General:</u></b></p> <p>All aluminium windows and door frames are to meet the recommended performance requirements of (Class designation A2) as set out by the Association of Architectural Aluminium Manufactures of South Africa, and proof of this is to be provided in the form of an AAAMSA performance certificate for each product.</p> <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p>			
Carried to Collection		R	
<p>Section No. 3 - New Works Bill No. 10 Metalwork CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>Tolerances:</u></b></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><b><u>Protection:</u></b></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><b><u>Cleaning:</u></b></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p>			
<p><b><u>ALUMINIUM WINDOWS, DOORS, ETC.</u></b></p>			
<p style="text-align: right;">Carried to Collection</p>		R	
<p>Section No. 3 - New Works Bill No. 10 Metalwork CLARENCE BOBIE INCORPORATED</p>			



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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Aluminium windows able to meet the mechanical performance requirements of SANS 613 for wind loads of up to 2000Pa with surfaces to receive 60-80µm Charcoal Grey powder coating (for architectural applications), supplied by a manufacturer complying with SANS 1578 and applied in accordance with SANS 1796 by an approved applicator, glazing shall be "Smartglass" or similar approved X1 Residential Standard 6.38mm thick laminated safety glass and executed strictly in conformance with glass manufacturer's recommendations and SANS 10137:2011 all in accordance with SANS 10400 Parts B, N, XA, fitted in accordance with Casement 36 system</u>			
1	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 1200 x 600mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type A" attached to the back of the Bills of Quantities.	No	12	
2	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 600 x 600mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type B" attached to the back of the Bills of Quantities.	No	2	
3	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 600 x 600mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type C" attached to the back of the Bills of Quantities.	No	8	
	Carried to Collection			R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 900 x 1800mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type D" attached to the back of the Bills of Quantities.	No	12	
2	Aluminium top hung aluminium window including 20 x 10mm aluminium rectangular tubing burglar proofing to opening sections, size 900 x 2100mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type E" attached to the back of the Bills of Quantities.	No	2	
3	Aluminium fixed pane aluminium window, size 1715 x 400mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type M" attached to the back of the Bills of Quantities.	No	3	
4	Aluminium fixed pane aluminium window, size 1300 x 2860mm, plugged and screwed to brickwork or concrete, all as per architects detail "Type N" attached to the back of the Bills of Quantities.	No	6	
Carried to Collection				R
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Item		Quantity	Rate	Amount
1	<p><u>Epoxy powder coated aluminium doors, fanlights and sidelights glazed as shown and plugged to brickwork or concrete</u></p> <p>Approved Custom Made Aluminium single door and aluminium sidelight, overall size 1790 x 2280mm, plugged and screwed to brickwork or concrete, all as per architects detail "Door type S" attached to the back of the Bills of Quantities.</p>	No	1	
Carried to Collection				R
<p>Section No. 3 - New Works</p> <p>Bill No. 10</p> <p>Metalwork</p> <p>CLARENCE BOBIE INCORPORATED</p>				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 11</u></b>				
<b><u>PLASTERING (PROVISIONAL)</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 142				
<b><u>SCREEDS</u></b>				
<b><u>Screeds on concrete</u></b>				
<b><u>Floor screed mix for concrete surface beds, composed of 1 part cement and 3 parts sand in thickness as indicated to concrete surface beds. Cement is to be manufactured in accordance with SANS 50197-1.</u></b>				
1	30 mm Thick on floors	m2	281	
2	35 mm Thick on floors	m2	432	
3	Screeds average 75mm thick laid to falls and currents	m2	48	
Carried to Collection				R
Section No. 3 - New Works Bill No. 11 Plastering (Provisional) CLARENCE BOBIE INCORPORATED				

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**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE**  
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**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>GRANOLITHIC</u></b>				
<b><u>Untinted granolithic on concrete: Granolithic mix for surface beds, composed of 1 part cement 2 parts sand and 1 part 5mm granite aggregate finished with a steel trowel in thickness as indicated to surface beds. Cement is to be manufactured in accordance with SANS 50197-1. Granolithic finish to be laid in panels of not more than 20 square metres with v-joints between panels and as necessary forming readings to stair treads and landings.</u></b>				
1	30mm Granolithic screed to floors	m2	1	
2	40 mm Thick on floors to falls and currents	m2	141	
3	75mm on Existing external concrete floors	m2	46	
4	25 x 250mm High grano plaster skirting with rounded corners	m	160	
<b><u>INTERNAL PLASTER</u></b>				
<b><u>Crack and surface to be clean, sound and dry, insert injection nipples and seal crack with epidermix 372 and inject epidermix 389 into crack, all in accordance with the manufacturer's instructions.</u></b>				
5	In hairline cracks in existing walls, including chipping out of cracks in preparation for application	m	70	
Carried to Collection				R
Section No. 3 - New Works				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p><b><u>All surfaces should be clean, sound and free from contamination, laitance, loose particles. Spalling or flaking material must be removed by thorough wire brushing followed by the removal of debris by means of a soft brush. Suspect surfaces may be mechanically keyed down to virgin surfaceS (randomly), which will ensure good bonding. Fix chicken mesh to the wall with 4-5mm rawl-plugs at 300mm c/c. Coat the surface with a bonding agent. Whilst the bonding agent is still wet, apply a scratch coat of lime plaster. Lime plaster dry mix ratio: 1 : 1 Plaster lime plaster mix 10mm - 20mm thick, finished with a wood float. Manufacturer's mix to take precedence. Cement is to be manufactured in accordance with sans 50197-1 and sand to conform to sans 1083:1994.</u></b></p> <p><b><u>Render in cement plaster with a steel trowel on:</u></b></p> <p>1 Existing walls in patches including keying out mortar joints in preparation. m2 606</p> <p>2 Existing walls including keying out mortar joints in preparation. m2 191</p> <p>3 Existing walls in narrow widths not exceeding 300 mm wide. m 1</p> <p><b><u>Plaster in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in plaster with smooth finish to be mixed to the ratio of 1 part cement: 3 parts sand, (sand to conform to SANS 1083:2006) to interior dry brickwork.</u></b></p> <p><b><u>Render in cement plaster with a steel trowel</u></b></p> <p>4 Walls. m2 1,628</p> <p>5 Walls in narrow widths not exceeding 300 mm wide. m2 74</p> <p><b><u>Cement plaster on concrete</u></b></p> <p>6 On soffits of slabs m2 189</p>			
	Carried to Collection		R	
	Section No. 3 - New Works Bill No. 11 Plastering (Provisional) CLARENCE BOBIE INCORPORATED			

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	On exposed sides of concrete beams	m2	129		
	<u>Gyproc CreteStone applied to concrete surface.Wash concrete surfaces with a cleansing agent to remove grease and oil. Rinse with water until all traces of cleansing agent are removed. Apply first coat of Grippon plaster bonding liquid using a paint roller. Allow it to dry. Apply a second coat of Grippon plaster bonding liquid using a paint roller. While the second coat of Grippon plaster bonding liquid is still tacky/wet apply Apply Gyproc CreteStone to a minimum thickness of 3mm to 6mm thick and finish off with steel trowel.</u>				
2	On underside of concrete ceiling.	m2	189		
	<b><u>EXTERNAL PLASTER</u></b>				
	<u>Crack and surface to be clean, sound and dry, insert injection nipples and seal crack with epidermix 372 and inject epidermix 389 into crack, all in accordance with the manufacturer's instructions.</u>				
3	In hairline cracks in existing walls, including chipping out of cracks in preparation for application	m	52		
	<u>Plaster in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in plaster with smooth finish to be mixed to the ratio of 1 part cement: 3 parts sand and 3 part water: 1 part Plastergrip adhesive (sand to conform to SANS 1083:2006) to exterior dry plaster.</u>				
	<u>Render in cement plaster finished with a steel trowel on:</u>				
4	Existing walls in patches including keying out mortar joints in preparation.	m2	8		
5	Existing walls including keying out mortar joints in preparation.	m2	35		
Carried to Collection					R
Section No. 3 - New Works					
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Item		Quantity	Rate	Amount
<b><u>Plaster in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in plaster with smooth finish to be mixed to the ratio of 1 part cement: 4,5 parts sand, (sand to conform to SANS 1083:2006) to exterior dry brickwork</u></b>				
<b><u>Render in cement plaster finished with a steel trowel</u></b>				
1	On walls.	m2	421	
2	In narrow widths.	m2	7	
<b><u>Cement plaster on concrete.</u></b>				
3	On exposed sides concrete columns	m2	84	
4	On exposed soffits of concrete beams	m2	3	
Carried to Collection				R
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Section 3

Bill No. 11

Plastering (Provisional)

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 12</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><b><u>Fixing</u></b></p> <p>Tiling shall be fixed with an approved tile adhesive to a plaster backing. Plaster backing is measured elsewhere</p> <p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 144</p> <p><b><u>WALL TILING</u></b></p>			
<p>Carried to Collection</p>		R	
<p>Section No. 3 - New Works</p> <p>Bill No. 12</p> <p>Tiling</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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[illegible]

Section 3

Bill No. 12

Tiling

**COLLECTION**

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 13</u></b>			
<b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
G7 Natural gravel in layers not exceeding 150 mm with a CBR of less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content			
<b><u>Fixing</u></b>			
Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories			
Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer			
<b><u>Chasing</u></b>			
Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing and making good shall be included in the rates for pipes			
Carried to Collection			R
Section No. 3 - New Works Bill No. 13 Plumbing And Drainage (Provisional) CLARENCE BOBIE INCORPORATED			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Stainless steel sanitary fittings</u></b>  Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable  <b><u>Waste unions</u></b>  Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings			
Carried to Collection		R	
Section No. 3 - New Works Bill No. 13 Plumbing And Drainage (Provisional) CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>RAINWATER DISPOSAL</u></b>				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 148				
<b><u>Seamless powder-coated aluminium rainwater gutters, etc, fixed strictly in accordance with manufacturer's instructions</u></b>				
1	150mm x 100mm x 0.80mm Thick "Ogee" eaves gutters, on and including gutter brackets at not exceeding 600mm centres.	m	259	
2	Extra over eaves gutter for closed end.	No	30	
3	Extra over eaves gutter for internal and external bends.	No	16	
4	Extra over eaves gutter for outlet with nozzle for 105 x 70mm pipe.	No	45	
5	105 x 70mm x 0.80mm Thick rectangular fluted rainwater downpipes, fixed with and including holderbats to walls at not exceeding 1,5m centres.	m	218	
6	Extra over downpipes for 600 mm eaves projection.	No	15	
7	Extra over downpipes for 300 mm eaves projection.	No	30	
8	Extra over rainwater pipe for bend	No	45	
9	Extra over rainwater pipe for shoe.	No	45	
10	Approved galvanised iron wire balloon grating in 105 x 70mm outlet of gutter	No	45	
Carried to Collection				R
Section No. 3 - New Works Bill No. 13 Plumbing And Drainage (Provisional) CLARENCE BOBIE INCORPORATED				



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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>2mm Thick galvanised mild steel rainwater goods</u></b>			
1	Box gutter two times bent to approximately 1 050mm girth with welded joints including fixing in position on top chord of truss and including approved metal brackets.	m	34	
2	Extra over box gutter for closed end.	No	8	
3	Extra over box gutter for outlet with nozzle for 150mm diameter PVC pipe.	No	5	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>Stainless steel</u></b>			
4	<p>Franke Projectline or similar approved Model PLN611 Grade 304 18/10 polished stainless steel single end bowl inset sink (Code: 1990030), overall size 800 x 460mm with one 340 x 370 x 140mm deep bowl.</p> <p><u>Sink to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>1 x Hansgrohe logis Chrome or similar approved 160 kitchen mixer (Code: 71832003) with a maximum flow rate of 7.00 L/min</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	3	
	Carried to Collection			R
	<p>Section No. 3 - New Works</p> <p>Bill No. 13</p> <p>Plumbing And Drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Vandal-Proof Stainless Steel</u></b>			
1	OVE Model OSPA1 or similar approved vandalproof W.C. manufactured in 1,2 mm Grade 304 AISI (18/10) stainless steel with a 180 grid No. 4 satin finish, with 100 mm diameter full flow "P" trap, 38mm diameter flush pipe (through 540mm walls) and approved junior type flushmaster, brass back entry non hold open flush valve with integral vacuum flush pipe, bend and pan connector, all connections external, including fixing toilet pan to floor and against walls with sleeve anchors, all in accordance to manufacturers instructions.	No	3	
2	OVE Model OSB1A/125 or similar approved 1,2mm Grade 304 18/10 stainless steel SAPSDF combination wash hand basin & drinking fountain (Code:2520011), size 370 x 125 x 490mm high with 40mm concealed waste outlet, unit recessed 125mm into wall, complete with Hansgrohe Chrome S shut-off valve for concealed installation (Code: 15972000) or similar approved push action type valve and 38mm CP brass waste outlet, built into wall with front face lining up with the wall finish in accordance with manufacturers instructions.	No	3	
Carried to Collection				R
Section No. 3 - New Works				
Bill No. 13				
Plumbing And Drainage (Provisional)				
CLARENCE BOBIE INCORPORATED				

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PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Vitreous China</u></b>			
1	<p>Approved vitreous china wall hung basin colour White, overall size 510 x 405mm with three semi-punched tap holes including integrated overflow and chain stay hole, bolted to wall with 2No.10mm bolts and sealed with silicone sealant where basin meets wall.</p> <p><u>Wash hand basin to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>2 x 15mm chrome plated square elbow action pillar tap, cast fixed outlet, mounting kit and angle valves, manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	4	
	Carried to Collection		R	
	<p>Section No. 3 - New Works</p> <p>Bill No. 13</p> <p>Plumbing And Drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	<p>Duravit Philippe Starck 3 wash hand basin or similar approved colour White (Code: 030055 0000), size 550 x 430 x 190mm deep with taphole, overflow, fixed with screws and washers to plugs in wall and sealed with abe Dow Corning 785 acetoxysilicone sealant where basin meets wall.</p> <p><u>Wash hand basin to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>1 x Hansgrohe logis Chrome 100 or similar approved Single lever basin mixer without waste set (Code: 71101003) with a maximum flow rate of 5.00 L/min.</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	2	
2	<p>Duravit Starck 2 drop in vanity basin colour White-00 (Code: 2327480000) or similar approved, overall size 485 x 485 x 190mm, installed in accordance with the manufacturers recommendations.</p> <p><u>Wash hand basin to include:</u></p> <p>1 x 32mm chrome plated basin waste and plug with chain with 62mm diameter flange, 78mm long shank.</p> <p>1 x Hansgrohe logis Chrome 100 or similar approved Single lever basin mixer without waste set (Code: 71101003) with a maximum flow rate of 5.00 L/min.</p> <p>1 x 32mm chrome plated bottle trap with 75mm deep re-seal, adjustable telescopic pipe and 32mm outlet.</p> <p>2 x Angle regulating valves with 350mm long flexi tube, chrome plated</p>	No	12	
Carried to Collection				R
<p>Section No. 3 - New Works</p> <p>Bill No. 13</p> <p>Plumbing And Drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>				

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Item		Quantity	Rate	Amount
1	Vaal Sanitary ware Protea Paraplegic vitreous china floor mounted paraplegic wash down suite colour White (Code: 750246), comprising 90° outlet pan (Code: 750200) and matching 9 litre cistern, including lid, fitments (Code: 710631) and purpose-made chromium plated side flush lever and BEMIS 7500 economy double flap thermostet seat.	No	4	
2	Duravit or similar approved Philippe Starck 3 WC colour White (Code: 012409 0000), size 360 x 560mm with SoftClose seat (Code: 006389 0000), screwed with stainless steel screws to plugs in floor with foot of bowl sealed to floor with abe acetoxysilicone sealant, with and including Geberit or similar approved pneumatic duct cistern (Article No. 110.792.00.1) including Sigma standard cover plate (Article No. 115.768.46.1) in matt chrome plated finish, with Type 01 round single-flush pneumatic actuator (Article No. 116.041.46.1) in matt chrome plated finish, to be fixed with included fastening materials, all to manufacturers specification and conditional guarantee.	No	10	
3	Duravit Starck 3 Urinal colour White Alpin (Code: 082725 0000) or similar approved size 245 x 300mm, fixed to wall with 2No. 8 x 120mm mounting bolts with and including GROHE 20mm diameter Chrome Rondo Control Cap Urinal Flush Valve or similar approved with integrated stop valve for exposed installation (Code: 37342000) with control cap, 1 - 4L flush volume, 0,5 - 5 bar flow pressure, flow rate adjustment, escutcheon, integrated stop valve and water supply connection to and including plastic flush pipe.	No	4	
	<b>Brass</b>			
4	15mm Bibcock with hose union	No	4	
<b><u>SANITARY PLUMBING</u></b>				
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>uPVC pipes</u></b>			
1	50mm Pipes m	76		
2	110mm Pipes m	60		
	<b><u>Extra over uPVC pipes for uPVC fittings</u></b>			
3	50mm Bend No	55		
4	50mm Access bend No	24		
5	50mm Access junction No	12		
6	110mm Access bend No	17		
7	110mm Pan connector No	17		
8	110mm Junction No	17		
9	110mm "GI two-way" vent valve No	7		
	<b><u>Sundries</u></b>			
10	Testing waste pipe system Item			
	<b><u>WATER SUPPLIES</u></b>			
	<b><u>Class 460/2 copper pipes</u></b>			
11	15mm Pipes m	176		
12	22mm Pipes m	54		
13	28mm Pipes m	36		
	<b><u>Extra over class 460/2 copper pipes for conex compression fittings</u></b>			
14	15mm Fittings No	184		
	Carried to Collection		R	
	Section No. 3 - New Works Bill No. 13 Plumbing And Drainage (Provisional) CLARENCE BOBIE INCORPORATED			

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	22mm Fittings	No	18		
2	28mm Fittings	No	18		
	<b><u>TESTING</u></b>				
3	Testing water pipe system		Item		
	<b><u>ELECTRIC WATER HEATERS</u></b>				
4	Zip or similar approved white powder coated 10 litre Hydro boil (Code: 2610012), size 340 x 205 x 630mm high with instant boiling water, two way tap control, SK3 drip tray (Code: 2120112) with SK3 bracket (Code: 2120114), connected to 15mm cold water supply and 220 volt 15 amp electrical power supply, plugged and screwed to wall and fitted under 1 year guarantee.	No	3		
	<b><u>FIRE APPLIANCES, ETC</u></b>				
5	Standard 4,5 kg dry powder rechargeable, to comply with SANS 1910 complete with approved lockable break glass fibreglass box, installed, maintained and serviced by competent persons with SANS 1475-1 and SANS10105-1 9as stated in SANS 10400-T:2011), plugged and screwed	No	11		
	<b><u>LAGGING</u></b>				
	<b><u>"Thermaflex" pipe insulation</u></b>				
6	Insulation to 28mm pipe and couplings	m	36		
7	Extra for wrapping around fittings	No	18		
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 3</u></b>				
<b><u>BILL NO. 14</u></b>				
<b><u>GLAZING</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>Proprietary products in descriptions</u></b>				
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent				
<b><u>CPAP WORK GROUP</u></b>				
Unless otherwise stated all items in this bill will be Work Group 150				
<b><u>GLAZING TO WOOD WITH PINNED ON BEADS (BEADS ELSEWHERE)</u></b>				
<b><u>6,38mm thick Smartglass or similar approved residential standard laminated safety glass, complying with SANS 1263 Part 1, 2 or 3 with name of the manufacturer permanently marked on each sheet visible after glazing, glazed in accordance with NBR N schedule 1 and SABS 0137.</u></b>				
1	Panes exceeding 0.1 and not exceeding 0.5m2	m2	58	
2	Panes exceeding 0.5 and not exceeding 1m2	m2	10	
Carried to Summary of Section 3				R
Section No. 3 - New Works Bill No. 14 Glazing CLARENCE BOBIE INCORPORATED				

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**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

Item	Quantity	Rate	Amount
<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 15</u></b></p> <p><b><u>PAINTWORK (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p> <p><b><u>CPAP WORK GROUP</u></b></p> <p>Unless otherwise stated all items in this bill will be Work Group 152</p> <p><b><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></b></p> <p><b><u>Plascon paint or other approved</u></b></p> <p><b><u>ON PLASTER</u></b></p>			
<p>Carried to Collection</p>		R	
<p>Section No. 3 - New Works</p> <p>Bill No. 15</p> <p>Paintwork (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

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**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Remove loose and peeling paint by scraper or hand sanding. Feather edges and dust off. Spot prime bare areas with approved wood primer (unthinned). Ensure surfaces are clean, dry and sound. To determine the moisture content, use a Doser Hygrometer scale A1 - A5 (or equivalent) depending on generic wood type. Measurements should be &lt;14% before painting. Sand wood to a smooth finish with 150 grit paper in direction of grain. Dust off.</u>				
	<u>Prime with one coat approved undercoat with an over coating time of 8 hours and finish with two coats approved super universal enamel paint with 16 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>				
1	On general surfaces of existing exposed trusses	m2	47		
2	On existing doors	m2	60		
3	On existing windows	m2	99		
4	On frames, skirtings, rails, etc not exceeding 300mm girth	m	457		
	<b><u>ON METAL</u></b>				
	<u>Clean previously painted surfaces using a scrubbing brush with Polycell Sugar Soap solution - 500g Polycell Sugar Soap Powder (501703) dissolved in 5 litres water to remove surface contaminants. Rinse with water to remove all traces of Sugar Soap and allow drying. Sand previously painted gloss surfaces to a matt finish and dust off.</u>				
	<u>Apply one coat of Metal Primer (UC 170) to achieve a continuous film. Allow 36 hours to dry and finish with two coats Velvagio Water Based (VLW) ( Colour : Charcoal Grey) with 4 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.</u>				
5	On strongroom doors and frames	m2	8		
	Carried to Collection			R	
	Section No. 3 - New Works Bill No. 15 Paintwork (Provisional) CLARENCE BOBIE INCORPORATED				

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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	On steel gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	99		
	<u>Plascon Nuroof Cool Acrylic Roof Paint to existing coated exterior galvanised steel</u> <u>Clean entire surface with Sugar Soap using bristle brooms or brushes or pads to remove all surface contaminants, rinse with tap water and allow to dry. Remove loose and flaky paint and sand surface to a firm edge, feather edges and dust off. Emery paper any rust areas to bright metal and remove dust. Spot prime bare areas with approved red oxide and allow 1 hour to dry. Finish with two coats Nuroof Cool Acrylic Roof Paint Ashen sky (TRP 214) with 2 hours drying time between coats, for a maintenance cycle of 12 years in a C1 - inland environment.</u>				
2	On corrugated iron roof sheeting (measured on slope)	m2	622		
	<b><u>PAINTWORK ETC TO NEW WORK</u></b>  <u>Plascon paint or other approved</u>  <b><u>ON PLASTERED SURFACES</u></b>  <u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat approved Plaster Primer with an over coating time of 16 hours and finish with two coats Wall &amp; All or approved equivalent with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>				
3	On internal walls.	m2	1,574		
	<u>Prepare and apply two coats approved epoxy enamel coating including approved primer for porous surfaces, all in accordance with the manufacturer's instructions.</u>				
4	On internal plastered walls	m2	307		
5	On soffits of concrete slab.	m2	124		
	Carried to Collection			R	
	Section No. 3 - New Works Bill No. 15 Paintwork (Provisional) CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat approved Plaster Primer with an over coating time of 16 hours and finish with two coats Micatex or approved equivalent with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>			
1	On external walls.	m2	531	
2	On exposed sides and soffits of plastered concrete beams.	m2	16	
	<u>Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat Plaster Primer (UC56) with an overcoating time of 16 hours and finish with two coats Wall &amp; All (WAA 1) (Colour: White) with 2 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u>			
3	On soffits of concrete slab.	m2	65	
	<b><u>ON FIBRE-CEMENT</u></b>			
	<u>Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less.</u>  <u>Prime with one coat Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment on:</u>			
4	On ceilings and cornices.	m2	637	
Carried to Collection				R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	On sills not exceeding 300mm girth.	m	17		
2	On fascias and barge boards.	m2	201		
<b><u>ON WOOD</u></b>					
<b><u>Surface to be dry, sound and clean. Wash knots and resinous areas with lacquer thinners and coat with approved knot sealer and apply one coat of approved wood pretreatment, over coated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) &lt; 14% or less.</u></b>					
<b><u>Prime with one coat approved undercoat with an over coating time of 8 hours and finish with two coats approved super universal enamel paint with 16 hours drying time between coats, for a maintenance cycle of 10 years in a C1 - inland environment.</u></b>					
3	On doors (all surfaces measured).	m2	196		
4	On windows (all surfaces measured).	m2	8		
5	On frames, skirtings, rails, etc not exceeding 300mm girth	m	894		
6	On general surfaces of timbers at eaves.	m2	12		
<b><u>Two coats wood primer on:</u></b>					
7	On backs of frames, linings, etc not exceeding 300mm wide.	m	894		
<b><u>ON SMOOTH CONCRETE</u></b>					
Carried to Collection					R
Section No. 3 - New Works					
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>Woodoc 45 or similar approved Tile and Cement Sealer to new exterior concrete. Ensure surfaces are clean from dust, oil, wax, grout or other sealer. If washed, let surface dry completely (at least 8 hours). Apply three coats Woodoc 45, with 24 hours drying time between coats, for a maintenance cycle of 12 - 18 months in a C1 - inland environment.</u>				
1	On wood floated floors.	m2	46		
	<b><u>ON PVC PIPES</u></b>				
	<u>Lightly sand with abrasive paper, leaving surface clean and dust free.</u>				
	<u>Prime surface with one coat Supergrip (Code: D35) with an overcoating time of 12 hours and finish with two coats Gloss Enamel (Code: D27) with an overcoating time of 18 hours.</u>				
2	On posts, rails, bars, pipes, etc. not exceeding 300mm girth	m	120		
	<b><u>ON METAL</u></b>				
	<u>Surface to be dry, sound and clean. Apply Galvanised Iron Cleaner (GIC 1) to all bare galvanised areas. Allow to react for 1 minute and rinse off with tap water using bristle brush or Scotch Brite pads to remove all surface contaminants, until surface is water break-free.</u>				
	<u>Prime with one coat Galvanised Iron Primer (GIP 1) with an overcoating time of 24 hours and finish with two coats Super Universal Enamel (NY 1/G) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment on:</u>				
3	On steel gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area).	m2	92		
Carried to Collection					R
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Bill No. 15

Paintwork (Provisional)

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### **SECTION SUMMARY - Section No. 3 - New Works**

SECTION SUMMARY - Section No. 3 - New Works					
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<b><u>SECTION NO. 4</u></b>				
<b><u>BILL NO. 1</u></b>				
<b><u>STORMWATER DRAINAGE (PROVISIONAL)</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles see "Specification of materials and methods to be used - PW 371"				
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<b><u>NOTE:</u></b>				
Where items in this Bill are identical to those in the previous Bills, the descriptions have been shortened, and the full descriptions in the Trades concerned are to be referred to for the full meaning and intent of each item				
<b><u>SURFACE DRAINAGE</u></b>				
<b><u>Precast or in-situ concrete (Class 25) size 500 x 275mm open stormwater channels with 300 x 125mm deep half round-shaped waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths (not exceeding 1000mm), and reinforced as necessary for handling if precast, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u></b>				
1	Concrete stormwater channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	53	
2	Extra over for angle.	No	4	
3	Extra over for outlet	No	2	
Carried to Collection				R
Section No. 4 - External Works				
Bill No. 1				
Stormwater drainage (Provisional)				
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ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>In-situ concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths (not exceeding 2,000mm), including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u></b>			
1	1000mm wide x 100mm 25Mpa open concrete stormwater channel with 1000mm wide x 50mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	19	
2	1200mm wide x 100mm 25Mpa open concrete stormwater channel with 1200mm wide x 50mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	10	
3	1200mm wide x 125mm 25Mpa open concrete stormwater channel with 1200mm wide x 75mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	53	
4	1000mm wide x 150mm 25Mpa open concrete stormwater channel with 1000mm wide x 100mm deep 'V' channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	46	
5	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc	No	19	
	Carried to Collection			R
	Section No. 4 - External Works			
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	CLARENCE BOBIE INCORPORATED			

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**ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Extra over for widening concrete to form grouted pitching spreader 2000mm wide extreme, for a length of 1000mm and bedding 120mm diameter stone in concrete to falls including brushing concrete between stones.	No	2	
	<b><u>In-situ concrete (30MPa) open stormwater duct channels overall size 600 x 200mm having 400 x 100mm deep rectangular waterway formed in top, finished smooth on all exposed surfaces and with angles rounded, cast in suitable lengths (not exceeding 1500mm), including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in (3:1) cement mortar</u></b>			
2	Concrete stormwater channel, on suitable 150mm subbase material compacted to 95% Mod A.A.S.H.T.O. density, including all necessary excavations, formwork, compaction, grading, carting away, etc.	m	31	
3	Extra over for angles, intersections, ends, dressing into sides of catchpits, etc	No	1	
4	Extra over for widening concrete to form grouted pitching spreader 1200mm wide extreme, for a length of 1000mm and bedding 120mm diameter stone in concrete to falls including brushing concrete between stones.	No	1	
	<b><u>Movement Joints, etc</u></b>			
	<b><u>Joint forming material in movement joints:</u></b>			
5	10mm Bitumen impregnated fibre board built in vertically or horizontally between concrete (Provisional).	m2	4	
	<b><u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>			
6	10mm Joints in floors or walls including raking out expansion joint filler as necessary (Provisional)	m	22	
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>UNDER GROUND DRAINAGE</u></b></p> <p><b><u>Note : Work measured under this bill includes all plumbing and drainage outside the building perimeters.</u></b></p> <p><u>Trenching, Laying, backfilling, bedding, etc. of pipes</u></p> <p>The <b>depth</b> of the trenches shall be a minimum of 1000mm below the finished road, paved or ground surface to the top of pipe <b>plus</b> the pipe diameter <b>plus</b> a minimum of 100mm deep below bottom of pipe.</p> <p>The <b>width</b> of the trench shall be a minimum of the pipe diameter <b>plus</b> 300mm to either side of the pipe. The contractors should make allowance for working space should it be required.</p> <p><u>Compacted selected bedding:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 6mm. Depth of bedding minimum 100mm below pipe plus radius of pipe.</p> <p><u>Compacted selected fill blanket:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 10mm. Depth of bedding minimum 300mm above pipe plus radius of pipe.</p> <p><u>Compacted selected backfill:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200DB 3.2 with a maximum aggregate size to be 63mm. Depth of bedding minimum 650mm.</p> <p>Pipes shall be trenched, laid, bedded and carefully backfilled.</p>			
Carried to Collection		R	
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Item		Quantity	Rate	Amount
	<p><b><u>Stormwater drainage pipes to be uPVC Class 34 heavy duty drain pipe with seal ring socket joint complying with SANS 791:1986, laid to falls in ground including excavation of trenches, bedding, backfilling and compaction and disposal of surplus material. Trenches not exceeding 1 m deep shall be taken of such width as to provide a clearance of 300 mm on each side of the pipe or group of pipes. The width of the trench shall be increased by 100 mm for each successive depth of 1 m to a maximum width which provides a clearance of 500 mm on each side of the pipe or group of pipes.</u></b></p>			
1	160 mm Pipe not exceeding 1000 mm deep.	m	14	
2	Ditto exceeding 1000 mm not exceeding 2000 mm deep.	m	7	
	<b><u>uPVC drainage channels</u></b>			
3	160 mm Half round channel in bottom of inspection chamber.	m	1	
	<b><u>Extra over 160 mm uPVC pipe for:</u></b>			
4	160mm diameter x 22,5° long radius bend with socket joint with Anger-Lock seal.	No	2	
	<p><b><u>INSPECTION CHAMBERS, CATCHPITS, SUMPS, ETC. (gratings and covers elsewhere)</u></b></p> <p>Note : Prices for headwalls, sumps, catch pits, inspection chambers, inlets, etc. shall be deemed to include for all excavation, building in of pipe work, risk of collapse, backfilling and compaction.</p> <p>-----</p>			
	Carried to Collection		R	
	<p>Section No. 4 - External Works</p> <p>Bill No. 1</p> <p>Stormwater drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			



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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Catch pits</u></b>			
1	Excavate for and build catchpit overall size 740 x 740 mm, exceeding 1000mm and not exceeding 2000mm deep internally with one brick sides in extra hard burnt stock bricks in (3:1) cement mortar on 740 x 740 x 100mm thick concrete (20 MPa) bottom slab, rendered out internally in (3:1) cement plaster with bottom benched up to self cleaning falls, including 740 x 740 x 100/75mm thick in-situ or precast concrete (30 MPa) surround, sloped inwards and rebated to receive 300 x 300mm grey iron grating and frame (elsewhere measured) finished smooth on all exposed surfaces with cement plaster laid flush with adjacent paving or finished ground level, including formwork, etc.	No	2	
	<b><u>GRATINGS, COVERS, ETC.</u></b>			
2	Light duty grey iron square dish grating cover and frame, size 300 x 300mm.	No	2	
	<b><u>Sundries</u></b>			
3	Medium duty VP4 Lifting key size x 1kg	No	1	
Carried to Collection				R
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Item	Quantity	Rate	Amount
<p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>SOIL DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary products in descriptions</u></b></p> <p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent</p>			
<p>Carried to Collection</p>		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 2</p> <p>Soil drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>NOTES:</u></p> <p>All reference to SANS specifications and code of practice, or any other standard specifications or codes of practice, including National Building Regulations, shall be as per the latest issues of such specifications and codes.</p> <p>All dimensions indicated on the layout drawing are in metres unless otherwise indicated.</p> <p>Construction of sewer mains and connections as per SANS 1200 DB, LB &amp; LD, project specifications and details as indicated.</p> <p>All sewer PVC-U pipes and fittings to be heavy duty class 34 per SANS 791.</p> <p>Air test required on all constructed sewer pipe lines in accordance with SANS 1200 7.2.1 air test to be done once 300mm backfill above pipe has been completed.</p> <p>Sewer pipes connecting washbay and refuse yard to the grease trap which fall under paved areas are to be concrete encased with 15 MPa/19mm concrete. 330x330mm for 110mm pipe and 48x480mm for 160mm pipe.</p> <p>Concrete pipes Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.</p> <p>uPVC pipes and fittings Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings in compliance with SABS 791.</p>			
Carried to Collection		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 2</p> <p>Soil drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>uPVC pressure pipes and fittings Pipes for water supply shall be of the class stated in compliance with SABS 966. Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings. Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints.</p> <p>Copper pipes</p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016.</p> <p>Only compression fittings shall be used in ground.</p> <p>Brick inspection chambers, catchpits, etc. Descriptions of brick inspection chambers, catchpits, etc. shall be deemed to include excavations, concrete base/s, concrete coverslabs, brickwork, finishes internally and externally, channels, channel bends, channel junctions, concrete benching and step irons (where required), jointing to drains and backfilling, compaction, etc.</p>			
Carried to Collection		R	
<p>Section No. 4 - External Works</p> <p>Bill No. 2</p> <p>Soil drainage (Provisional)</p> <p>CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>SOIL DRAINAGE</u></b></p> <p><b><u>Note : Work measured under this bill includes all plumbing and drainage outside the building perimeters.</u></b></p> <p><u>Trenching, Laying, backfilling, bedding, etc. of pipes</u></p> <p>The <b>depth</b> of the trenches shall be a minimum of 1000mm below the finished road, paved or ground surface to the top of pipe <b>plus</b> the pipe diameter <b>plus</b> a minimum of 100mm deep below bottom of pipe.</p> <p>The <b>width</b> of the trench shall be a minimum of the pipe diameter <b>plus</b> 300mm to either side of the pipe. The contractors should make allowance for working space should it be required.</p> <p><u>Compacted selected bedding:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 6mm. Depth of bedding minimum 100mm below pipe plus radius of pipe.</p> <p><u>Compacted selected fill blanket:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 10mm. Depth of bedding minimum 300mm above pipe plus radius of pipe.</p> <p><u>Compacted selected backfill:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200DB 3.2 with a maximum aggregate size to be 63mm. Depth of bedding minimum 650mm.</p> <p>Pipes shall be trenched, laid, bedded and carefully backfilled.</p> <p><b><u>REMOVAL OF EXISTING WORK</u></b></p>			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Break up, disinfect and remove manholes pipes, etc.</u></b>			
1	Manhole size 500 x 1200 mm x not exceeding 1m deep internally to invert level formed of hard burnt one brick sides and including 150 mm thick mass concrete bottom benching, kerb on top including cast iron double seal cover and frame including all necessary filling of holes and compacting.	No 3		
2	Excavate for and remove existing 110mm diameter PVC sewer pipe average 800mm below surface, including backfilling trenches, etc.	m 70		
	<b><u>SEWER PIPES (SABS 1200 LD)</u></b>			
	<b><u>Earthworks</u></b>			
	<b><u>Site Clearance</u></b>			
3	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2 118		
	<b><u>Soil drainage pipes to be uPVC Class 34 heavy duty sewer drain pipe with seal ring socket joint complying with SANS 791:1986, laid to falls in ground including excavation of trenches, bedding, backfilling and compaction and disposal of surplus material. Trenches not exceeding 1 m deep shall be taken of such width as to provide a clearance of 300 mm on each side of the pipe or group of pipes. The width of the trench shall be increased by 100 mm for each successive depth of 1 m to a maximum width which provides a clearance of 500 mm on each side of the pipe or group of pipes.</u></b>			
4	110mm Pipes vertically or ramped to cleaning eyes, etc. (no excavation)	m 21		
5	110 mm Pipe not exceeding 1000 mm deep.	m 147		
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		Quantity	Rate	Amount
110 mm Pipe exceeding 1000 mm not exceeding 2000 mm deep.	m	44		
<b><u>Extra over 110 mm uPVC pipe for:</u></b>				
Bend.	No	33		
Junction	No	38		
<b><u>uPVC drainage channels</u></b>				
110 mm Half round channel in bottom of inspection chamber.	m	7		
<b><u>Sundries</u></b>				
50 mm Precast concrete marker block size 300 x 300 mm, finished in untinted cement paving with letters "IE" sunk in same and setting flush with ground or pavings.	No	6		
<b><u>INSPECTION CHAMBERS, CATCHPITS, SUMPS, ETC. (gratings and covers elsewhere)</u></b>				
Note : Prices for headwalls, sumps, catch pits, inspection chambers, inlets, etc. shall be deemed to include for all excavation, risk of collapse, backfilling and compaction. -----				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Sewer Inspection Chambers etc</u></b>			
1	Manhole size 890 x 1040 mm x not exceeding 1m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2	
2	Manhole size 890 x 1040 mm x exceeding 1m and not exceeding 2m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2	
	Carried to Collection			
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Manhole size 1040 x 1340 mm x not exceeding 1m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	1	
2	Manhole size 1040 x 1340 mm x exceeding 1m and not exceeding 2m deep internally to invert level formed of hard burnt (14MPa) one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides and mass concrete (15 MPa at 28 days in 12 mm stone) benching, rendered internally in 1:3 cement plaster with 200/150 mm thick mass concrete (20 MPa at 28 days in 19 mm stone) top slab with and including Y10 bars placed at bottom at 100mm centres in both directions, rebated for and fitted with and including 600 x 450mm cast iron double seal cover and frame type 9D in accordance with SANS 50124/EN124, bedded in 1:3 cement mortar and sealed in tallow including all necessary vitrified clay channels and fittings, excavations, formwork, holes through sides for pipes, etc	No	2	
	<b><u>Covers etc</u></b>			
3	600 x 400 x 250/200mm thick precast or insitu concrete collar slab support block with and including cast iron 45 degree cleaning eye to suit 110mm sewer pipe including all excavations, bedding , etc.	No	7	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Manholes, gulley traps, etc:</u></b>			
1	110mm uPVC Gulley trap and hopper with grid not exceeding 1000mm deep all set and encased in (20MPa) mass concrete to form kerb, finished smooth with plaster.	No 11		
	<b><u>Sundries</u></b>			
2	Medium duty VP4 Lifting key size x 1kg	No 2		
3	Manhole stepiron size 255 x 155mm x 1,7kg	No 14		
4	Excavate for, cut into existing manhole 900 mm deep to invert and insert 160 to 110 mm reducer.	No 1		
5	Extra over excavation for sewer trenches, manholes etc. in pickable material for excavation in soft rock.	m3 5		
6	Ditto in hard rock.	m3 1		
7	Unreinforced concrete encasing to 110mm horizontal pipe	m3 0.50		
8	Unreinforced concrete encasing to 110mm vertical pipe	m3 0.30		
	<b><u>Sewer connection</u></b>			
9	Search for, locate, inspect and clean municipal sewer manhole connection point	No 1		
	<b><u>TESTING, ETC.</u></b>			
10	Provide all necessary apparatus, water, etc. for and test the sewer reticulation to the satisfaction of the Architect/Engineer and Local Authorities.	Item		
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Soil drainage (Provisional)

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>WATER SUPPLIES (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
SUPPLEMENTARY PREAMBLESNote : Work measured under this bill includes all plumbing and drainage outside the building perimeters.			
<b><u>NOTES:</u></b>			
All reference to SANS specifications and code of practice, or any other standard specifications or codes of practice, including National Building Regulations, shall be as per the latest issues of such specifications and codes.			
All dimensions indicated on the layout drawing are in metres unless otherwise indicated.			
Construction of domestic mains and connections as per SANS 1200 DB,L & LB, project specifications and details as indicated.			
Construction of concrete anchor and thrust blocks at bends, tee pieces, ends caps as per SANS 1200 L5.5			
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
and as per typical water details C5574/123.			
All domestic reticulation HDPE PE100 PN10 (SDR 17) pipes as per SANS 4427-5/ISO 4427-5.			
All domestic reticulation pipe types and sizes indicated on the layout drawings.			
HDPE pipes shall be jointed using mechanical-joint compression fitting as per SANS 14236/ISO 14236, class of fittings to suit relevant pipe class.			
Cast iron fittings for PVC-U pipes as per SANS 52842/EN 12842.			
Cast iron pipe saddles for PVC-U pipes as per SANS 1808-44.			
Contractor to locate existing water mains to be connected to.			
Temporary isolating valves, to suit proposed water mains size and class, to be installed as indicated by the Civil Engineer on site once connections to existing water mains have been completed.			
Hydraulic pipeline test to be done in accordance with SANS 1200 L. Pipes are to be tested 1.5 times the pipe pressure class measured at the lowest point of the pipeline.			
Carried to Collection		R	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>WATER SUPPLIES</u></b>				
<b><u>Note :</u></b>				
<u>Work measured under this bill includes all plumbing outside the building perimeters.</u>				
<u>Trenching, Laying, backfilling, bedding, etc. of pipes</u>				
The <b>depth</b> of the trenches shall be a minimum of 1000mm below the finished road, paved or ground surface to the top of pipe <b>plus</b> the pipe diameter <b>plus</b> a minimum of 100mm deep below bottom of pipe.				
The <b>width</b> of the trench shall be a minimum of the pipe diameter <b>plus</b> 300mm to either side of the pipe. The contractors should make allowance for working space should it be required.				
<u>Compacted selected bedding:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 6mm. Depth of bedding minimum 100mm below pipe plus radius of pipe.				
<u>Compacted selected fill blanket:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200LB with a maximum aggregate size to be 10mm. Depth of bedding minimum 300mm above pipe plus radius of pipe.				
<u>Compacted selected backfill:</u> Compaction to 93% MOD AASHTO. Material to SABS 1200DB 3.2 with a maximum aggregate size to be 63mm. Depth of bedding minimum 650mm.				
Pipes shall be trenched, laid, bedded and carefully backfilled to the satisfaction of the Engineer.				
<b><u>HDPE PE100 PN10 (SDR 17) pressure pipes</u></b>				
1	32mm Pipes laid in and including trenches	m	89	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>HDPE PE100 PN10 (SDR 17) pressure pipes</u></b>			
1	50mm Pipes laid in and including trenches	m	279	
	<b><u>Extra over HDPE pressure pipes for (class 16) HDPE mechanical joint compression fittings</u></b>			
2	32mm x 90° Elbow	No	2	
3	32mm x 1" x 90degree Female threaded elbow (with reinforced ring)	No	5	
4	32mm x 1¼" x 90degree Elbow with male threaded off take	No	2	
5	32 x 32mm Equal tee	No	2	
6	32mm End cap	No	1	
7	50mm 90° Elbow	No	9	
8	50mm x 2" x 90° Elbow with male threaded off take	No	1	
9	50mm x 2" Female adaptor (with reinforced ring)	No	20	
10	50mm x 2" Flange adaptor with metal ring	No	2	
11	50mm x 1¼" Clamp saddle for HDPE and uPVC pipes with female threaded off take (with reinforced ring)	No	2	
12	90mm x 2" Clamp saddle for HDPE and uPVC pipes with female threaded off take (with reinforced ring)	No	1	
13	50 x 50mm Equal tee	No	1	
14	50 x 32mm Reducing tee	No	6	
15	50mm Coupling	No	1	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	50mm End cap	No	3		
2	1¾" BSP Threaded end cap	No	1		
3	2" BSP Threaded end cap	No	1		
4	Making good fitting, 1¼" BSP Threaded Plug	No	2		
	<b><u>Galvanised Mild Steel (GMS)/Cast Iron pipes and fittings as described to meter boxes, valve boxes and low level water tanks</u></b>				
5	150mm Long 50NB GMS medium duty pipe (SANS 62-1) flanged (DRILLING TABLE 1600/3 SANS 1123) on both ends	No	2		
6	500mm Long 50NB GMS Medium duty pipe (SANS 62-1) flanged (DRILLING TABLE 1600/3 SANS 1123) on the one end and threaded (SANS 1109-1 / ISO 7-1) on the other end	No	2		
7	500mm Long 50NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	17		
8	500mm Long 40NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	1		
9	500mm Long 20NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	1		
10	500mm Long 25NB GMS Medium duty pipe (SANS 62-1) threaded (SANS 1109-1 / ISO 7-1) on both ends	No	1		
11	20mm Galvanised Union-cone faced malleable cast iron fitting	No	1		
12	20mm Galvanised Hexagon nipple malleable cast iron fitting	No	2		
	Carried to Collection			R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	25mm Galvanised Union-cone faced malleable cast iron fitting	No	1		
2	25mm Galvanised Hexagon nipple malleable cast iron fitting	No	2		
3	40mm Galvanised Union-cone faced malleable cast iron fitting	No	1		
4	40mm Galvanised Hexagon nipple malleable cast iron fitting	No	2		
5	50mm Galvanised Union-cone faced malleable cast iron fitting	No	17		
6	50mm Galvanised Hexagon nipple malleable cast iron fitting	No	32		
7	50 x 50mm Galvanised Equal tee malleable cast iron fitting	No	3		
8	50 x 20mm Galvanised Reducing tee malleable cast iron fitting	No	1		
9	50 x 25mm Galvanised Reducing tee malleable cast iron fitting	No	1		
10	50 x 40mm Galvanised Reducing tee malleable cast iron fitting	No	1		
<b><u>Cast iron/Brass fittings as described to meter boxes, valve boxes and low level water tanks</u></b>					
11	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) ELSTER KENT H4010 or similar approved in line stainer with corrosion-resistant coating	No	1		
12	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) ELSTER KENT HELIX H4000 or similar approved bulk water meter with a corrosion-resistant coating	No	1		
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) mechanical back-flow prevention device (non-return valve) with a corrosion-resistant coating	No	1		
2	50DN Cast iron flanged (DRILLING TABLE 1600 SANS 1123) resilient seal waterworks or similar approved gate valve, with corrosion-resistant coating, right hand closing with non-rising spindle and hand wheel top.	No	1		
3	20mm Brass gate valve (female threaded ends)	No	1		
4	25mm Brass gate valve (female threaded ends)	No	1		
5	40mm Brass gate valve (female threaded ends)	No	1		
6	50mm Brass gate valve (female threaded ends)	No	14		
	<b><u>Concrete (15 mPa) encasing around pipes</u></b>				
7	50mm Pipe horizontal	m3	1		
8	Unreinforced concrete in thrust blocks at bends, tees, etc., including necessary extra excavation, formwork, etc.	m3	1		
	<b><u>Valve boxes including excavations, concrete bottoms, brick sides, concrete cover slabs and cast iron covers and frames</u></b>				
9	Valve box size 750 x 750 mm not exceeding 1000mm deep internally to invert level formed of 150mm thick cast insitu base slab and walls steel floated (25 MPa at 28 days in 19 mm stone) with ref 617 steel mesh reinforcing to centre of walls and base including lapping 400mm into base slab, fitted with and including ductile iron 450 x 450mm lockable cover and frame, cast into insitu concrete and bedded in 1:3 cement mortar and sealed in tallow including all necessary fittings, excavations, formwork, holes through sides for pipes, etc	No	7		
	Carried to Collection			R	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Water meter box size 1860 x 1040 mm not exceeding 1000mm deep internally to invert level formed of hard burnt one brick sides in 1:3 cement mortar on and including 150 mm thick mass concrete (25 MPa at 28 days in 19 mm stone) bottom projecting 75 mm beyond sides with 150/120 mm thick mass concrete (30 MPa at 28 days in 19 mm stone) top slab with Y10 reinforcing bars at 100mm centres both ways place 30mm from bottom of slab, rebated for and fitted with and including cast iron Type 9E light duty cover and frame size 600 x 900mm accordance with SANS 558, bedded in 1:3 cement mortar and sealed in tallow including all necessary fittings, excavations, formwork, holes through sides for pipes, etc	No	1	
	<b><u>Sundries</u></b>			
2	Excavate and search for existing water supply points and expose pipe and prepare for new connection.	No	1	
3	Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in soft rock	m3	0.4	
4	Extra over excavation in earth for pipe trenches, chambers, etc. for excavation in hard rock	m3	0.3	
	<b><u>COLD WATER SUPPLIES</u></b>			
	<b><u>Class 3 copper pipes</u></b>			
5	28mm Pipe in ground.	m	24	
6	32mm Pipe in ground.	m	6	
	<b><u>Extra over class 3 copper pipes for compression fittings</u></b>			
7	28mm Adaptor coupling	No	3	
8	28mm Pillar tap adaptor coupling	No	2	
9	28mm Bent adaptor coupling	No	3	
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Item			Quantity	Rate	Amount
1	28mm Bent adaptor coupling with wall plate	No	2		
2	28mm Elbow	No	10		
3	28mm Tee	No	12		
4	28mm Reducing coupling	No	6		
5	28 x 28 x 22mm Reducing tee	No	6		
	<b><u>Class 2 copper pipes</u></b>				
6	25mm stand pipe.	m	2		
	<b><u>Extra over 25mm copper pipes for</u></b>				
7	Wallplate elbow.	No	2		
	<b><u>Valves, etc. including joints to galvanised steel pipes.</u></b>				
8	22 mm Brass bibtap.	No	2		
	<b><u>TESTING, ETC.</u></b>				
9	Provide all necessary apparatus, water, etc. for and test the water reticulation system to the satisfaction of the Architect/Engineer and Local Authorities.		Item		
	<b><u>COLLECTOR TANKS AND SLABS</u></b>				
	SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----				
10	Allow the sum of R65,000.00 (Sixty Five Thousand Rand) for the Supply and Installation of a Water Collector Tank and Concrete Base to be executed complete by a specialist subcontractor.		Item		65,000.00
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1 Allow for profit.	Item		
2 Allow for attendance.	Item		
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>			
<b><u>BILL NO. 4</u></b>			
<b><u>ROADS, PARKING AND WALKWAYS(PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
APPLICABLE STANDARDIZED SPECIFICATIONS1.			
SANS 1200 -Standardised Specifications for Civil Engineering			
Construction*	SANS 1200 A	1986	Section A:
General	SANS 1200 C	1980	Section C: Site
Clearance	SANS 1200 D	1988	Section D:
Earthworks	SANS 1200 DB	1989	Section DB:
Earthworks (pipe trenches)	SANS 1200 DK	1996	Section DK:
Gabions and pitching	SANS 1200 DM	1981	Section DM: Earthworks (roads, subgrade)
	SANS 1200 G	1982	Section G: Concrete (structural)
	SANS 1200 L	1983	Section L: Medium-pressure pipe
lines	SANS 1200 LB	1983	Section LB: Bedding
(pipes)	SANS 1200 LC	1981	Section LC: Cable
ducts	SANS 1200 LD	1982	Section LD: Sewers
	SANS 1200 LE	1982	Section LE:
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Stormwater drainage</p> <p>SANS 1200 LF 1983 Section LF: Erf connections</p> <p>(water) SANS 1200 M 1996 Section M: Roads</p> <p>(general) SANS 1200 ME 1981 Section ME:</p> <p>Subbase SANS 1200 MJ 1984 Section MJ:</p> <p>Segmented paving</p> <p>SANS 1200 MK 1983 Section MK: Kerbing</p> <p>and channelling2. SANS</p> <p>Standard Specifications*3. OW 371 -</p> <p>Specification of Materials and Methods to be used. Fourth Revision, October 1993.***</p> <p>Not issued with this document, but available at the Contractor's expense from the S A Bureau of Standards, Private Bag x 191, PRETORIA, 0001.** Not issued with this document, but available on the web-site of the Director General, Department of Public Works,</p> <p>&lt;<a href="http://www.publicworks.gov.za/">http://www.publicworks.gov.za/</a>&gt;PROJECT SPECIFICATION CLAUSESFEATURES REQUIRING SPECIAL ATTENTIONSSANS SPECIFICATIONS AND CODES OF PRACTICEIn this document all reference to South African National Standards specifications and codes of practice, or any other standard specifications or codes of practice, including National Building Regulations, shall will deemed to be references to the latest issues of such specifications and codes.TESTING AND QUALITY CONTROLThe Contractor shall engage the services of an approved independent laboratory or other institution as applicable for quality testing, in order to ensure that his work complies with the specifications.No separate payment will be made for such testing, the cost will be deemed to be included in the Contractor's rates for the items of work that require testing in accordance with the Specifications.The onus to produce work that conforms to the requirements of the Specifications and Drawings regarding quality and accuracy of detail, rests upon the Contractor and he will, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times.The cost of supervision</p>			
Carried to Collection		R	
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>and process control, including testing carried out by the Contractor, will be deemed to be included in the rates bid for the related items of work. The Contractor's attention is drawn to the provisions of the various Specifications regarding the minimum frequency of testing required. The Contractor shall increase this frequency at his own discretion, to ensure adequate control where necessary. On completion and submission of every part of the work to the Engineer for examination, the Contractor shall furnish the Engineer with the results of the relevant tests to indicate compliance with the Specifications.</p> <p><b>USE OF EXPLOSIVES</b> The use of explosives for breaking up rock and hard material is not allowed due to the close proximity of existing buildings.</p> <p><b>WORK IN RESTRICTED AREAS</b> Notwithstanding any reference in any specification to work in restricted areas, no additional payment will be made for work in restricted areas. The Contractor will be deemed to have included any cost relating to work in restricted areas in the tendered rates.</p> <p><b>WORKMANSHIP AND QUALITY CONTROL</b> The onus to produce work that conforms to the requirements of the Specifications and Drawings regarding quality and accuracy of detail, rests upon the Contractor and he will, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times. The cost of supervision and process control, including testing carried out by the Contractor, will be deemed to be included in the rates tendered for the related items of work. The Contractor's attention is drawn to the provisions of the various Specifications regarding the minimum frequency of testing required. The Contractor shall, at his own discretion, increase this frequency to ensure adequate control where necessary. On completion and submission of every part of the work to the Engineer for examination, the Contractor shall furnish the Engineer with the results of the relevant tests to indicate compliance with the Specifications.</p> <p><b>GENERAL MATERIALS QUALITY</b> All manufactured materials supplied shall be new materials</p>			
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>unless the contrary is specified. All materials specified in accordance with SABS Specifications shall bear the SABS mark, whether so specified or not."ORDERING OF MATERIALSThe quantities set out in the Bill of Quantities have been carefully determined from calculations based on data available at the time and should therefore be considered to be approximate quantities only. Before ordering materials of any kind, the Contractor shall check with the Engineer whether or not the scope of the work for which the materials are required is likely to change substantially. No liability or responsibility whatsoever shall be attached to the Employer for materials ordered by the Contractor except when ordered in accordance with written confirmation issued by the Engineer."</p> <p>CONSTRUCTIONPROTECTION OF OVERHEAD AND UNDERGROUND SERVICESLOCATION AND PROTECTION OF EXISTING SERVICESLocation of existing servicesBefore underground or excavation work is carried out, the Contractor shall ascertain the presence and position of all services likely to be damaged or interfered with by his activities. The Contractor shall determine the exact position of such services by means of suitable detecting equipment and afterwards by careful hand excavation where necessary in order to expose the services at the positions of possible interference by his activities. This procedure shall also be followed in respect of services not shown on the plans but believed to be present.All such services, the positions of which have been located at the critical points, shall be designated as 'known' services and their positions shall be indicated on a separate set of Drawings, a copy of which shall be furnished to the Engineer.While he is occupying the Site, the Contractor shall be liable for all damage caused by him to known services as well as for consequential damage, whether caused directly by his operations or by the lack of proper protection.Protection during repair modification and maintenance workThe Contractor will exercise all the necessary care to prevent damage to known services. Major excavating equipment and other plants will not be operated dangerously close to these services. Where necessary, excavation in close proximity to these</p>			
Carried to Collection		R	
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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>services shall be carefully carried out with suitable hand tools, excluding picks wherever their use could damage the services. No additional payment will apply to such more difficult work.Services left exposed shall be suitably protected from damage.Alterations and repairs to existing servicesUnless the contrary is clearly specified or ordered, the Contractor shall not carry out alterations to existing services. When this is necessary, the Contractor shall inform the Engineer, who will either make arrangements for such work to be executed by the owner of the service, or instruct the Contractor to make such arrangements himself.When existing services are damaged by the Contractor, he shall immediately inform the Engineer, or when this is not possible, the relevant authority, and obtain instructions as to who should carry out repairs. In urgent cases, the Contractor shall take the necessary steps to minimise damage to and interruption of the service. No repairs of telecommunication cables or electric power lines and cables shall be attempted.The Employer will accept no liability for damages due to a delay in having such alterations or repairs affected. The Contractor shall provide all reasonable opportunity, access and assistance to persons carrying out alterations or repairs of existing services.TOLERANCESGENERALNo guarantee is given that the full specified tolerances will be available independently of each other, and the Contractor is cautioned that the liberal or full use of any one or more of the tolerances may deprive him of the full or any use of tolerances relating to other aspects of the work.Except where the contrary is specified or when clearly not applicable, all quantities for measurement and payment shall be determined from the 'authorised' dimensions. These are specified dimensions or those shown on the Drawings or, if changed, as finally prescribed by the Engineer, without any allowance for the specified tolerances. Except if otherwise specified, all measurements for determining quantities for payment will be based on the 'authorised' dimensions.If the work is therefore constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, quantities will be based on the 'authorised' dimensions regardless of the actual dimensions to which the work has been constructed.When the work is not</p>			
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Item	Quantity	Rate	Amount
constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, the Engineer may nevertheless, at his sole discretion, accept the work for payment. In such cases no payment shall be made for quantities of work or material in excess of those calculated for the 'authorised' dimensions, and where the actual dimensions are less than the 'authorised' dimensions minus the tolerance allowed, quantities for payment shall be based on the actual dimensions as constructed."TESTING"The Contractor shall obtain the services of an independent testing laboratory at his own expense (refer PS1.2 of the Project Specifications) to carry out the checks prescribed in the various Standardised Specifications."			
<b><u>ROADSWAYS, PARKING AND WALKWAYS</u></b>			
<b><u>CONCRETE WALKWAYS</u></b>			
<b><u>EARTHWORKS</u></b>			
<b><u>Excavations</u></b>			
<b><u>Excavate in pickable material not exceeding 2 m deep below natural or reduced ground level (Labour-intensive)</u></b>			
1 Trenches.	m3	92	
2 Reduce levels under surface beds.	m3	66	
3 150mm Deep over site between buildings, retaining walls, etc to remove top soil and depositing excavated material in prescribed stock piles on site	m3	66	
<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>			
4 Soft rock.	m3	9	
5 Hard rock.	m3	5	
Carried to Collection			R
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**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Garden soil filling obtained from the excavations and/or prescribed stock piles on site</u></b>			
1	Spread over site	m3	66	
	<b><u>Extra over all excavations for carting away:</u></b>			
2	Extra over all excavations for carting surplus excavated material and spreading, levelling and lightly compacting on site where directed average 150 m from the excavations (Measured Nett - No Allowance made for bulking).	m3	158	
	<b><u>Compaction of surfaces</u></b>			
3	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	531	
	<b><u>Risk of collapse of excavations:</u></b>			
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	294	
	<b><u>Keeping excavations free of water:</u></b>			
5	Keeping excavations free from mud and all water including subterranean sources.	Item		
	<b><u>FILLING, ETC</u></b>			
	<b><u>G7 Earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>			
6	Backfilling to trenches, holes, etc.	m3	39	
7	Under concrete surface beds in accordance with SABS 1200 DM compacted in max 150mm thick layers to 93% Mod AASHTO density.	m3	178	
	Carried to Collection			R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>G5 earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>			
1	Under concrete surface beds in accordance with SABS 1200 DM compacted in 150mm thick layers to 95% Mod AASHTO density.	m3	66	
	<b><u>Prescribed density tests on filling</u></b>			
2	"Modified AASHTO Density" test on fill material.	No	25	
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES AND FORMWORK</u></b>			
	<b><u>Concrete mix for general concrete works, composed of 1 part cement ; 3 parts sand and 3 parts 19mm stone producing a strength of 20-29MPa using 60L water per 2 bags cement. Cement is to be manufactured in accordance with SANS 50197-1.</u></b>			
	<b><u>25 MPa/19mm concrete</u></b>			
3	Surface beds cast in panels to falls and ramps.	m3	57	
4	Footings to walls (Provisional).	m3	28	
5	Concrete infill to cavity walls cast in cavities of 250mm brick walls	m3	4	
6	Stairs including landings, beams and inverted beams	m3	4	
	<b><u>Thicken out surface beds, etc.</u></b>			
7	Thicken out edge of 100mm thick apron to a total thickness of 142mm for a width of 300mm, including all necessary excavation, surface preparation, additional concrete and formwork (formwork to exposed edges elsewhere measured).	m	48	
	<b><u>CONCRETE SUNDRIES</u></b>			
	Carried to Collection			R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>			
1	Surface beds to falls.	m2	438	
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP Work Group No 111)</u></b>			
	<b><u>Smooth Formwork to Sides:</u></b>			
2	Stepped outer edges of stairs	m2	1	
3	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	36	
	<b><u>MOVEMENT JOINTS, ETC.</u></b>			
	<b><u>ISOLATION JOINTS</u></b>			
	<b><u>Isolation Joints</u></b>			
4	Low density (33kg/m³), cross linked, closed cell, expanded polyethylene joint former, size 100 x 12mm thick with tear off strip fitted to isolation joints in concrete surface with adhesive as per adhesive manufacturer's recommendation.	m	336	
	<b><u>Approved polyurethane elastometric adhesive/sealant colour Concrete Grey applied in accordance with the manufacturer's instructions.</u></b>			
5	12 x 10mm Deep in isolation joints in floors or walls including raking out expansion joint filler as necessary.	m	336	
	<b><u>CONSTRUCTION JOINTS</u></b>			
	<b><u>Vertical construction joints through concrete including thick cement slurry to one face:</u></b>			
6	Surface beds not exceeding 300mm thick.	m	18	
	<b><u>EXPANSION JOINTS</u></b>			
	Carried to Collection			R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Joint forming material in movement joints:</u></b>				
1	12mm Bitumen impregnated fibre board built in vertically or horizontally between brick skins (Provisional).	m2	9		
	<b><u>Approved two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>				
2	12mm joints in floors or walls including raking out expansion joint filler as necessary (Provisional)	m	41		
	<b><u>REINFORCEMENT(Provisional)</u></b>				
	<b><u>Fabric reinforcement in surface beds:</u></b>				
3	Type 395 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 3,95 kg/m <sup>2</sup> with nominal 8mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (measured net)	m2	438		
	<b><u>Fabric reinforcement in walls:</u></b>				
4	Type 617 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 6,17 kg/m <sup>2</sup> with nominal 10mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	203		
	<b><u>Mild steel reinforcement to structural concrete work:</u></b>				
5	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	555		
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
6	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	2,125		
	Carried to Collection				
	Section No. 4 - External Works				R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>CONCRETE TESTING</u></b>				
1	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional).	No	25		
	<b><u>BRICKWORK</u></b>				
	<b><u>BRICKWORK IN FOUNDATIONS (PROVISIONAL)</u></b>				
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class II mortar:</u></b>				
2	250mm hollow walls of two half brick skins with and including 200mm long x 100mm wide wire butterfly ties centrally placed and staggered at 5 ties per metre squared of face.	m2	203		
	<b><u>SANDSTONE WALLS</u></b>				
3	Extra over brick walls for sandstone facings externally size 220 x 73 x 105mm Wide in cement mortar finished fair and pointed both sides as described.	m2	125		
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
	<b><u>One layer of 250 micron USB green waterproof sheeting sealed at laps with pressure sensitive tape</u></b>				
4	Under surface beds	m2	460		
	<b><u>PAINTWORK</u></b>				
	<b><u>BALUSTRADES</u></b>				
Carried to Collection					R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Mild steel balustrades</u></b>			
1	Balustrade, 1000mm high, formed of 50 x 5mm stainless steel flat bar posts welded and bolted with 100 x 150 x 6mm thick stainless steel base plate bolted to concrete, 2 x 50 x 25mm thick rectangular hollow section horizontal rails welded with 20 x 20mm stainless steel square hollow section vertical rails at 120mm centres welded and 50mm diameter x 2,5mm thick handrail welded (Refer to drawing 1052/50-07)	m	128	
	<b><u>PRECAST CONCRETE PARKING AND WALKWAYS</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>Excavation not exceeding 2m deep</u></b>			
2	150mm Deep over site between buildings, retaining walls, etc to remove top soil and depositing excavated material in prescribed stock piles on site	m3	21	
3	Over site between buildings, retaining walls, etc to reduce levels and depositing excavated material in prescribed stock piles on site	m3	42	
	<b><u>Extra over bulk excavation in earth for excavation in</u></b>			
4	Soft rock	m3	5	
5	Hard rock	m3	5	
	<b><u>Garden soil filling obtained from the excavations and/or prescribed stock piles on site</u></b>			
6	Over site	m3	21	
	Carried to Collection			R
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Extra over all excavations for carting away</u></b>				
1	Surplus material from stock piles on site to a dumping site to be located by the contractor	m3	42		
	<b><u>Keeping excavations free of water</u></b>				
2	Keeping excavations free of all water other than subterranean water		Item		
	<b><u>Road bed preparation</u></b>				
	<b><u>Compaction of surfaces</u></b>				
3	Compaction of reduced ground surface under pavings 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	141		
	<b><u>LAYERWORK</u></b>				
	<b><u>Selected layer</u></b>				
4	G7 Selected layer in accordance with SABS 1200 M TABLE 3B imported by the contractor in layers not exceeding 150 mm, compacted to 93% Modified AASHTO maximum density.	m3	42		
	<b><u>Subbase</u></b>				
5	C3 Stabilised Subbase in accordance with SABS 1200 M TABLE 7 consisting of G5 quality material imported by the contractor in layers not exceeding 150 mm, stabilise with 2.5% by mass of stabilising agent (32.7N Cement) and compacted to 96% Modified AASHTO maximum density.				
	General guide: Based on G5 material as 2050kg/m3 Cement required = 51.25kg/m3	m3	21		
	Carried to Collection			R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Prescribed density tests on filling</u></b>				
1	"Modified AASHTO Density" test on fill material	No	15		
2	"Field Density" test including "Optimum Moisture Content" (four readings per test) on layer work	No	2		
	<b><u>Precast concrete block road surfacing</u></b>				
	<b><u>Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications</u></b>				
3	60mm Thick Class 30/2.0 (SANS 1058:2012) S-D concrete paving blocks laid to strecher bond pattern on 20mm (thickness after final compaction) clean river bedding sand (SANS 1200MJ 3.3).	m2	141		
	<b><u>Paving Sundries</u></b>				
4	Clean sand is to be swept into joints between paving blocks.	m2	141		
	<b><u>BUILDERS WORK TO GENERATOR PLINTH</u></b>				
	<b><u>CONCRETE SLAB</u></b>				
	<b><u>EARTHWORKS</u></b>				
5	Reduce levels under surface beds.	m3	2		
	<b><u>Road bed preparation</u></b>				
6	Scarify in-situ road bed surface to a depth of 150 mm and compact to 93% Modified AASTO density at optimum moisture content.	m2	10		
	Carried to Collection			R	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>G6 Earth filling supplied by the contractor compacted to 95% Mod AASHTO density:</u></b>				
1	Backfilling to trenches, holes, etc.	m3	2		
	<b><u>Sundries</u></b>				
2	Cart away surplus excavated material.	m3	2		
	<b><u>Prescribed density tests on filling</u></b>				
3	"Modified AASHTO Density" test on fill material.	No	3		
	<b><u>Concrete mix for general concrete works, composed of 1 part cement ; 3 parts sand and 3 parts 19mm stone producing a strength of 20-29MPa using 60L water per 2 bags cement. Cement is to be manufactured in accordance with SANS 50197-1.</u></b>				
	<b><u>25 MPa/19mm concrete</u></b>				
4	Slabs, including beams and inverted beams	m3	4		
	<b><u>Test blocks:</u></b>				
5	Making and testing 150 x 150 x 150 mm concrete strength test cube (Provisional)	No	6		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<b><u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u></b>				
6	Surface beds to falls.	m2	16		
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP Work Group No 111)</u></b>				
	<b><u>Smooth Formwork to Sides:</u></b>				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	13		
	Carried to Collection				
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Smooth Formwork to Sides and Soffits:</u></b>				
1	Ground beams	m2	6		
	<b><u>Extra on smooth formwork to soffits for boxing or blocking in or boxing out to form:</u></b>				
2	110mm Diameter opening through 150mm thick slab (Provisional).	No	2		
	<b><u>Boxing in smooth formwork to form:</u></b>				
3	25 x 25mm Chamfer along top edge.	m	35		
	<b><u>Galvanised pipes</u></b>				
4	25mm Drain pipe	m	1		
5	22 mm Brass bibtap.	No	1		
	<b><u>REINFORCEMENT(Provisional)</u></b>				
	<b><u>Fabric reinforcement</u></b>				
6	Type 395 standard square fabric mesh reinforcement in surface beds, slabs, etc, nominal mass 3,95 kg/m <sup>2</sup> with nominal 8mm thick wires and 200 x 200mm pitch, complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long. (measured net)	m2	10		
	<b><u>High tensile steel reinforcement to structural concrete work:</u></b>				
7	Steel rod reinforcement of varying diameters to bottom, walls and slab	kg	188		
	<b><u>GENERAL BUILDERS WORK TO ELECTRICAL INSTALLATIONS</u></b>				
Carried to Collection					R
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Item		Quantity	Rate	Amount
<b><u>Supply, deliver and install cable sleeves and slow bends in concrete surface beds and or trenches as specified.</u></b>				
1	110 mm diameter (UPVC) sleeves including trenching, backfilling, etc. 800mm deep x 500mm wide	m	90	
2	110 mm diameter (UPVC) Slow Bend	No	8	
3	50 mm diameter (UPVC) including trenching, backfilling, etc. 800mm deep x 500mm wide	m	60	
4	50 mm diameter (UPVC) Slow Bend	No	4	
5	32 mm diameter (UPVC) including trenching, backfilling, etc. 800mm deep x 500mm wide	m	40	
6	32 mm diameter (UPVC) Slow Bend	No	10	
7	100 mm diameter (Galvanised) sleeves including trenching, backfilling, etc. 800mm deep x 500mm wide	m	40	
8	Allow for core drilling through existing 540mm thick sandstone/brick walls for new 50mm sleeves	No	10	
9	Allow for core drilling through existing 540mm thick sandstone/brick walls for new 110mm sleeves	No	5	
10	Allow for breaking up concrete floors for new 110mm sleeves	m	5	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Inspection manholes including excavations, concrete bottoms, brick sides, concrete cover slabs and cast iron covers and frames</u></b>				
1	Manhole size 750 x 750 mm not exceeding 1000mm deep internally to invert level formed of 150mm thick cast insitu base slab and walls steel floated (25 MPa at 28 days in 19 mm stone) with ref 617 steel mesh reinforcing to centre of walls and base including lapping 400mm into base slab, fitted with and including ductile iron 450 x 450mm lockable cover and frame, cast into insitu concrete and bedded in 1:3 cement mortar and sealed in tallow including all necessary fittings, excavations, formwork, holes through sides for pipes, etc	No	4	
<b><u>STRUCTURAL STEEL CANOPIES</u></b>				
SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----				
2	Allow the sum of R450,000.00 (Four Hundred and Fifty Thousand Rand) for the Supply and Installation of the structural steel canopies to be executed complete by a specialist subcontractor.		Item	450,000.00
3	Allow for profit.		Item	
4	Allow for attendance.		Item	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>				
<b><u>BILL NO. 5</u></b>				
<b><u>LANDSCAPING AND FENCING (PROVISIONAL)</u></b>				
<b><u>PREAMBLES</u></b>				
For Preambles see "Specification of materials and methods to be used - PW 371"				
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<b><u>REMOVAL OF EXISTING WORK</u></b>				
<b><u>Taking down and removing</u></b>				
1	Palisade fence 2.4m high complete fixed between brick columns	m	176	
2	Precast concrete boundary wall average 2,0m high including concrete posts	m	43	
3	Remove existing single palisade gate	No	1	
4	Remove existing double palisade gate	No	2	
<b><u>PALISADE FENCING (PROVISIONAL)</u></b>				
<b><u>EXCAVATION, ETC</u></b>				
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
5	Surface trenches and ground beams	m3	10	
6	Bases	m3	14	
Carried to Collection				R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
1	Soft rock	m3	2	
2	Hard rock	m3	1	
	<b><u>Extra over all excavations for carting away</u></b>			
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	23	
	<b><u>Risk of collapse of excavations</u></b>			
4	Sides of trench and hole excavations not exceeding 1,5m deep	m2	68	
	<b><u>Keeping excavations free from water</u></b>			
5	Keeping excavations free from mud and all water other than from subterranean sources	Item		
	<b><u>FILLING, ETC</u></b>			
	<b><u>G7 Earth filling supplied by the contractor compacted to 93% Mod AASHTO density</u></b>			
6	Backfilling to trenches, holes, etc	m3	10	
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<b><u>25 MPa/19mm concrete</u></b>			
7	Strip footings(Provisional)	m3	3	
8	Bases.	m3	7	
	Carried to Collection			
	Section No. 4 - External Works			
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**14MPa nominal compressive strength Imperial NFX loadbearing perforated plaster brick, size 222 x 73 x 106mm, manufactured in accordance with SANS 227:2007, laid in superstructure walls to single storey building and bedded and jointed in Class I mortar. Mortar in accordance with SANS 50197-1:2002 Cement Part 1: Composition, specification and conformity criteria for common cements, in mortar Class 1 to be mixed to the ratio of 1 part cement : 4 parts sand, (sand to conform to SANS 1083:2006) to highly stressed masonry, incorporating high structural units.**

2	One brick walls	m2	8
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**Facebricks prime cost R 7 250.00 per thousand  
excluding VAT delivered to the site pointed with  
flush horizontal and vertical joints**

4	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m2	45
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5	220mm Wide brick on edge course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	16
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6	Approved high tensile steel brick reinforcement 155 mm wide well lapped at all angles and passings and built into brick walls every fourth course	m	269
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## Carried to Collection

Section No. 4 - External Works  
Bill No. 5  
Landscaping and Fencing (Provisional)  
CLARENCE BOBIE INCORPORATED

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Joint forming material in movement joints</u></b>			
1	12mm Bitumen impregnated fibre board built in vertically between brick skins	m2	2	
	<b><u>JOINT SEALANTS, ETC</u></b>			
	<b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>			
2	10 x 10mm In expansion joints in floors or walls including raking out expansion joint filler as necessary (Provisional)	m	13	
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>			
	<b><u>One layer of 375 micron embossed damp proof course</u></b>			
3	In walls	m2	5	
	<b><u>PRECAST CONCRETE COPINGS, SILLS, ETC</u></b>			
	<b><u>Approved standard uncoloured blocks finished smooth, including bedding on brickwork, jointing and pointing on all exposed surfaces</u></b>			
4	540 x 540 x 200 mm Thick overall copings four times weathered on top to 100 mm thick along both edges with drip groove in bottom along all edges refer to drawing No. 2.01	No	6	
	<b><u>CLEARVU FENCING OR SIMILAR APPROVED</u></b>			
	Carried to Collection		R	
	Section No. 4 - External Works Bill No. 5 Landscaping and Fencing (Provisional) CLARENCE BOBIE INCORPORATED			

**CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Galvanised and coated mild steel security fencing</u></b>			
1	<p>ClearVu or similar approved high density anti-climbing and anti-cut pressed mesh panel fencing 2,4m high <b>fitted between existing brick columns</b>, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with coating with aperture size 76,2mm x 12,7mm and panels reinforced with 4 x 50mm deep V formation horizontal recessed bands and 2 x 75mm 70 degree flanges along sides, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post 2,4m including Locking Recess Mechanism at 3,382m centres with UV stabilised polymer sealed end caps and 30 x 3mm x 250mm long angle section base anchors.</p> <p>Top of fence fitted with approved 100mm high coated 'shark tooth' type spike.</p>	m	164	
2	<p>ClearVu or similar approved high density anti-climbing and anti-cut pressed mesh panel fencing 2,4m high, formed of 3mm diameter horizontal and 4mm diameter vertical high tensile wires galvanised with coating with aperture size 76,2mm x 12,7mm and panels reinforced with 4 x 50mm deep V formation horizontal recessed bands and 2 x 75mm 70 degree flanges along sides, bolted with vandal resistant bolts and clamping plates to 85 - 45mm Taper locking post 3,0m including Locking Recess Mechanism at 3,382m centres with UV stabilised polymer sealed end caps and 30 x 3mm x 250mm long angle section base anchors with posts bedded in 15MPa concrete bases size 600 x 400 x 650mm deep with bitumen coated 600mm under-dig.</p> <p>Top of fence fitted with approved 100mm high coated 'shark tooth' type spike.</p>	m	72	
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Gates</u></b>			
1	<p>Single pedestrian gate size 1030 x 2300mm high formed of coated colour Black 76 x 76 x 2mm wall thickness square section framing covered with ClearVu or similar approved Marine Fusion Bond coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing size 878 x 2 148 mm high and horizontal flatbar with 2 x 75mm 70° flanges along sides and 2 x 30° flanges along top and toe, all bolted with vandal resistant bolts and clamping plates to frame; the gate fitted with three eyebolt hinges, stops and one 16mm diameter solid galvanised mild steel locking padbolt and with 76 x 76 x 2mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, including drilling gate post for keep hole, etc.</p> <p>Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.</p>	No	2	
2	<p>Double vehicle gate overall size 3069 x 2350mm high in two equal leafs, each leaf formed of coated colour Black 40 x 40 x 3mm wall thickness square section framing covered with ClearVu or similar approved coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing size 1537 x 2270mm high and horizontal flatbar with 2 x 75mm 70° flanges along sides and 2 x 30° flanges along top and toe, all bolted with vandal resistant bolts and clamping plates to frame; each gate leaf to be fitted with two eyebolt hinges, stops and one 16mm diameter solid galvanised mild steel locking padbolt with 40 x 40 x 3mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, and 16mm diameter x 450mm long galvanised towerbolt fixed to bottom of gate including all drilling of gate post for keep hole, etc., fixed to existing brick columns</p> <p>Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.</p>	No	1	
	Carried to Collection			R
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Sliding gate overall size 3354 x 2300mm high formed of coated colour Black 76 x 76 x 2mm wall thickness square section framing covered with ClearVu or similar approved coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing ; gate fitted with and including a pair of suitable gate wheels on fixing brackets welded to bottom rail and one 16mm diameter solid galvanised mild steel locking padbolt with 76 x 76 x 2mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, and 16mm diameter x 450mm long galvanised towerbolt fixed to bottom of gate including all drilling of gate post for keep hole, etc.			
	Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.	No	2	
2	Sliding gate overall size 4863 x 2300mm high formed of coated colour Black 76 x 76 x 2mm wall thickness square section framing covered with ClearVu or similar approved coating colour Dark Grey Reinforced high density anti-climbing and anti-cut pressed mesh panel fencing ; gate fitted with and including a pair of suitable gate wheels on fixing brackets welded to bottom rail and one 16mm diameter solid galvanised mild steel locking padbolt with 76 x 76 x 2mm wall thickness square section framing welded around locking bar to gate for fixing of wire mesh, and 16mm diameter x 450mm long galvanised towerbolt fixed to bottom of gate including all drilling of gate post for keep hole, etc.			
	Top of gate fitted with approved 100mm high coated 'shark tooth' type spike.	No	1	
3	Approved heavy duty padlock	No	6	
4	500 x 500 x 750mm Deep 20MPa mass concrete keep block with two 19mm diameter x 100mm long galvanised locating sleeve cast into top, including all necessary excavation, formwork, etc	No	4	
<b><u>LANDSCAPING</u></b>				
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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Grassing of sods</u></b>			
1	"Kikuyu" grass in sods approximately 300 x 300 x 75mm thick, closely packed and top dressed as necessary to even surfaces.	m2	300	
	<b><u>Maintenance</u></b>			
2	Maintenance of grassed areas for a period of 6 months including regularly weeding and irrigating as necessary.	Item		
	<b><u>REMOVAL OF TREES, ETC.</u></b>			
	<b><u>Cutting down and removing, grubbing up roots and filling in holes</u></b>			
3	Tree exceeding 200mm and not exceeding 500mm girth	No	2	
4	Tree exceeding 500mm and not exceeding 1000mm girth	No	3	
5	Tree exceeding 1000mm and not exceeding 1500mm girth	No	4	
6	Tree exceeding 1500mm and not exceeding 2000mm girth	No	4	
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Landscaping and Fencing (Provisional)

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 4</u></b>			
<b><u>BILL NO. 6</u></b>			
<b><u>DECANTING ~ TEMPORARY ACCOMMODATION (PROVISIONAL)</u></b>			
<b><u>PREAMBLES</u></b>			
For Preambles refer to "Department of Public Works: Specification of materials and methods to be used - PW371"			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Proprietary products in descriptions</u></b>			
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent			
<b><u>TEMPORARY ACCOMMODATION</u></b>			
SELECTED SUB-CONTRACTS The following selected sub-contract amounts are for work to be carried out in terms of Clause 21 of the Principal Building Agreement - -----			
<b><u>The following in approved prefabricated stand alone mobile unit type offices and containers placed on jacks on concrete pads</u></b>			
1	Allow the sum of R450,000.00 (Four Hundred and Fifty Thousand Rand) for the Supply and Installation of temporary units to be executed complete by a specialist subcontractor.	Item	450,000.00
2	Allow for profit.	Item	
Carried to Collection			R
Section No. 4 - External Works Bill No. 6 Decanting (Provisional) CLARENCE BOBIE INCORPORATED			

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FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
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Item		Quantity	Rate	Amount
<b><u>SECTION NO. 4</u></b>				
<b><u>BILL NO. 7</u></b>				
<b><u>FLAGPOLES, ETC</u></b>				
<b><u>FLAGPOLES</u></b>				
<b><u>EARTHWORKS (PROVISIONAL)</u></b>				
<b><u>Site Clearance</u></b>				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	5	
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
2	Surface trenches and ground beams	m3	1	
<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>				
3	Soft rock	m3	0.1	
<b><u>Extra over all excavations for carting away</u></b>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	1	
<b><u>Risk of collapse of excavations</u></b>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	4	
<b><u>Keeping excavations free from water</u></b>				
6	Keeping excavations free from mud and all water other than from subterranean sources	Item		
Carried to Collection				R
Section No. 4 - External Works Bill No. 7 Flagpoles, etc CLARENCE BOBIE INCORPORATED				



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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>Flagpole bed preparation</u></b>			
1	Scarify in-situ paved surface to a depth of 150 mm and compact to 93% Modified AASHTO density at optimum moisture content	m2	5	
	<b><u>Subbase</u></b>			
2	Hardcore filling imported by the contractor in layers not exceeding 150 mm, with a CBR less than 15 and a maximum particle size of 100 mm, compacted to 95% Modified AASHTO density at optimum moisture content	m3	2	
	<b><u>Subgrade</u></b>			
3	Selected fill (Sand) in layers not exceeding 150 mm compacted to 93% Modified AASHTO density at optimum moisture content	m3	1	
	<b><u>25/19MPa Mesh Reinforced concrete</u></b>			
4	Bases	m3	1	
	<b><u>Unreinforced Concrete</u></b>			
5	Flagpole bases	m3	0.2	
6	Mesh reinforcing Ref 245	m2	2	
	<b><u>Screed to flagpole base</u></b>			
7	25mm Screed	m2	6	
	<b><u>Sundries</u></b>			
8	25mm Stone/ loose gravel	m3	1	
9	10mm saw cuts including sealing with an approved bitumen sealant	m	4	
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<u>Item</u>			<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	220 x 110 x 50mm brick on edge edging including 25Mpa concrete haunching approximately 500 x 200mm thick	m	27		
	<b><u>FLAGPOLES</u></b>				
	<b><u>Galvanised approved flagpoles</u></b>				
2	6m Long flagpole including pully and ropes	No	2		
	<b><u>PAVING</u></b>				
	Approved clay brick paving				
3	220 x 110 x 50mm Brick-on-edge edging in paved surfaces	m2	9		
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Section No. 4 - External Works					
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CLARENCE BOBIE INCORPORATED					

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 5</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>EMPLOYMENT OF LOCAL RESOURCES - PROVIDE EMPLOYMENT OPPORTUNITIES TO TARGETED LABOUR (PROVISIONAL)</u></b>			
<b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L1</u></b>			
<b><u>LOCAL RESOURCES AND LABOUR</u></b>			
<u>It is an express condition of Contract that only local people (resident within the Elliot area) may be employed on the contract. Provided that adequate labour is not available from the local area, other labour may be employed/imported subject to satisfactory proof being provided that every effort was made to employ local residents. The contractor shall liaise with the CLO and local authorities, and negotiate with them about the employment of local labour in the building process. The contractor shall in general maximize the involvement of local communities.</u>			
<u>The above-mentioned condition does not apply to the contractors permanent managerial staff, and specialist related work, eg. blasting of rock, etc.</u>			
<u>Detailed records of actual labour employed on site shall be submitted to the Principal Agent on a monthly basis.</u>			
<b><u>L1.1 LABOUR RISK ASSESSMENT</u></b>			
1	Compilation of the risk assessment report required including all handling costs and profit.	Item	
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Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 1 Local Labour (Provisional) CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<b><u>L1.2 EMPLOYMENT</u></b>			
1	Management and execution obligations for the employment, job forecast scheduling and monthly update submissions required, including all handling costs and profit.	months 24		
	<b><u>L1.3 RECRUITMENT</u></b>			
2	Management and execution obligations for the targeted recruitment process, monthly labour requisitions and achieving of minimum employment targets required, including all handling costs and profit.	months 24		
	<b><u>L1.4 WAGES</u></b>			
3	Management and execution obligations for the compilation of job & wage schedules and wage payment processes required, including all handling costs and profit.	months 24		
	<b><u>L1.5 EMPLOYMENT CONTRACTS</u></b>			
4	Management and execution obligations for employment contracts, including all handling costs and profit.	months 24		
	<b><u>L1.6 LABOUR MOBILISATION &amp; DEMOBILISATION</u></b>			
5	Management and provisions for mobilisation and demobilisation costs of employed personnel, including all handling costs and profit.	months 24		
Carried to Collection				R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 1 Local Labour (Provisional) CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 5</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>EMPLOYMENT OF A COMMUNITY LIAISON OFFICER (PROVISIONAL)</u></b>				
<b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L2</u></b>				
<b><u>COMMUNITY LIAISON OFFICER</u></b>				
<b><u>Immediately prior to site establishment, the Main Contractor must employ the services of a Community Liaison Officer (CLO) on a full-time basis for the full duration of the construction contract, through a recruitment process facilitated by the Implementing Agent.</u></b>				
<b><u>COMMUNITY LIAISON OFFICER:</u></b>				
1	Allowance for the remuneration of a Community Liaison Officer.  (R 8500.00 per month for 24 months + 13th Cheques)	Item		425,000.00
2	Allowance for the CLO Statutory Contributions.	Item		115,000.00
3	Management and provision of all necessary tools of trade for the Community Liaison Officer, by the contractor, including all handling costs and profit.	24	months	
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Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 2 Community Liaison Officer (Provisional) CLARENCE BOBIE INCORPORATED				



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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>SECTION NO. 5</u></b>  <b><u>BILL NO. 3</u></b>  <b><u>TRAINING AND DEVELOPMENT INTERVENTIONS (PROVISIONAL)</u></b>  <b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L3.1</u></b>  <b><u>DEVELOPING SKILLS THROUGH INFRASTRUCTURE CONTRACTS</u></b>  <u>Implementation of the Standard for Developing Skills through Infrastructure Contracts (CSDG), for contractors, to achieve full compliance to the Construction Industry Development Board Act, 2000 (Act no. 38 of 2000), published in Gazette Notice 48491 of 28 April 2023.</u>  <u>This standard establishes a minimum contract skills development goal to be achieved in the performance of a contract in relation to the provision of different types of workplace opportunities, linked to work associated with a contract culminating in or leading to:</u>  <u>Method 1 : structured workplace learning opportunities for learners towards the attainment of a part or a full occupational qualification.</u>  <u>Method 2 : structured workplace learning opportunities for apprentices and/or other artisan learners towards the attainment of a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012), subject to at least 60% of the Artisan Learners being holders of public TVET college qualifications.</u>  <u>Method 3 : work integrated learning opportunities for University of Technology or Comprehensive University students completing their National Diplomas.</u>			
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Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3 Training and Development Interventions (Provisional) CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p><b><u>Method 4 : structured workplace learning opportunities for candidates towards registration in a professional category by a statutory council.</u></b></p> <p><b><u>Employed learners may not account for more than 33 percent of the contract skill development goal.</u></b></p> <p><b><u>Not more than one method may be applied to any individual concurrently in the calculation of the contract skills development goal.</u></b></p> <p><b><u>The Standard for Skills Development is set at a maximum development support of 0.5% of the projects contract value as per the cidb B.U.I.L.D programme.</u></b></p> <p><b><u>PROVISIONS</u></b></p> <p>1 Provisions for Stipends</p> <p>2 Provision for Mentorship</p> <p>3 Provision for addition costs (PPE, Medical Assessments, Course Fee, Assessments and Monitoring)</p> <p>4 Management and provision of all necessary tools of trade for the learners, by the contractor, including all handling costs and profit.</p> <p style="text-align: right;">months 9</p> <p><b><u>(BOOK 1 - PART C3 - C3.6) DELIVERABLE L3.2</u></b></p> <p><b><u>CIDB STANDARD FOR INDIRECT TARGETING FOR ENTERPRISE DEVELOPMENT</u></b></p> <p><b><u>Implementation of the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts (CPGs), published in Gazette Notice No. 36190 of 25 February 2013, and is applicable to contracts in cidb Grades 7 to 9, in the General Building (GB) and Civil Engineering (CE).</u></b></p> <p><b><u>The standard establishes Contract Participation</u></b></p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3 Training and Development Interventions (Provisional) CLARENCE BOBIE INCORPORATED</p>			<p>80,000.00</p> <p>50,000.00</p> <p>50,000.00</p>
			R	

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 ADDITIONAL ACCOMMODATION

Item	Quantity	Rate	Amount
<p><u>Goals (CPGs) for development of targeted enterprises, to promote enterprise development by providing for a minimum of 5% of the total project value on selected contracts to be undertaken by joint-venture partners or to be sub-contracted to developing contractors. The standard requires the lead partner, or the main contractor dedicate a minimum of 5% of the total project value and to provide developmental support to a targeted sub-contractor/s and JV partners.</u></p> <p><u>General</u></p> <ul style="list-style-type: none"> <li>• <u>The main contractor shall within 30 days of the contract coming into effect or the issuing of an order, submit to the employer's representative a contract compliance baseline training plan, taking into account the skills mix and type of workers that are to be engaged;</u></li> <li>• <u>At intervals, not exceeding three (3) months, submit to the employer's representative interim contract compliance training reports; and</u></li> <li>• <u>Shall within 30 days of reaching completion, end of the service, the delivery date for all work required or practical completion in the case of professional service, design and construct contracts, and engineering and construction works contracts, respectively, submit to the employer's representative a final contract compliance training report.</u></li> <li>• <u>The information contained in the final contract compliance training report shall include the contract skills development goal achieved (in Rands or in hours) in the performance of the contract and a breakdown of the goal achieved.</u></li> <li>• <u>The contractor shall keep records of the hours worked and registration particulars in</u></li> </ul> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3              Training and Development Interventions (Provisional)              CLARENCE BOBIE INCORPORATED</p>		R	

CDC/386/24-T ~ ELLIOT MAGISTRATES COURT  
**PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF ENTIRE  
 FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
 ADDITIONAL ACCOMMODATION**

<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p><u>compliance with this standard. The contractor shall allow the employer's representative to inspect or audit such training records at any time.</u></p> <ul style="list-style-type: none"> <li><u>The employer's representative shall undertake suitable random audits on records to confirm compliance with requirements.</u></li> <li><u>The learners shall be directly employed by the contractor or SDA and the contractor may enter into a contract agreement with the cidb SDAs, training provider or skills development facilitator of their choice, participating in the implementation of this standard.</u></li> <li><u>The main contractor shall also submit to the Implementing Agent, monthly CSDG compliance training reports, as well as a final CSDG compliance training report within 15 days of reaching practical completion.</u></li> <li><u>The selection and placement of appropriate trainees/ learners/ candidates shall be in line with the Target Areas identified above. The initial search shall be made from the Project Job Seekers' Database managed by the Implementing Agent.</u></li> </ul> <p><b><u>PROVISIONS</u></b></p>			
1	<p>Management and execution of the obligations for the targeted contract spend process, selection of targeted enterprises, contract agreement compliances, monthly requisitions and achieving of the standard required, including all handling costs and profit.</p>	months	24	
	Carried to Collection		R	
	<p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 3            Training and Development Interventions (Provisional)            CLARENCE BOBIE INCORPORATED</p>			

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FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF  
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Section 5  
Bill No. 3  
Training and Development Interventions (Provisional)

**COLLECTION**

Total from page

<u>Page</u>	<u>Amount</u>
224	
225	
226	
227	

Carried to Summary of Section 5

R

Section No. 5 - Socio-Economic Deliverables (CSDG Incl  
Bill No. 3  
Training and Development Interventions (Provisional)  
CLARENCE BOBIE INCORPORATED

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**FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION OF**  
**ADDITIONAL ACCOMMODATION**

<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>EMPLOYMENT AND TRAINING OF LABOUR ON THE EPWP-NYS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>For Preambles refer to and study the Additional Specification SL:Employment and Training of Labour on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service, as bound elsewhere in the Bills of Quantities, and then price this Bill accordingly</p>			
<p>Carried to Collection</p>		R	
<p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4</p> <p>Employment and Training of Labour on the EPWP-NYS ( CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p>Monthly reporting and administration of the EPWP system including submission of EPWP Reporting System (ERS) beneficiary registration tool to the principal agent on a monthly cycle to reflect employment on a government construction site. Records will include that of reflection of all labour employed by the main contractor personally as well as all the subcontractors on site. A separate sheet, although the same format, will be completed for Local Labour beneficiaries for the sub-contractor (if applicable).</p>			
<p><b><u>TRAINING OF YOUTH WORKERS</u></b> <b><u>(TARGET: 34 YOUTH WORKERS)</u></b></p>			
<p>Carried to Collection</p>		R	
<p>Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED</p>			

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<u>Item</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<b><u>Life skills development and Technical training:</u></b>			
1	Life Skills development training for youth workers for an average of 5 days (ref. SL 11.01.01) Provisional		
	Item		238,000.00
2	Main Contractors Profit and Attendance	Item	
3	Technical Skills and training for youth workers for an average of 45 days (ref. SL 11.01.02)		
	Item		850,000.00
4	Main Contractors Profit and Attendance	Item	
<p><b>The above item is only applicable if DoL does not fund the Technical Training PRIOR to site handover.</b></p> <p><b>Payment reduction due to not meeting the target as in SL 11.01.02</b></p> <p><b>(An amount of R 2000.00 (Two Thousand Rand) will be deducted per youth worker)</b></p> <p><b><u>TRAVELLING AND ACCOMMODATION DURING OFF SITE TRAINING:</u></b></p> <p><b><u>Life skills training for 5 days (ref. SL 11.02.01)</u></b></p>			
5	Travelling (based on R150 / day return trip/facilitator.)	Item	750.00
Carried to Collection			R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED			



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Item		Quantity	Rate	Amount
1	Accommodation (based on 5 nights / week and R800 / facilitator / night)	Item		4,000.00
<b><u>Technical training for 45 days (ref. SL 11.02.02):</u></b>				
2	Travelling (based on R150 / day return trip/facilitator.)	Item		6,750.00
3	Accommodation (based on 5 nights / week and R800 / facilitator (x1) / 39 nights)	Item		36,000.00
<b><u>Tests for Medical Fitness (ref. SL 11.02.03)</u></b>				
4	Provision of General Medical Practitioner or Clinic to examine EPWP youth workers on medical fitness before and after appointment (including COVID 19 PPE).	No	34.00	
5	Main Contractors Profit and Attendance	Item		
<b><u>ALTERNATIVE WORKERS FOR THE PERIOD OF OFF-SITE TRAINING:</u></b>				
6	Life skills training for 5 days (ref. SL 11.03.01)	Item		22,500.00
Carried to Collection				R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED				

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Technical training for youth workers for 45 days (ref. SL 11.03.02)			
		Item		150,000.00
	<b><u>EMPLOYMENT OF YOUTH WORKERS:</u></b>			
	The unit of measurement shall be the number of youth workers at the Ministerial Determination labour rates multiplied by the period employed in months and the rate tendered shall include full compensation for all costs associated with the employment of youth workers and for complying with the conditions of contract. The cost for the training shall be excluded from this item. This item is based on maximum of 9 months appointment for youth workers			
2	Employment of youth workers (off - site training)			
		Item		302,940.00
3	Main Contractors Profit and Attendance			
		Item		
4	Employment of youth workers (on - site training)			
		Item		908,820.00
5	Main Contractors Profit and Attendance			
		Item		
	<b><u>PROVISION OF EPWP PPE, BRANDED OVERALLS &amp; T-SHIRT/GOLF SHIRTS TO YOUTH WORKERS</u></b>			
6	Supply 2 x EPWP/NYS branded overalls, safety shoes, 1 x hard hats, 2 x PWP/NYS branded T-shirts,etc to youth workers (ref. SL 11.05.01) (SABS Branded)			
		Item		54,400.00
	Carried to Collection		R	
	Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED			

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<u>Item</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
1	Main Contractors Profit and Attendance			
		Item		
	<b><u>PROVISION OF SMALL TOOLS FOR YOUTH WORKERS</u></b>			
2	Supply of small tools to all youth workers.			
	Specification to be supplied by the EPWP-NYS Service Provider for the respective trades. (ref. SL 11.06.02)			
	These tools will become the property of the youth workers after the completion of the programme.	Item		61,200.00
3	Main Contractors Profit and Attendance	Item		
	<b><u>PROVISION OF CATERING FOR EXIT WORKSHOP</u></b>			
4	Sourcing of catering company for provision of meals during NYS EXIT Workshop and arrangement of hiring venue for the workshop.	Item		30,000.00
	<b><u>APPOINTMENT OF YOUTH TEAM LEADER/S</u></b>			
5	Appointment of Youth Team Leader/s for the duration of the contract (ref. SL 11.07 )	Item		84,000.00
	<b><u>LIAISON WITH SERVICE PROVIDER</u></b>			
6	Liaison with Service Provider (ref. SL 11.08)			
	<u>The tendered rate shall include full compensation for the cost of liaising with the Service Provider and Social Facilitators on all issues regarding the works. Recorded times of these events are to be produced and agreed to on a monthly basis.</u>	Hrs	200	
	Carried to Collection			R
	Section No. 5 - Socio-Economic Deliverables (CSDG Incl Bill No. 4 Employment and Training of Labour on the EPWP-NYS (CLARENCE BOBIE INCORPORATED			

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SECTION SUMMARY - Section No. 5 - Socio-Economic Deliverables (			
Bill No		Page	Amount
1	Local Labour (Provisional)	222	
2	Community Liaison Officer (Provisional)	223	
3	Training and Development Interventions (Provisional)	228	
4	Employment and Training of Labour on the EPWP-NYS (Provisional)	235	
Carried to Final Summary			R
Section No. 5 - Socio-Economic Deliverables (CSDG Incl CLARENCE BOBIE INCORPORATED			

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<u>Section No</u>	<u>FINAL SUMMARY</u>	<u>Page</u>		<u>Amount</u>
	<b><u>BUILDERS WORK</u></b>			
1	Section No. 1 - Preliminaries	35		
2	Section No. 2 - Demolitions and Alterations	46		
3	Section No. 3 - New Works	154		
4	Section No. 4 - External Works	219		
5	Section No. 5 - Socio-Economic Deliverables (CSDG Included)	236		
	Sub Total		R	
	<b><u>ELECTRICAL AND MECHANICAL INSTALLATION</u></b>			
	<b><u>Electrical</u></b>			
	<b>Add:</b> CCTV, Intercom & Access Control Installation from <u>Book 2 : Part C2 : ITEM C2.3a</u>	Item		
	<b>Add:</b> Standby Generator Installation from <u>Book 2 : Part C2 : ITEM C2.3b</u>	Item		
	<b>Add:</b> Electrical Installation from <u>Book 2 : Part C2 : ITEM C2.3c</u>	Item		
	<b><u>Mechanical</u></b>			
	<b>Add:</b> Booster Pump Installation from <u>Book 2 : Part C2 : ITEM C2.3d</u>	Item		
	<b>Add:</b> Fire Detection Installation from <u>Book 2 : Part C2 : ITEM C2.3e</u>	Item		
	Continued		R	
	CLARENCE BOBIE INCORPORATED			

## Other Pricing Schedules

## **PART T2: RETURNABLE DOCUMENTS**



**SBD 4**

**SBD4****BIDDER'S DISCLOSURE****1. PURPOSE OF THE FORM**

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

**2. Bidder's declaration**

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>2</sup> in the enterprise,  
employed by the state? **YES/NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

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<sup>2</sup> the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

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2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....  
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....  
.....

**3 DECLARATION**

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the

<sup>3</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

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bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON ENHANCING COMPLIANCE, TRANSPARENCY AND ACCOUNTABILITY IN SUPPLY CHAIN MANAGEMENT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....	.....
Signature	Date
.....	.....
Position	Name of bidder

## **SBD 6.1**

## SBD 6.1

## PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

**NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022**

## 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **To be completed by the organ of state**

*(delete whichever is not applicable for this tender).*

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	
SPECIFIC GOALS	
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

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- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

## **2. DEFINITIONS**

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

## **3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES**

### **3.1. POINTS AWARDED FOR PRICE**

#### **3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS**

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 \\
 \mathbf{Ps} = \mathbf{80} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right)
 \end{array}$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

**3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT****3.2.1. POINTS AWARDED FOR PRICE**

A maximum of 80 or 90 points is allocated for price on the following basis:

**80/20                      or                      90/10**

$$Ps = 80 \left( 1 + \frac{Pt - P_{max}}{P_{max}} \right) \text{ or } Ps = 90 \left( 1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

**4. POINTS AWARDED FOR SPECIFIC GOALS**

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
  - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.



**Table 1: Specific goals for the tender and points claimed are indicated per the table below.**

**(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.**

**Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)**

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)

#### DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium  
☐ One-person business/sole propriety  
☐ Close corporation  
☐ Public Company  
☐ Personal Liability Company  
☐ (Pty) Limited  
☐ Non-Profit Company  
☐ State Owned Company  
 [TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

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- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
  - (a) disqualify the person from the tendering process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution, if deemed necessary.

.....  
**SIGNATURE(S) OF TENDERER(S)**

**SURNAME AND NAME:** .....

**DATE:** .....

**ADDRESS:** .....

.....

.....

.....

### T2.1.1 FORM A: Authority for Signatory

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for the relevant category.

<b>A</b> <b>Company</b>	<b>B</b> <b>Partnership</b>	<b>C</b> <b>Joint Venture</b>	<b>D</b> <b>Sole Proprietor</b>	<b>E</b> <b>Close Corporation</b>

#### A. Certificate for Company

I, ....., chairperson

of the board of .....,

hereby confirm that by resolution of the board (copy attached) taken on

..... 20....., Mr/Ms .....

acting in the capacity of ....., was authorised to sign all documents in connection with this tender for Contract No. CDC/386/24-T and any contract resulting from it on behalf of the company.

#### As witnesses:

1. ....

Chairman: .....

2. ....

Date: .....

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**B. Certificate for Partnership**

We, the undersigned, being the key partners in the business trading as .....

....., hereby authorise

Mr/Ms .....,

acting in the capacity of .....

....., to sign all documents in connection with this tender for

Contract No CDC/217/23 and any contract resulting from it on our behalf.

Name	Address	Signature	Date

*Note: This certificate is to be completed and signed by all key partners upon whom rests the direction of the affairs of the Partnership as a whole.*

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**C. Certificate for Joint Venture (Continue)**

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise

Mr/Ms ....., authorised signatory of the company

....., acting in the capacity of lead

partner, to sign all documents in connection with this tender for Contract No **CDC/386/24** any contract resulting from it on our behalf.

This authorisation is evidenced by the attached power of attorney signed by legally authorised signatories of all the partners to the Joint Venture.

Name of Firm	Address	Authorizing Name and Capacity	Authorizing Signature

**D. Certificate for Sole Proprietor**

I, ....., hereby confirm that I am

the sole owner of the business trading as .....

**As witnesses:**

1. ....

Sole Owner: .....

2. ....

Date: .....

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---

**E. Certificate for Close Corporation**

We, the undersigned, being the key members in the business trading as

.....

hereby authorise Mr/Ms .....  
.....

acting in the capacity of ....., to sign all  
to sign all documents in connection with this tender for Contract No CDC/386-T and any contract resulting  
from it on our behalf.

Name	Address	Signature	Date

*Note: This certificate is to be completed and signed by all key partners upon whom rests the direction of the  
affairs of the Partnership as a whole.*

**T2.1.2 FORM B: Schedule of Work Carried out by the Tenderer**

The Tenderer shall list below the projects of a similar nature and highest value awarded to him over the last 5 years.

Details of contactable references for each project listed must be included. At least three (3) traceable CLIENT references must be provided.

Contractors MUST attach appointment letter, completion certificates from previous employers or consultants that they have worked with. This information is essential to the award of the Contract.

<b>EMPLOYER</b> (Name, Tel No and Fax No)	<b>LEAD CONSULTANT</b> (Name, Tel No and Fax No)	<b>NATURE OF WORK</b>	<b>VALUE OF WORK</b>	<b>YEAR OF COMPLETION</b>

**SIGNATURE:** ..... **DATE:** .....  
(of person authorised to sign on behalf of the Tenderer)



**T2.1.2 FORM B (continue): Schedule of Current Contracts**

The Tenderer shall list below the current projects awarded to his company.

Traceable and contactable references for each project listed must be included.

Contractors MUST attach appointment letters. This information is essential to the award of the Contract.

<b>EMPLOYER</b> (Name, Tel No and Fax No)	<b>LEAD CONSULTANT</b> (Name, Tel No and Fax No)	<b>NATURE OF WORK</b>	<b>VALUE OF WORK</b>	<b>EXPECTED COMPLETION DATE</b>

**SIGNATURE:** ..... **DATE:** .....  
(of person authorised to sign on behalf of the Tenderer)

**T2.1.3 FORM C: Proposed Key Personnel**

The Tenderer shall list below the key personnel (including first nominee and the second-choice alternate), whom he proposes to employ on the contract should his offer be accepted, both at his headquarters and on the Site, to direct and for the execution of the work, together with their qualifications, experience, positions held and their nationalities.

CV's of the critical staff members such as Contract Manager, Site Agent, Foreman and Health & Safety Officer

LOCATION	TYPE	NAME	SIGNATURE	SUMMARY OF QUALIFICATIONS, EXPERIENCE AND PRESENT OCCUPATION
Head Office	Contract Manager			
SITE OFFICE	Site Agent			
	Foreman			
	Health & Safety Officer			

SIGNATURE: .....

DATE:.....

*(of person authorised to sign on behalf of the Tenderer)*

I/We hereby notify you that it is my/our intention to employ the following Sub-Contractors for work in this contract.

[illegible]

**DATE:**.....

*(of person authorised to sign on behalf of the Tenderer)*

**T2.1.5 FORM E: Particulars of Electrical Contractor**

I/We hereby notify you that it is my/our intention to employ the following Electrical Contractor for work in this contract.

NAME AND ADDRESS OF PROPOSED ELECTRICAL CONTRACTOR	NATURE AND EXTENT OF WORK	PREVIOUS EXPERIENCE WITH ELECTRICAL CONTRACTOR OR RECENT WORK EXECUTED BY THE ELECTRICAL CONTRACTOR	LOCAL BASED (Yes or No)	BEE Level (Indicate)

**SIGNATURE:** .....  
(of person authorised to sign on behalf of the Tenderer)

**DATE:**.....

**T2.1.6 FORM F: Financial References****Financial Statements**

I/We agree, if required, to furnish an audited copy of the latest set of financial statements together with my/our Directors' and Auditors' report for consideration by the Employer.

**Details of Company's Bank**

I/We hereby authorise the Employer/Engineer to approach all or any of the following banks for the purposes of obtaining a financial reference:

DESCRIPTION OF BANK DETAIL	BANK DETAILS APPLICABLE TO TENDERER'S HEAD OFFICE
Name of Bank	
Branch Name	
Branch Code	
Street Address	
Postal Address	
Name of Manager	
Telephone Number	(     )
Fax Number	(     )
Account Number	

**SIGNATURE:** ..... **DATE:**.....  
*(of person authorised to sign on behalf of the Tenderer)*

**T2.1.7 FORM G: Estimated Monthly Expenditure**

The Tenderer shall state below the estimated value of work to be completed every month based on his preliminary programme and his tendered unit rates.

**\* The amounts for contingencies and Contract Price Adjustment must not be included.**

MONTH	VALUE *
1	R .....
2	.....
3	R .....
4	.....
5	R .....
	.....
	R .....
	.....
	R .....
	.....
TOTAL	R .....

**SIGNATURE:** ..... **DATE:** .....  
(of person authorised to sign on behalf of the Tenderer)

## **T2.1.9 FORM H: PROTECTION OF PERSONAL INFORMATION: CONSENT**

The introduction of The Protection of Personal Information Act (POPIA) ensures the regulation of personal information through its entire life cycle of collection, transfer, storing and deletion.

As part of its business activities, the Coega Development Corporation (CDC) obtains and requires access to personal data from a wide range of internal and external parties, including without limitation bidders who respond to requests for proposals that are published by the CDC from time to time. The CDC confirms that it shall process the information disclosed by Bidders for the purpose of evaluating and subsequently awarding/appointing a successful Bidder.

The CDC hereby states that it does not and will never modify, amend, or alter any personal information submitted to it by a Bidder. Unless directed to do so by an order of court, the CDC does not disclose or permit the disclosure of any personal information to any Third Party without the prior written consent of the owner of the information.

Similarly, Bidders will from time-to-time access and will be seized with information of a personal nature pertaining to the CDC. Some of the information may, because of legislative compliances be available in the public domain, whilst some is uniquely provided to bidders in pursuit of procurement or other business-related activities. In this regard, the CDC requires that Bidders which receive or have access to its personal information, process any such information in a manner compliant with the requirements of the POPIA.

### **AGREEMENT**

1. The CDC and the Bidder (the Parties) agree and undertake that upon obtaining and having access to personal information relating to either of them, they shall always ensure that:
  - a) They process the information only for the express purpose for which it was obtained.
  - b) Information is provided only to designated and authorized personnel who require the personal information to carry out the Parties' respective obligations in terms of the Procurement processes.
  - c) They will introduce, and implement all reasonable measures ensure the protection of all personal information from unauthorized access and/or use.
  - d) They have taken appropriate measures to safeguard the security, integrity, and authenticity of all personal information in its possession or under its control.
  - e) The Parties agree that if personal information will be processed for any other purpose other than the one for which the accessing of the information was intended, explicit written consent will be obtained prior to the execution of such reason.
  - f) The Parties shall carry out regular assessments to identify all reasonably foreseeable internal and external risks to the interception of personal information in its possession or under its control and shall implement and maintain appropriate controls in mitigation of such risks.
2. The Parties agree that they will promptly return or destroy any personal data in their possession or control which belongs to the other Party once it no longer serves the purpose for which it was

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collected, subject to any legal retention requirements. The information will be destroyed in such a manner that it cannot be reconstructed to its original form, linking it to any individual or organisation.

3. Bidder's Obligations:

- a) The Bidder is required to notify the Information Officer of CDC, in writing as soon as possible after it becomes aware of or suspects any loss, unauthorised access or unlawful use of any of the CDC's personal information.
- b) The Bidder shall, at its own cost, promptly and without delay take all necessary steps to mitigate the extent of the loss or compromise of personal data.
- c) The Bidder shall be required to provide the CDC with details of the persons affected by the compromise and the nature and extent of the compromise, including details of the identity (if known) of the unauthorized person who may have accessed or acquired the personal data.
- d) The Bidder undertakes to co-operate with any investigation relating to security breach which is carried out by or on behalf of CDC.

**On behalf of the Bidder:**

.....

Signature

.....

Date

.....

Position

.....

Name of the Bidder

**On behalf of the Client:**

.....

Signature

.....

Date

.....

Position

.....

Name of Client Representative



**T2.1.8 FORM I: Details of Amendments and Qualifications****AMENDMENTS AND QUALIFICATIONS**

I / We herewith propose the amendments and discounts as set out in the tables below:

**(a) AMENDMENTS**

PAGE, CLAUSE OR ITEM NO	PROPOSED AMENDMENT

**[Notes: (1) Amendments to the Contract Data are not acceptable;**

**(2) The Tenderer must give full details of all the financial implications of the amendments and qualifications in a covering letter attached to his tender.]**

**(b) ALTERNATIVES**

PROPOSED ALTERNATIVE	DESCRIPTION OF ALTERNATIVE

**[Notes: (1) Individual alternative items that do not justify an alternative tender, and an alternative offer for time for completion should be listed here.**

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*(2) In the case of a major alternative to any part of the work, a separate Bill of Quantities, programme, etc, and a detailed statement setting out the salient features of the proposed alternatives must accompany the tender.]*

(c) DISCOUNTS

ITEM ON WHICH DISCOUNT IS OFFERED	DESCRIPTION OF DISCOUNT OFFERED

*[Note: The Tenderer must give full details of the discounts offered in a covering letter attached to his tender, failing which, the alternative offer will be prejudiced]*

SIGNATURE: ..... DATE:.....  
(of person authorised to sign on behalf of the Tenderer)

**T2.1.10 FORM J: Schedule of Construction Plant and Equipment**

The following are lists of major items of relevant equipment that I/we presently own or lease and will have available for this contract or will acquire or hire for this contract if my/our tender is accepted.

(a) Details of major equipment that is owned by and immediately available for this contract.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

(b) Details of major equipment that will be hired, or acquired for this contract if my/our tender is acceptable.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

**SIGNATURE:** .....

**DATE:** .....

*(of person authorised to sign on behalf of the Tenderer)*

**T2.1.11 FORM K: Contract Participation Goal: EME / QSE Target Form**

The CIDB Standard for Indirect Targeting is incorporated into this Contract. A Contract Participation Goal (CPG) of 33% (by value, excluding contingencies, escalation, VAT, Socio-economic deliverables, and EPWP allowances (if applicable)) is stipulated/desirable in this contract.

The Tenderer is to commit to targeted works that can be performed by EMEs/QSEs as subcontractors. The EME/ QSE targeted CPG must be calculated in relation to every entity involved in the project as defined in the CDC SMME Specification document.

The identification of SMME packages post-award will be done in conjunction with the CDC SMME Unit and the project team. The sourcing, procurement, appointment, mentoring, and graduating of SMMEs will be done in accordance with the CDC SMME Specification.

The overall percentage in the table below will be utilised for the allocation of points in the Functionality Assessment stage of Evaluation and will be monitored during construction for compliance. Penalties may be applied for achieving less than the stated/committed CPG %.

Please refer to Tables A1 and A2 in the Functionality section of Volume 1 of the Tender documents for the Evaluation Indicators for scoring purposes

**CONTRACT NUMBER** : \_\_\_\_\_

**CONTRACT DESCRIPTION** : \_\_\_\_\_

**PROJECT MANAGER** : \_\_\_\_\_

**TENDERER/S NAME** : \_\_\_\_\_

I/We tender the following targets of:

Exempted Micro Enterprises (EMEs) / SMMEs Participation		
Participation	% Goal Tendered	Estimated RAND Value (R)
SMME Packages committed	%	R
<b>Overall % Contract Participation Goal (Desirable 33%)</b>	%	R

I/We commit to achieving the above-mentioned Contract Participation Goal and to respond promptly to points of clarification regarding my/our CPGs, failing which I/we understand that my/our Tender will be deemed non-responsive on the grounds of being incomplete and not meeting the mandatory requirements as stipulated in the Tender.

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Should the tenderer be a Grade 7 or higher, they will need to complete form K in order to score points under functionality. Where the tenderer is a Grade 6, they will be awarded full points under functionality.

**Penalty on non-compliance/not achieving the committed minimum target of participation**

“The tenderers must allow for all costs application that they may feel be associated with the successful integration, development of and completion of SMME Contractors’ work to the approval of the Principal Agent on this project. This includes all the costs associated with the provision of an SMME Participation as stipulated on the Form K at a desirable minimum of 33% of construction costs excluding VAT, Contingencies and Escalation”. The employer shall be entitled without prejudice to its other remedies under the contract, to deduct from the contract price, as penalty calculated on the following formula:

Committed % of PV (*in monetary value*) - %age AV (*in monetary value*) = PAV (*in monetary value*):

where PV = Project Value,

where AV= Achieved SMME Participation Value,

where PAV = Penalty Accumulated Value

**Penalty** = *Target @ Committed % - % Achieved SMME Participation* = Balance of the % not achieved  
(which would be the penalty for non-compliance)

Duly authorised to sign on behalf of: (name of tenderer)	:	
	:	

Name of Person signing	:	
------------------------	---	--

Signature	:	
	:	

Date	:	
------	---	--

**T2.1.12 FORM L: Record of Addenda to Tender Documents**

We confirm that the following communications received from the Principal Agent before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1		
2		
3		
4		
5		

Attach additional pages if more space is required.

Signed: .....

Date: .....

Name: .....

Position: .....

**SIGNATURE:** .....

**DATE:** .....

*(of person authorised to sign on behalf of the Tenderer)*

## T2.1.13 FORM M: Proposed Construction Work Programme and Methodology

Bidders must provide an approach paper (Methodology and Technical approach) detailing the execution of the project which is consistent with the construction programme.

The Methodology is to make reference to the scope of works and SHEQ issues, and must also include contingency planning and management. The key risk factors affecting the project should be described with possible mitigation action.

Refer to Functionality Criteria and Weighting(Book 1, Annex E).

Proposed Construction Work programme and Methodology attached hereto.

(Please Tick)

YES		NO	
-----	--	----	--

**SIGNATURE:** .....

**DATE:** .....

*(of person authorised to sign on behalf of the Tenderer)*

## T2.1.14 FORM N: Joint Venture Disclosure Form

EMPLOYER : COEGA DEVELOPMENT CORPORATION  
-----  
CONTRACT DESCRIPTION : ELLIOT MAGISTRATE COURT  
-----  
CONTRACT NUMBER : CDC/386/24  
-----

- Note: 1) This form needs not be completed for Joint Ventures which have enterprise partners.
- 2) All the information requested must be filled in the spaces provided. If additional space is required, additional sheets may be attached.
- 3) A copy of the joint venture agreement must be attached to this form. In order to demonstrate the targeted enterprise partner's share in the ownership, control, management responsibilities, risks and profits of the joint venture, the proposed joint venture agreement must include specific details relating to:
- i) The contributions of capital and equipment
  - ii) Work items to be performed by the enterprise partner's own forces.
  - iii) The commitment of management, supervisory and operative personnel employed by the targeted enterprise partner to be dedicated to the performance of the Contract.
- 4) Copies of all written agreements between partners concerning the contract must be attached to this form including those which relate to ownership options and to restrictions/limits regarding ownership and control.
- 5) Each enterprise partners must complete an Enterprise Declaration Affidavits.



## JOINT VENTURE PARTICULARS

Name : \_\_\_\_\_

Postal address : \_\_\_\_\_

Physical address : \_\_\_\_\_

Telephone : \_\_\_\_\_ Fax : \_\_\_\_\_

## IDENTITY OF EACH ENTERPRISE PARTNER

Name : \_\_\_\_\_

Postal address : \_\_\_\_\_

Physical address : \_\_\_\_\_

Telephone : \_\_\_\_\_ Fax : \_\_\_\_\_

Contact Person : \_\_\_\_\_

Name : \_\_\_\_\_

Postal address : \_\_\_\_\_

Physical address : \_\_\_\_\_

Telephone : \_\_\_\_\_ Fax : \_\_\_\_\_

Contact Person : \_\_\_\_\_

Name : \_\_\_\_\_

Postal address : \_\_\_\_\_

Physical address : \_\_\_\_\_

Telephone : \_\_\_\_\_ Fax : \_\_\_\_\_

Contact Person : \_\_\_\_\_

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**DESCRIPTION OF THE ROLE OF THE PARTNERS IN THE JOINT VENTURE.**


**OWNERSHIP OF THE JOINT VENTURE**

a)	Percentage Ownership in respect of	:	Enterprises	%	Enterprises	%
b)	Profit and Loss Sharing	:	Enterprises	%	Enterprises	%
c)	Initial Capital Contribution	:	Enterprises	R	Enterprises	R
d)	Ongoing Capital Contribution	:	Enterprises	R	Enterprises	R
e)	Major Plant and Equipment Contribution	:	Enterprises		Enterprises	

**RECENT CONTRACTS EXECUTED BY PARTNERS IN THEIR OWN RIGHT OR AS  
PARTNERS IN OTHER JOINT VENTURES**

**Targeted Enterprise Partners**

1. : \_\_\_\_\_
2. : \_\_\_\_\_
3. : \_\_\_\_\_
4. : \_\_\_\_\_
5. : \_\_\_\_\_

**CONTROL AND PARTICIPATION IN THE JOINT VENTURE**

(Identify by name and firm those individuals who are, or will be, responsible for, and have authority to engage in the relevant management functions and policy and decision making, indicating any limitations in their authority e.g. co-signature requirements and Rand limits).

(Continue on next page)

**CONTROL AND STRUCTURE OF THE JOINT VENTURE**

Briefly describe the manner in which the Joint Venture is structured and controlled.


The undersigned warrants that he/she is duly authorised to sign this Joint Venture Disclosure Form and affirms that the foregoing statements are correct and include all material information necessary to identify and explain the terms and operations of the Joint Venture and the intended participation of each partner in the undertaking.

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The undersigned further covenants and agrees to provide the Employer with complete and accurate information regarding actual Joint Venture work and the payment therefore, and any proposed changes in any provisions of the Joint Venture agreement, and to permit the audit and examination of the books, records and files of the Joint Venture, or those of each partner relevant to the Joint Venture, by duly authorized representatives of the Employer.

Signature : \_\_\_\_\_

Name : \_\_\_\_\_

Duly authorised to sign on behalf of : \_\_\_\_\_

Address : \_\_\_\_\_

Telephone : \_\_\_\_\_

Fax : \_\_\_\_\_

Date : \_\_\_\_\_

## T2.1.15 FORM O: BBBEE Validation, CIDB Certificates and CSD Registration document

### 1. The Tenderer shall attach to this page a valid and Tax Compliance Status (PIN)

Original and Valid Certificate attached :

(Please Tick)

YES		NO	
-----	--	----	--

### 2. The Tenderer shall attach to this page a certified copy of the BBBEE Validation Certificate issued by an accredited Verification Agency and/or financial statement in case of an EME/SMME.

In a case of Joint Ventures (JV) each JV partner must submit their BBBEE Validation Certificate.

Certified copy attached :

(Please Tick)

YES		NO	
-----	--	----	--

### 3. The Tenderer shall attach to this page a copy of their CIDB Registration Certificate

In a case of Joint Ventures (JV) each JV partner must submit their CIDB Registration Certificate.

Certified Copy attached :

(Please Tick)

YES		NO	
-----	--	----	--

### 4. The Tenderer shall attach to this page a copy of their CSD Registration Certificate

In a case of Joint Ventures (JV) each JV partner must submit their CSD Registration Certificate.

Printout attached :

(Please Tick)

YES		NO	
-----	--	----	--

SIGNATURE: .....

DATE:.....

(of person authorised to sign on behalf of the Tenderer)

## **T 2.1.16 FORM P: Preliminary Programme**

The tenderer shall attach hereto the anticipated construction sequence of the main work activities.

The program shall clearly indicate the lead times for materials ordering and delivery and any other key dates also showing the critical path activities.

**T2.1.17 FORM Q: EME AFFIDAVIT**

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**B-BBEE EXEMPTED AFFIDAVIT FOR EXEMPTED MICRO ENTERPRISES  
(ISSUED IN TERMS OF THE AMENDED CONSTRUCTION SECTOR CODE)**

(Gazette Vol. 630 No. 41287)

Issued in terms of paragraph 3.6.2.4.1 (B)

I, the undersigned,

Full names and surname	
Identity number	

Hereby declare under oath as follows:

- The contents of this statement are to the best of my knowledge a true reflection of the facts.
- I am a Member / Director / Owner of the following enterprise and am duly authorized to act on its behalf:

<b>Enterprise Name:</b>			
<b>Trading Name (If Applicable):</b>			
<b>Registration Number:</b>			
<b>Physical Address:</b>			
<b>Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):</b>			
<b>Nature of Construction Business:</b> <i>Indicate the applicable category with a tick.</i>	<b>BEP</b> (Built Environment Professional)	<b>Contractor</b>	<b>Supplier</b>
<b>Definition of "Black People"</b>	As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians – who are citizens of the Republic of South Africa by birth or descent; or who became citizens of the Republic of South Africa by naturalization before 27 April 1994; or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date;"		
<b>Definition of "Black Designated Groups"</b>	"Black Designated Groups" means: (a) unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution; (b) Black people who are youth as defined in the National Youth Commission Act of 1996; (c) Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act; (d) Black people living in rural and under developed areas; (e) Black military veterans who qualifies to be called a military veteran in terms of the Military Veterans Act 18 of 2011;"		

- I hereby declare under Oath that as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
  - The Enterprise is \_\_\_\_\_% Black Owned
  - The Enterprise is \_\_\_\_\_% Black Female Owned
  - The Enterprise is \_\_\_\_\_% Owned by Black Designated Group (provide Black Designated Group Breakdown below as per the definition in the table above)
    - Black Youth % \_\_\_\_\_%
    - Black Disabled % \_\_\_\_\_%
    - Black Unemployed % \_\_\_\_\_%
    - Black People living in Rural areas % \_\_\_\_\_%
    - Black Military Veterans % \_\_\_\_\_%

Construction Sector Affidavit



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- Based on the Financial Statements/Management Accounts and other information available on the latest financial year-end of \_\_\_\_\_, the annual Total Revenue was less than the applicable amount confirmed **by ticking the applicable box below.**

BEP	R1.8 million	
Contractor	R3.0 million	
Supplier	R3.0 million	

*If the turnover exceeds the applicable amount in the table above then this affidavit is no longer applicable and an EME certificate must be obtained from a rating agency accredited by SANAS or when applicable a B-BBEE Verification Professional Regulator appointed by the Minister of Trade and Industry.*

- Please Confirm on the below table the B-BBEE Level Contributor, **by ticking the applicable box below.**

100% Black Owned	<b>Level One</b> (135% B-BBEE procurement recognition level)	
At least 51% Black Owned	<b>Level Two</b> (125% B-BBEE procurement recognition level)	
At least 30% Black Owned	<b>Level Four</b> (100% B-BBEE procurement recognition level)	
Less than 30% Black Owned	<b>Level Five</b> (80% B-BBEE procurement recognition level)	

- I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.
- The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Commissioner of Oaths  
Signature & stamp

Construction Sector Affidavit

## **T2.1.18 FORM R: PERFORMANCE EVALUATION**

COEGA DEVELOPMENT CORPORATION (PTY) LTD

ELLIOT MAGISTRATE COURT: PLANNED MAINTENANCE, REPAIR AND REFURBISHMENT OF THE ENTIRE FACILITY AND CAPITAL WORKS TO INCLUDE CONSTRUCTION  
OF ADDITIONAL ACCOMMODATION

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FORM R: CONTRACTOR PERFORMANCE MANAGEMENT

PROJECT NUMBER		
CONTRACT NUMBER		
PROJECT NAME		
SERVICE PROVIDER		
PROJECT MANAGER		
PROJECT VALUE		
PROJECT DURATION AND START DATE		
PROJECT STATUS (Planning/Design/Construction/Completed)		
REVIEW PERIOD	FROM:	TO:
EVALUATION DATE		

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**Measures of Performance**

Evaluation Indicators			Final Score	EXCELLENT 5	VERY GOOD 4	GOOD 3	POOR 2	UNSATISFACTORY 1
Quality Compliance				SP delivered an excellent final product which exceeded the client's expectations, met with all contractual requirements without exceeding the project schedule or the project cost. SP provided value engineering capability during the project reducing or maintaining original cost estimates whilst still maintaining high standards of product quality	SP not only complied with all the client's requirements and specification as defined in the contract documentation and drawings, he/ she also added value by either reducing cost and not delaying schedule commitment whilst achieving quality requirements	SP complied with the client's requirements and met all specifications as indicated in the contract documents	SP failed to comply with at least 50% of quality requirements as set out in the contract documents and or drawings	SP did not deliver to the client's requirements. No attempt was made to meet the quality requirements.
Cost	<u>TARGET</u>	<u>ACTUAL</u>		SP managed to expedite expenditure and is 20% ahead of projected cashflow and not compromising quality criteria.	SP managed to expedite expenditure and is 10% ahead if projected cashflow whilst still maintaining client and project requirements.	SP expenditure is as per the agreed cashflow.	SP delayed execution of the contract and has spent 15% below the target cash flow	SP delayed execution of the contract and has spent 25% below the target cash flow

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Schedule Adherence	<u>TARGET</u>	<u>ACTUAL</u>		SP delivered the project or work packages ahead of the scheduled delivery date by more than 15% of the planned project duration, delivering to the full scope of the project.	SP managed to complete the project or work packages ahead of the planned completion date by reducing project duration with 10% of planned time.	SP achieved original schedule date.	SP underestimated project activities and ultimately project duration resulting in a project delay by more than 15% of the project duration.	SP poor management of the project resulted in the project being delayed by a period longer than 20% of the project duration initially agreed at the conclusion of the contract.
SME Participation	<u>TARGET</u>	<u>ACTUAL</u>		SP made extensive use of SME in the course of the project exceeding project requirements achieving 40% SME participation.	SP made a significant contribution to the development of SMME's during the duration of the project with 38% SME participation.	SP achieved the 35% SME participation requirements as defined in the contract documentation.	SP who does not meet initial SMME contribution requirements as set out in the contract documentation achieved 30% SME participation.	Achieved 25% SME participation.
No of Jobs created	<u>TARGET</u>	<u>ACTUAL</u>		SP created more jobs than contracted by 15% or more	SP created more jobs than initially contracted by 10%.	SP created the number of jobs as defined in the contract document.	SP who does not meet the requirement for job in the contract, achieved 10% less.	Achieved 15% less.
No of Interns	<u>TARGET</u>	<u>ACTUAL</u>		SP employed an increased number of interns above what was agreed initially by 15% or greater	SP employed an increased number of interns above what was agreed initially by 10%	SP employed the agreed number of interns.	Achieved 10% less.	Achieved 15% less.
S.H.E				SP at all times during the project displayed a pro-active approach	SP not only met all the S.H.E requirements in the	SP was in full compliance with all the	SP sometimes complies with S.H.E requirements as defined in the	SP scarcely achieve set S.H.E requirements.

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		taking a leading role with regard to S.H.E requirements and maintains a one step ahead approach to ensure the project is managed in a manner that does not expose the project and client and cause delays.	contract documents but ensured that any gaps encountered in S.H.E requirements were closed to reduce any negative exposure to the client.	S.H.E requirements of the project.	contract documents and statutory and regulatory requirements. Exposing the project to undue risk and negatively affecting the project quality, cost and schedule.	
<b>FINAL SCORE**</b>			<b>SCORE &gt; 35 EXCELLENT</b>	<b>SCORE &gt; 28 VERY GOOD</b>	<b>SCORE &gt; 20 GOOD</b>	<b>SCORE &lt; 20 POOR</b>

**\*\*These areas could be weighted and a final score achieved based on CDC priorities**

**SP that obtains a score of less than 18 is regarded as a poor performer therefore not recommended for further appointment.**

<b>Project Manager's Comments:</b> <i>(PM to define challenges experienced or positive comments)</i>	<b>A good performing contractor and completed the project before original PC date. The reason for schedule was for PC including the relocation of the decanting structures.</b>
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**Signatures:**

**Project Manager:**

**Date:**

**Bidders to note that this serves as a guide, bidders may provide the evaluation sheet which is as per their previous clients.**

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**END**