



**COEGA DEVELOPMENT CORPORATION (PTY) LTD**

**CONTRACT No. CDC/25/26**

**FOR**

**DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE  
CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN  
MTHATHA**

**VOLUME 2  
(RETURNABLE DOCUMENTS)**

**CLOSING DATE: 14 April 2026**

**CLOSING TIME: 12:00**

<b><u>PREPARED FOR:</u></b> Coega Development Corporation (Pty)Ltd Private Bag X 6009 GQEBERHA (PORT ELIZABETH) 6000	<b><u>PREPARED BY:</u></b> Owen Thindwa & Associates
---	--

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

**VOLUME 2 - (RETURNABLE DOCUMENT)**

**C1.1 Form of Offer and Acceptance ..... 3**

**List of Returnable Documents ..... 3**

**Evaluation Criteria .....Error! Bookmark not defined.**

**FUNCTIONALITY ASSESSMENT .....Error! Bookmark not defined.**

**PART C1: AGREEMENT AND CONTRACT DATA ..... 8**

**SBD 1: PART A - INVITATION TO BID ..... 8**

**C1.2 Contract Data (PROVIDED BY THE CONTRACTOR) ..... 10**

**Part 2: Data provided by the Contractor ..... 10**

**C 1.3 PRO-FORMA FORMS TO BE COMPLETED BY THE TENDERER..... 13**

**C 1.3.1 PERFORMANCE BOND ..... 14**

**C 1.3.2. AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993) ..... 15**

**T2.2 : RETURNABLE DOCUMENTS ..... 23**

**T2.2.1 FORM A: Authority for Signatory..... 24**

**T2.2.2 FORM B : Schedule of Current Contracts..... 29**

**T2.2.3 FORM C: Proposed Key Personnel ..... 30**

**T2.2.4 FORM D: Schedule of Proposed Subcontractors ..... 31**

**T2.2.6 FORM E: Financial References ..... 32**

**T2.2.7 FORM F: Estimated Monthly Expenditure ..... 33**

**T2.2.8 FORM G: Details of Amendments and Qualifications ..... 35**

**T2.2 17 FORM K: CONTRACT PARTICIPATION GOAL: EME / QSE TARGET FORM37**

**T2.2.11 FORM J: Schedule of Construction Plant and Equipment..... 39**

**T2.2.12 FORM L: Record of Addenda to Tender Documents ..... 40**

**T2.2.13 FORM M: Proposed Project Work Programme and Methodology..... 41**

**T2.2.14 FORM N: Joint Venture Disclosure Form ..... 42**

**T2.2.15 FORM O: BBBEE Validation, CIDB Certificates and CSD Registration document..... 47**

**T2.2.16 FORM P: Quality Control System and Procedures ..... 48**

**SBD 4: BIDDERS DISCLOSURE ..... 49**

**SBD 6.1 ..... 52**

**T2.2.17 FORM Q: PROTECTION OF PERSONAL INFORMATION: CONSENT (POPIA)..... 56**

**C2.2 BILLS OF QUANTITIES ..... 58**

**C3. PROFESSIONAL SCOPE OF SERVICES**

## List of Returnable Documents

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

ITEMS CHECKED	CONTRACTOR
<b>1) Correct Tender Offer of Amount carried forward to Cover Page and Form of Offer and Acceptance in Section C1</b>	
<b>2) All pages requiring signatures signed by Tenderer</b>	
<b>3) Bills of Quantities</b>	
i) Section Summaries and Final Summary Completed in <b>BLACK INK</b>	
ii) Corrections crossed out and initialled	
<b>4) All returnable Documents and Schedules submitted</b>	
A) Authority for Signatory	
B) Schedule of Work carried out by Tenderer	
C) Proposed Key Personnel	
D) Financial References	
E) Estimated Monthly Expenditure	
F) Details of Amendments and Qualifications	
G) Schedule of Construction Plant and Equipment	
H) SMME Target Form	
I) Record of Addenda to Tender Document	
J) Proposed Construction work Programme and Methodology	
K) BBBEE Validation & CIDB Certificate & CSD Registration document	
L) Quality Control System and Procedures	
M) SBD 4 Bidders Disclosure	
N) SBD 6.1 Preference Points claim form	
O) Protection of Personal Information: Consent	
P) Safety, Health, and Environmental Requirements	
Q) Bill of Quantities	

## C1.1 Form of Offer and Acceptance

The **Employer**, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of: **THE CONSTRUCTION OF A NEW NTSHELE CLINIC: “DEVELOP AND CONSTRUCT” PROJECT AT KING SABATA DALINDYEBO MUNICIPALITY, MTHATHA .**

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.

By the representative of the tenderer, deemed to be duly authorized, signing this part of this Form of Offer and Acceptance the tenderer offers to perform all of the obligations and liabilities of the **NEC 3 Engineering and Construction Contract Option B - Priced Contract with Bill of Quantities** under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the Contract Data.

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

R (in words)

.....  
.....

R (in figures)

.....

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, whereupon the tenderer becomes the party named as the **Contractor** in the conditions of contract identified in the Contract Data.

**Signature(s)** \_\_\_\_\_

**Name(s)** \_\_\_\_\_

**Capacity** \_\_\_\_\_

For the Tenderer

**Name & signature of witness** \_\_\_\_\_

*(Insert name and address of organization)* \_\_\_\_\_

**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.

The terms of the contract, are contained in:

### **Part C1: Agreements & Contract Data, (which includes this Form of Offer and Acceptance)**

### **Part C2: Pricing Data**

### **Part C3: Scope of Work**

### **Part C4: Site information**

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.

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**

Name & signature of witness \_\_\_\_\_

Date \_\_\_\_\_

**C1.3 Schedule of Deviations**

1. Subject: \_\_\_\_\_

Details: \_\_\_\_\_

2. Subject \_\_\_\_\_

Details: \_\_\_\_\_

3. Subject \_\_\_\_\_

Details: \_\_\_\_\_

4. Subject \_\_\_\_\_

Details: \_\_\_\_\_

5. Subject \_\_\_\_\_

Details: \_\_\_\_\_

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 the draft contract, 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.

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

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(s)**

.....

**Name(s)**

.....

**Capacity**

.....

**For the Contractor**

**Name and signature of witness**

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

**Date**

.....

# PART C1: AGREEMENT AND CONTRACT DATA

SBD1

## PART A INVITATION TO BID

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE COEGA DEVELOPMENT CORPORATION</b>					
BID NUMBER:	CDC/25/26	CLOSING DATE:	14 APRIL 2026	CLOSING TIME:	12H00
DESCRIPTION	DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA				
<b>BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)</b>					
Mthatha Office, Ground Floor, 76 Blakeway, Mthatha, 5099					
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b>			<b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>		
CONTACT PERSON	Ms Zine Mtanda		CONTACT PERSON		
TELEPHONE NUMBER	NA		TELEPHONE NUMBER	NA	
FACSIMILE NUMBER	NA		FACSIMILE NUMBER	NA	
E-MAIL ADDRESS	dohtenders@coega.co.za		E-MAIL ADDRESS	dohtenders@coega.co.za	
<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	
<b>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.</b>					

## PART B TERMS AND CONDITIONS FOR BIDDING

<b>1. BID SUBMISSION:</b>	
1.1.	BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
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>
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.
1.4.	<b>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).</b>
<b>2. TAX COMPLIANCE REQUIREMENTS</b>	
2.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
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.
2.3	APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4	BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
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.
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."

**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: .....

## C1.2 Contract Data (PROVIDED BY THE CONTRACTOR)

The Contractor is advised to read the **NEC 3 Engineering and Construction Contract Option B Priced Contract with the Bill of Quantities (April 2013)**, in order to understand the implications of this Data which is required to be completed. Copies of these documents may be obtained from **the South African Association of Consulting Engineers (011) 463 2022**

Each item of data given below is cross-referenced to the clause in the NEC 3 Engineering and Construction Contract Option B Priced Contract with the Bill of Quantities (April 2013) to which it mainly applies.

### Part 2: Data provided by the Contractor

NEC Clause	Data
	The <b>Contractor</b> is: The address of <b>the Contractor</b> is: Address (physical): Address (postal): Contact Person: Telephone: Facsimile: e-mail: VAT No: Company Registration No:
	The Direct fee percentage is _____%
	The subcontracted fee percentage is _____%
	The Working areas is the Site only, or any office which is utilized for the production of design information. (Any materials stored off site should be highlighted to the project manager for inclusion within an assessment).
	The key people are: 1. Name: ..... 2. Job: ..... Responsibilities: ..... ..... Qualifications: ..... ..... .....

	<p>Experience: .....</p> <p>.....</p> <p>.....</p> <p>3. Name: .....</p> <p>4. Job: .....</p> <p>Responsibilities:</p> <p>.....</p> <p>.....</p> <p>Qualifications: .....</p> <p>.....</p> <p>.....</p> <p>Experience: .....</p> <p>.....</p> <p>.....</p> <p>Form T2.2.2.3 to be completed in support of the above.</p>
	<p>The following matters will be included in the Risk Register</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
<b>Optional Statements</b>	<p>The contractor is to submit a programme within the tender return. Refer to annexure M, proposed Project Works Programme</p>
<b>Data for the Shorter Schedule of Cost Components</b>	<p>The Bill of quantities is .....</p>
	<p>The tendered total of the Prices is .....</p>
	<p>The percentage for people overheads is ..... % for compensation events only.</p>
	<p>The published list of Equipment is the last edition of the list published by .....</p>

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

	<p>The Percentage for adjustment for Equipment in the published list is ..... %- (State plus or minus)</p>															
	<p>The rates for other Equipment are</p> <table border="1"> <thead> <tr> <th data-bbox="402 411 748 443">Equipment</th> <th data-bbox="776 411 1122 443">Size or capacity</th> <th data-bbox="1149 411 1360 443">Rate</th> </tr> </thead> <tbody> <tr> <td>.....</td> <td>.....</td> <td>.....</td> </tr> </tbody> </table>	Equipment	Size or capacity	Rate	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Equipment	Size or capacity	Rate														
.....	.....	.....														
.....	.....	.....														
.....	.....	.....														
.....	.....	.....														
	<p>The hourly rates for Defined cost of design outside the Working Areas are</p> <table border="1"> <thead> <tr> <th data-bbox="402 642 1101 674">Category of Employee</th> <th data-bbox="1149 642 1360 674">Rate</th> </tr> </thead> <tbody> <tr> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> </tr> <tr> <td>.....</td> <td>.....</td> </tr> </tbody> </table>	Category of Employee	Rate	.....	.....	.....	.....	.....	.....	.....	.....					
Category of Employee	Rate															
.....	.....															
.....	.....															
.....	.....															
.....	.....															
	<p>The percentage for design overheads is ..... %                  The percentage is to be applied to the values as depicted in the bills of quantities.</p>															
	<p>The categories of design employees whose traveling expenses to and from the Working Areas are included in Defined Cost are to be in line with the current rates for reimbursable expenses published by the DRPW for construction professionals.</p>															

CONTRACT No. CDC/25/26

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO  
MUNICIPALITY IN MTHATHA

### **C 1.3 PRO-FORMA FORMS TO BE COMPLETED BY THE TENDERER**

## C 1.3.1 PERFORMANCE BOND

### PERFORMANCE BOND (X13)

The Contractor gives the Employer a performance bond, provided by a bank or insurer which the Project Manager has accepted, for the amount stated in the Contract Data and in the form set out in the Works Information. A reason for not accepting the bank or insurer is that its commercial position is not strong enough to carry the bond. If the bond was not given by the Contract Date, it is given to the Employer within four weeks of the Contract Date.

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

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

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

Guarantor's seal or stamp

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

### **C 1.3.2. AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS, 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 **“T THE CONSTRUCTION OF A NEW NTSHELE CLINIC: “DEVELOP AND CONSTRUCT” PROJECT AT KING SABATA DALINDYEBO MUNICIPALITY, MTHATHA ”** 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 and Regulations, 1993 (Act 85 of 1993);

#### **1. NOW THEREFORE THIS AGREEMENT WITNESSED AS FOLLOWS:**

(a) The Mandatory shall execute the work in accordance with the Contract Documents pertaining to this Contract.

(b) This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Project Manager requiring him to commence the execution of the Works, to either:

- (i) the date of the Certificate of Practical Completion issued
- (ii) the date of termination of the Contract in terms of the NEC3 Contract

(c)The Mandatory declares himself to be conversant with the following:

(i) All the requirements, regulations and standards of the Occupational Health and Safety Act and Regulations, 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:

- Section 7 : Health and Safety Policy
- Section 8 : General duties of employers to their employees;
- Section 9 : General duties of employers and self-employed persons to persons other than employees;
- Section 37: Acts or omissions by employees or mandatories, and
- Sub-section 37(2) relating to the purpose and meaning of this Agreement.

- The procedures and safety rules of the Employer as pertaining to the Mandatory and to all his subcontractors.

(d) The Mandatory agrees to execute all the Works forming part of this Contract and to

(e) operate and utilise all machinery, plant and equipment in accordance with the Act.

(f) The Mandatory is responsible for compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.

(g) The Mandatory warrants that all his and his subcontractors' workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act, Act (130 of 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.

(h) The Mandatory undertakes to ensure that he and/or subcontractors and/or their respective employers will at all times comply with the following conditions:

- (i) The Mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act and Regulations, Act (85 of 1993). 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.
- (ii) All incidents referred to in the Occupational Health and Safety Act and Regulations, (Act (85 of 1993) shall be reported by the Mandatory to the Department of Employment and Labour as well as to the Employer.
- (iii) The Employer will further be provided with copies of all written documentation Relating to any incident
- (iv) 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 and Regulations, Act (85 of 1993), into any reportable and recorded 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:



## 2. SAFETY, HEALTH, AND ENVIRONMENTAL REQUIREMENTS

The successful bidder (Service Provider - SP) will be required to comply with the Occupational Health and Safety Act and Regulations, Act (85 of 1993); Compensation for Occupational Injuries and Disease Act, Act (130 of 1993), National Environmental Management Act, Act (107 of 1998) and Disaster Management Act, Act (57 of 2002) and, all relevant legislations throughout the duration of the contract. Upon appointment of the successful bidder, the service provider will be required to develop Occupational Health, Safety and Environmental Management Systems in compliance to the CDC Norms and Standards specified below prior commencement of the intended scope of works. The SP will be expected to develop SHE File as per project SHE Specifications within the prescribed timeframe specified in the letter of appointment and submit for approval prior commencement of construction work. Below table are the minimum requirements but not limited to –

Table 1

OHSSS Item No.	OHSSS Requirement	OHSA Requirement	Submission Date
2.3.1	Construction work notification submitted to the Department of Employment and Labour (DoEL) by the <b>Contractor – CR3</b>	A copy of completed Annexure 1 form with signed construction work acknowledgement certificate or stamp from DoEL	Before commencement of construction work.
2.3.2	Assignment of Construction Manager and Supervisor (CM & CS) for management and supervision of construction work on fulltime basis on site – CR 8(1) and CR 8(7)	Signed appointment letter, CM's profile, and certified copy of (ID, qualifications, short courses attended) registered with SACPCMP (where necessary)	
2.3.3	Assignment of Construction Health and Safety Officer or Manager (CHSO/CHSM) to assist in the control of all SHE related aspects on site – CR 8(5)	Signed appointment letter, CHSO/CHSM's profile, certified copy of (ID, qualifications, short courses attended) registered with SACPCMP (where necessary)	
2.3.4	Construction work site Organogram	Designation and names of persons appointed to relevant Sections and Regulations	
2.3.5	Assignment of Competent responsible persons as per project scope of work aligned with site organogram	<ul style="list-style-type: none"> <li>• Designation and names of persons appointed for relevant Sections and Regulations of the relevant Legislations.</li> <li>• Proof of competent</li> </ul>	

OHSS Item No.	OHSS Requirement	OHS Requirement	Submission Date
		certificates	
2.3.6	Registration with Compensation Fund or approved License Insurer in terms of Occupational Injuries and Diseases Act, Act (130 of 1993), CR 5(1)(j)	Valid proof of letter of good standing	
2.3.7	Prepared SHE Policies – Section 7	Signed SHE policies as per Tender SHE Specifications	

## NOTIFICATION FORM: SHE SPECIFICATION

OHSSS Item No.	OHSSS Requirement	OHSA Requirement	Submission Date
2.3.8	Prepared Baseline Risk Assessment (BRA) – Hazard Identification and Risk Assessment – CR 9(1)	Signed BRA specific to the project scope of work	Before commencement of construction work.
2.3.9	Prepared Method Statements read with Safe Working Procedures	Signed method statements as per Tender SHE Specifications	
2.3.10	Prepared Health, Safety and Environmental Plans (where applicable) <ul style="list-style-type: none"> <li>Health and Safety Plan (HSP)</li> <li>Environmental Management Plan</li> <li>Fall Protection Plan</li> <li>Temporary Works plan</li> <li>Demolition/Dismantling Plan</li> <li>Emergency Preparedness and Response Plan, etc.</li> </ul>	Signed HSP's specific to the Tender SHE Specifications	
2.3.11	Documents, Training, Records and Registers – CR 7(1)(b)	Prepared registers, documents, and records as per Tender SHE Specifications	
2.3.12	Medical examinations of all employees specific to the work to be performed by the OMP/OHNP in the form of Annexure 3 – pre, periodic and exits - CR 7(1)(g) <ul style="list-style-type: none"> <li>Valid medical certificates may be subjected to verification process by CDC Health Care Centre should there be discrepancies at the cost prescribed by the Clinic (CDC requirement)</li> </ul>	Proof of valid medical certificates issued by Occupational Health Practitioner with completed Annexure 3 and copies of employees' ID	
2.3.13	Mandatory agreement entered between two parties - Section 37.2	Signed copy of mandatory agreement by the Client and Principal Contractor	
2.3.14	Prepared Health and Safety Specification (HSS) by the Client - CR 5(1)(b)	Signed copies of HSS Specifications	

## NOTIFICATION FORM: SHE SPECIFICATION

OHSSS Item No.	OHSSS Requirement	OHSa Requirement	Submission Date
2.3.15	Prepared Baseline Risk Assessment (BRA) by the Client - CR 5(1)(a)	Signed copy of BRA specific to the project scope of work	Before commencement of construction work.
2.3.16	Drawing Designs	Approved drawing designs by the Authorities	
2.3.17	Appointment letters CR5(1)(k)	Signed appointment letters by Client and Principal Contractor	
2.3.18	Prepared Project Environmental Specification by the Client (PES)	Signed copies of PES Specifications	
	Assignment of any health endemic or pandemic outbreak	Signed appointment letter	
2.3.19		with responsibilities	

**Abbreviations:**

**SHE:** Safety, Health and Environment

**CR:** Construction Regulations 2014

**OHSa:** Occupational Health and Safety Act and Regulations, Act (85 of 1993)

**OHSSS:** Occupational Health and Safety Site Specification

**Acknowledgement:**

I, \_\_\_\_\_ representing \_\_\_\_\_

\_\_\_\_\_ Design and Built (DB) Contractor have satisfied with the content of the Safety, Health and Environmental Specifications and shall ensure that we comply with all relevant obligations in respect thereof. I furthermore, have fully included in my tendered rates and prices (in the Schedule of Quantities) for all resources, actions, training and any other costs required for the due fulfilment of the OHSa for the duration of the construction work and defects liability period.

\_\_\_\_\_

**Signature of DB Contractor**

**Certificate of Authority for Signatory to Agreement in terms of OHS Act (85 of 1993)**

The signatory for the company that is the Contractor in terms of the above-mentioned Contract and the Mandatory in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolutions of the Board of Directors.

An example is given below:

"By resolution of the Board of Directors passed at a meeting held on 202.....,

Mr/Ms whose signature

appears below, has been duly authorized to sign the AGREEMENT in terms of THE

OCCUPATIONAL HEALTH AND SAFETY ACT and Regulations, 1993 (ACT 85 of 1993) on behalf

of .....

.....

SIGNED ON BEHALF OF THE COMPANY :

.....

IN HIS/HER CAPACITY AS :

.....

DATE :

.....

SIGNATURE OF SIGNATORY :

.....

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

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

## **T2.2: RETURNABLE DOCUMENTS**

## T2.2.1 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.

A Company	B Partnership	C Joint Venture	D Sole Proprietor	E Close Corporation

### 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/25/26** and any contract resulting from it on behalf of the company.

### As witnesses:

1. ....

Chairman: .....

2. ....

Date: .....

**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/25/26** 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.**

**Certificate for Joint Venture (Continue)**

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

Mr/Ms \_\_\_\_\_, authorized signatory of the company

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

partner, to sign all documents in connection with this tender for Contract No **CDC/25/26** and any contract resulting from it on our behalf.

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

<b>Name of Firm</b>	<b>Address</b>	<b>Authorizing Name and Capacity</b>	<b>Authorizing Signature</b>
Lead Partner:			

**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: .....

**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/25/26** 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.*

### T2.2.2 FORM B: 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.

PROJECT	EMPLOYER (Name, Tel No Contactable reference 1)	LEAD CONSULTANT (Name, Tel No Contactable reference 2)	NATURE OF WORK OR BUILDING CLASSIFICATION	VALUE OF WORK (vat incl)	EXPECTED COMPLETION DATE / ACTUAL COMPLETION DATE	PORTFOLIO OF EVIDENCE ATTACHED (appointment letters, completion certificate, performance report, reference letters, occupation certificates)

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

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

### T2.2.3 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. CVs of the critical staff members such as contract manager, Site Agent, Foreman are required (as stipulated under functionality)

LOCATION	TITLE / DESIGNATION	% PROJECT INVOLVEMENT	NAME OF NOMINEE AND OR ALTERNATE	QUALIFICATIONS	NQF	SUMMARY OF EXPERIENCE	YEARS OF EXPERIENCE POST QUALIFICATION
	Architect						
	Quantity Surveyor						
	Electrical Engineer						
	Mechanical Engineer						
	Civil Engineer						
	Structural engineer						
<b>Site Office</b>	Contracts Manager						
	Site Agent						
	Foreman						

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

### T2.2.4 FORM D: Schedule of Proposed Subcontractors

I/We hereby notify you that it is my/our intention to employ the following Sub-Contractors for work in this contract (*this excludes the 35% work for the SMMEs*).

NAMES AND ADDRESSES OF PROPOSED SUB-CONTRACTORS	NATURE AND EXTENT OF WORK TO BE SUBCONTRACTED	PREVIOUS EXPERIENCE WITH SUB- CONTRACTOR OR RECENT WORK EXECUTED BY THE SUB- CONTRACTOR	LOCAL BASED (Yes or No)	BEE Level (Indicate)

**SIGNATURE:** ..... **DATE:**.....

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

## T2.2.6 FORM E: 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 authorize the Employer/Engineer to approach all or any of the following banks for the purpose 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 authorized to sign on behalf of the Tenderer)*

## T2.2.7 FORM F: 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	Amount *
1	R
2	R
3	R
4	R
5	R
6	R
7	R
8	R
9	R
10	R
11	R
12	R
13	R
14	R
15	R
16	R
17	R
18	R
19	R
20	R

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBE MUNICIPALITY IN MTHATHA

21	R
22	R
23	R
24	R

<b>TOTAL</b>	<b>R</b>
--------------	----------

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

## T2.2.8 FORM G: 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) 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 authorized to sign on behalf of the Tenderer)*

*Tenderer)*

## T2.2 17 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 35% (by value, excluding contingencies, escalation, VAT, Socio-economic deliverables, and EPWP allowances (if applicable)) is stipulated 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. No Functionality Points will be scored for a commitment that is less than 35%.

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 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</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.

**Penalty on non-compliance/not achieving the committed minimum target of 35% 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 minimum of 35% of construction costs excluding VAT, Contingencies and Escalation”. The employer shall be entitled without prejudice to its other remedies under the contract, deduct from the contract price, as penalty calculated on the following formula

35% 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 @ 35%-% 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	:	
------	---	--



## T2.2.12 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 authorized to sign on behalf of the Tenderer)*

## T2.2.13 FORM M: Proposed Project Work Programme and Methodology

Bidders must provide an approach paper (Methodology and Technical approach) detailing how they intend to execute the project, it has to be consistent with the proposed project programme. An accompanying schedule, programme, work breakdown Structure would assist with the methodology.

Refer to section C3.1 for the scope register as the proposed format for identification of programme activities The Methodology has to make reference to the scope of work and SHEQ issues and must also include contingency planning and management. The key risk factors likely to affect the project should be indicated with proposed possible mitigation measures.

Refer to Functionality Criteria and Weighting (**Book 1, T1.3**).

Proposed Construction Work programme and Methodology attached hereto.

*(Please Tick)*

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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

## T2.2.14 FORM N: Joint Venture Disclosure Form

EMPLOYER : COEGA DEVELOPMENT CORPORATION

CONTRACT DESCRIPTION : THE CONSTRUCTION OF A NEW NTSHELE CLINIC:  
"DEVELOP AND CONSTRUCT" PROJECT AT KING SABATA DALINDYEBO MUNICIPALITY,  
MTHATHA

CONTRACT NUMBER :

- 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 restrictions/limits regarding ownership and control.
  - 5) Each enterprise partner 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 : .....

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

**OWNERSHIP OF THE JOINT VENTURE**

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



DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

and explain the terms and operations of the Joint Venture and the intended participation of each partner in the undertaking

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 authorized to sign on behalf of :  
.....

Address :  
.....  
.....

Telephone :  
.....

Fax :  
.....

## T2.2.15 FORM O: BBEE 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	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

**2. The Tenderer shall attach to this page a certified copy of the BBEE Verification Certificate issued by an accredited Verification Agency and/or Affidavit in case of an EME/SMME.**

In a case of Joint Ventures (JV) each JV partner must submit their BBEE Verification Certificate together with a consolidated SANAS accredited BEE Verification Certificate.

Certified copy attached:

*(Please Tick)*

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

**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	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

**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	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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

**DATE:**.....

## T2.2.16 FORM P: Quality Control System and Procedures

The bidders are to provide documentation indicating the availability of a quality management system or quality management plan that will be utilized for this project.

The bidders must demonstrate that the system is functional and is being utilized by the bidder, and that on this project it will adequately fulfil the required quality assurance standards.

*(Please Tick)*

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

Refer to Functionality Criteria and Weighting (**Book 1, Annex T1.3**).

Quality control documentation attached hereto -

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

## SBD 4: BIDDERS 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>1</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

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:

.....  
 .....

<sup>1</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.

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

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>2</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 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.

<sup>2</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.

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

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 PREVENTING AND COMBATING ABUSE IN THE SUPPLY  
CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

Signature

.....

Date

.....

Position

.....

Name of bidder

**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 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
<b>PRICE</b>	80/90
<b>SPECIFIC GOALS</b>	20/10
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

- 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:

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest 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 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)	Number of points allocated (80/20 system)	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)
Level 1 Contributor	10	20		
Level 2 Contributor	9	18		
Level 3 Contributor	6	14		
Level 4 Contributor	5	12		
Level 5 Contributor	4	8		
Level 6 Contributor	3	6		
Level 7 Contributor	2	4		
Level 8 Contributor	1	2		
Non-compliant contributor	0	0		

**DECLARATION WITH REGARD TO COMPANY/FIRM**

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

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

- Y Partnership/Joint Venture / Consortium
- Y One-person business/sole propriety
- Y Close corporation
- Y Public Company
- Y Personal Liability Company
- Y (Pty) Limited
- Y Non-Profit Company
- Y 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:
- 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.

	..... <b>SIGNATURE(S) OF TENDERER(S)</b>
<b>SURNAME AND NAME:</b>	.....
<b>DATE:</b>	.....
<b>ADDRESS:</b>	.....
	.....
	.....
	.....

## **T2.2.17 FORM Q: PROTECTION OF PERSONAL INFORMATION: CONSENT (POPIA)**

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. Not 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 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.

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

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 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 organization.
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, unauthorized 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

## RT C3: SCOPE OF SERVICES AND GUIDELINE FEE SPLIT FOR PROFESSIONAL SERVICE PROVIDERS

		SCOPE OF SERVICES	SPECIFIC DELIVERABLES
<b>Stage 2</b>	Concept Design (Preliminary Designs) – <b>Review and/or refine</b>	<ul style="list-style-type: none"> <li>a) Attend all Client Progress Meetings and other ad-hoc meetings;</li> <li>b) Attend all Planning and Design meetings;</li> <li>c) Assess and advise on user requirements;</li> <li>d) Ensure compliance with latest norms and standards applicable to health infrastructure projects such as the latest Primary Health Care Policies, IUSS Guidelines, and international best practices;</li> <li>e) Develop WBS, WBS Dictionary and Baseline Plan;</li> <li>f) Development concept designs that reflect contemporary layout of this health care facility to ensure operational efficiencies, improved work flows and logistics between various sections of the facility;</li> <li>g) Prepare decommissioning and commissioning plans (sequencing) for the health care facilities;</li> <li>h) Identify SMME packages in consultation with the CDC SMME Unit;</li> <li>i) Agree with the CDC and the ECDoH on the format and procedures for cost control and reporting;</li> <li>j) Manage and monitor the preparation of project costing with specific reference to site matters that may affect the project costs;</li> <li>k) Prepare preliminary layout/sketch plans;</li> <li>l) Prepare preliminary cost estimates and project programme;</li> <li>m) Prepare and submit the Site Development Plans to local authorities where necessary; Conduct Value Engineering workshops, including all key stakeholders, and produce a Value Engineering Report.</li> <li>n) Preparation of feasibility report which presents sufficient information to determine whether the project should be implemented</li> <li>o) Preparation of design options report</li> <li>p) Preparation of a concept report which establishes the detailed brief, scope, scale form &amp; control budget and sets out the integrated concept for one or more packages.,</li> <li>q) Discharge of all environmental and local authority conditions.</li> </ul>	<ul style="list-style-type: none"> <li>a) Preliminary layout/sketch plans;</li> <li>b) Concept Designs (Including elevations, sections and 3D sketches);</li> <li>c) Stage 2 Site Development Plans;</li> <li>d) Value Engineering Report;</li> <li>e) Progress Reports; and</li> <li>f) Completion of FIPDM gate 2 – Concept report</li> <li>g) Stage 2 Programme</li> <li>h) Stage 2 Cost plan</li> <li>i) Stage 2 Risk log completed on PMIS</li> <li>j) Stage 2 Lessons log completed on PMIS</li> </ul> <p><u>Method of Assessment and Payment:</u> 100% of stage fee upon completion and approval Concept report</p>
<b>Stage 3</b>	Design Development	<ul style="list-style-type: none"> <li>a) Conduct monthly project progress design review meetings with the consultants, hospital management, CDC and ECDoH;</li> <li>b) Manage the performance of the consultant team, with specific reference to deliverables, and fee payable;</li> </ul>	<ul style="list-style-type: none"> <li>a) Design development drawings;</li> <li>b) Stage 3 Site Development Plans;</li> <li>c) Working Drawings;</li> <li>d) Outline Specifications;</li> </ul>

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBU MUNICIPALITY IN MTHATHA

		SCOPE OF SERVICES	SPECIFIC DELIVERABLES
		<ul style="list-style-type: none"> <li>c) Actively pursue the optimisation of the designs and implementation strategies;</li> <li>d) Develop in sufficient detail, the accepted concept to finalise the design</li> <li>e) Establish the detailed form, character, function and costings</li> <li>f) Define all components in terms of overall size, typical detail, performance and outline specification</li> <li>g) Describe how elements are to function and safely constructed, maintained and commissioned</li> <li>h) Confirmation that the package can be completed within the control budget</li> <li>i) Establish and co-ordinate the formal and informal communication structure, processes and procedures for the design development of the project;</li> <li>j) Prepare, co-ordinate and agree on a detailed Design and Documentation for the project;</li> <li>k) Produce design development drawings, technical details and outline specifications;</li> <li>l) Prepare detail specifications for new medical and non-medical equipment for procurement purposes;</li> <li>m) Prepare comprehensive room data sheets as informed by the Clinical and Technical Brief;</li> <li>n) Prepare equipment list and Bill of Quantities for all medical and non-medical equipment;</li> <li>o) Manage, co-ordinate and integrate the design in a sequence to suit the project design and documentation with consultants;</li> <li>p) Prepare detailed cost estimates for all work packages;</li> <li>q) Prepare detailed Design Report;</li> <li>r) Facilitate and manage the end-user participation, by establishing the working group committee to participate in meetings during the design of the project;</li> <li>s) Manage and monitor the timeous submission by the design team of all plans and documentation to obtain the necessary statutory approvals;</li> <li>t) Conduct Value Engineering exercise with CDC on detail designs for approval;</li> <li>u) Identify and set aside SMME work packages in the BOQ;</li> <li>v) Facilitate any input from the design consultants required by Health and Safety consultant;</li> <li>w) Establish responsibilities and monitor the information flow (to and from) to all stakeholders</li> <li>x) Manage the preparation of cost estimates by the Quantity Surveyor, budgets and cost reports for all packages and phases</li> <li>y) Cost control to achieve cost effective designs;</li> <li>z) Facilitate and monitor the timeous technical co-ordination of the design by the design team with quality assurance system</li> <li>aa) Manage and monitor the planning and documentation of commissioning of the facility, including change management planning; and facilitate approvals</li> </ul>	<ul style="list-style-type: none"> <li>e) Stage 3 Cost Estimates;</li> <li>f) Stage 3 Baseline Programme;</li> <li>g) Room Data Sheets and Equipment Lists</li> <li>h) Stage 3 Risk log completed on PMIS</li> <li>i) Stage 3 Lessons log completed on PMIS</li> <li>j) Completion of FIPDM gate 3 – Design Development report</li> </ul> <p><u>Method of Assessment and Payment:</u></p> <ul style="list-style-type: none"> <li>a) Proportional to the volume and approval of design documentation to be completed during the stage 100% of stage fee upon client approval of FIPDM gate 3 – design development report</li> </ul>
<b>Stage 4</b>	Detailed Design	<ul style="list-style-type: none"> <li>a) Provide advice on all appropriate insurances;</li> <li>b) Compilation and approval of Tender Documentation including Working Drawings and</li> </ul>	<ul style="list-style-type: none"> <li>a) Working Drawings;</li> <li>b) Elemental BOQ including</li> </ul>

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBU MUNICIPALITY IN MTHATHA

		SCOPE OF SERVICES	SPECIFIC DELIVERABLES
		<p>Elemental Bill of Quantities;</p> <p>c) Documentation for pricing purposes to be produced for each work package</p> <p>d) Assess samples and products for compliance and design intent;</p> <p>e) Production of copies of the required number of Tender Documents for distribution to prospective tenderers;</p> <p>f) Attend Briefing Meeting;</p> <p>g) Assist with responses to technical and design related questions during tender stage;</p> <p>h) Attend tender closure meeting; and</p> <p>i) Assist with tender evaluation, arithmetical error checking of submitted bids and compilation of detailed Tender Evaluation Report to Project Manager;</p> <p>j) Production information, which provides the detailing, performance definition, specification, sizing and positioning of all systems, and components whereby the contractor is able to build directly from the information provided.</p> <p>k) Completed manufacture, fabrication and construction information produced by or on behalf of the constructor, which enables the construction to take place.</p>	<p>SMME component</p> <p>c) Tender Documentation;</p> <p>d) Tender Evaluation Report; and</p> <p>e) Progress Reports.</p> <p>f) Stage 4 Programme</p> <p>g) Stage 4 Cost plan</p> <p>h) Stage 4 Risk log completed on PMIS</p> <p>k) Stage 4 Lessons log</p> <p>j) Completion of FIPDM – Design Documentation</p> <p><u>Method of Assessment and Payment</u></p> <p>l) 100% of the overall stage fee upon the completion and client approval of FIPDM stage 4 – Design Documentation.</p>
<b>Stage 5</b>	Works (Include both construction and commissioning)	<p>a) Assist with appointment of contractor including signing of the construction contract;</p> <p>i. Ensure that all contractual obligations from the contractor are met e.g. guarantees, insurances, programmes, etc. are in place;</p> <p>ii. Manage the performance of the contractor with specific reference to deliverables, cost structures, interest and penalties;</p> <p>iii. Actively pursue the optimisation of the designs and implementation strategies;</p> <p>iv. Facilitate the hand-over of site to the contractor;</p> <p>v. Establish and co-ordinate the formal and informal communication structure and procedures during the construction period;</p> <p>vi. Monitor, review and approve the preparation of the contract programme;</p> <p>vii. Monitor the compliance by the contractors of the requirements of the Health and Safety Consultant;</p> <p>viii. Monitor the auditing of the contractors Health and Safety Plan and on site auditing by the Health and Safety Agent;</p> <p>ix. Monitor the compliance by the contractors of the requirements of the Socio - Economic Deliverables;</p> <p>x. Report on EPWP, SMME and Job creation achievements to ECDoH;</p> <p>xi. Agree and manage the document schedule to ensure timeous delivery of required information to the contractor;</p> <p>xii. Establish procedure for monitoring, controlling and agreeing all scope and cost variations. Formal approvals to be obtained from CDC and NDoH prior to instruction to proceed with any scope changes;</p> <p>xiii. Agree and monitor all quality assurance procedures and implementation thereof by</p>	<ul style="list-style-type: none"> <li>• Work Plans for construction;</li> <li>• Site Handover Certificate and Contracts;</li> <li>• Payment Certificates;</li> <li>• Monthly Progress Reports;</li> <li>• Monthly Cost Report; and</li> <li>• Mini BOQ and Drawings for SMME packages.</li> <li>• Practical Completion Certificate</li> <li>• Stage 5 Programme</li> <li>• Stage 5 Cost plan</li> <li>• Stage 5 Risk log completed on PMIS</li> <li>i) Stage 5 Lessons log</li> </ul> <p><u>Method of Assessment and Payment</u></p> <ul style="list-style-type: none"> <li>• At the stage fee percentage, less previously earned, applied to the approved contractor's interim payment certificate to the total contract value (Excl VAT, advanced payment, any interest charges, and Incl penalties) as evidenced on the Payment Certificate</li> </ul>

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

		SCOPE OF SERVICES	SPECIFIC DELIVERABLES
		<p>the consultant and the contractor;</p> <p>xiv. Monitor, review, approve and certify monthly progress payments of all Service Providers;</p> <p>xv. Receive, review and adjudicate any contractual claims;</p> <p>xvi. Monitor the preparation of monthly cost reports by the Quantity Surveyor;</p> <p>b) Submit all necessary cash flows to the CDC and NDoH;</p> <p>c) Prepare monthly project reports (reporting on project progress and financial management) including any other submission to the CDC and NDoH;</p> <p>d) Co-ordinate and monitor the defects/snag lists to enable the issue of the Certificate of Practical Completion;</p> <p>e) Monitor the execution of the defects items to achieve works completion and the issue of a Works Completion Certificate;</p> <p>f) Monitor the execution of the defects items during the defect period to achieve final completion and the issue of a Final Completion Certificate;</p> <p>g) Monitor and report on critical path of contractors programme and recommend changes where necessary;</p> <p>h) Monitor and report on labor resources of contractor to achieve targets; and</p> <p>i) Full time presence on site of Clerk of Works to monitor workmanship and quality of construction works performed by the contractor.</p>	<ul style="list-style-type: none"> <li>• 100% of remainder of stage fee payable upon the issuance of the practical completion certificate.</li> <li>• 100% of the overall stage fee upon the completion and client approval of FIPDM stage 5 – Practical completion report</li> </ul>
<b>Stage 5</b>	Hand Over	<p>a) Finalize and assemble record information which accurately reflects the as built information.</p> <p>b) Handover works to the end user</p> <p>c) Commissioning and performance testing of all equipment &amp; products</p> <p>d) Arrange operations &amp; maintenance manuals and warranties from suppliers</p> <p>e) Train end users on all operational equipment and</p> <p>b) Issue health and safety file</p>	<ul style="list-style-type: none"> <li>• Works completion certificate</li> <li>• Occupational Certificate</li> <li>• Health and Safety File</li> <li>• As built information</li> <li>• Stage 6 Risk log completed on PMIS</li> <li>• Stage 6 Lessons log on PMIS</li> <li>• 100% of the overall stage fee upon the completion and client approval of FIPDM stage 6 – Handover / record information report</li> </ul>
<b>Stage 5</b>	Close Out	<p>a) Record of information archived</p> <p>b) Project closed on the web based PMIS system</p> <p>c) Prepare and present final accounts</p> <p>f) Prepare and present project close out report</p>	<ul style="list-style-type: none"> <li>• Close out report</li> <li>• Final account</li> <li>• Final certificate</li> </ul> <p><u>Method of Assessment and Payment</u> 100% at the completion on completion and</p> <ul style="list-style-type: none"> <li>• client approval of FIPDM stage 7 – Close out report</li> </ul>

DEVELOP AND CONSTRUCT PROJECT FOR THE NEW NTSHELE CLINIC AT KING SABATA DALINDYEBO MUNICIPALITY IN MTHATHA

Stages	FIDPM Description	Architect	QS	Civil Engineer	Structural Engineer	Electrical Engineer	Mechanical Engineer	Professional OHS
1	Initiation	0%	0%	0%	0%	0%	0%	0%
2	Concept	10%	5%	10%	10%	10%	10%	0%
3	Design Development	15%	10%	15%	15%	15%	15%	10%
4	Detailed Design	25%	30%	25%	25%	25%	25%	20%
5	Works	35%	45%	35%	35%	35%	35%	50%
6	Handover	5%	0%	5%	5%	5%	5%	0%
7	Close out	10%	10%	10%	10%	10%	10%	20%
	TOTALS	100%	100%	100%	100%	100%	100%	100%

## **C2.2 BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 1</u></b></p> <p><b><u>PRELIMINARIES NOTES</u></b></p> <p>i) The NEC3 Engineering and Construction Contract - Option B: Priced contract with bill of quantities (April 2013) in conjunction with the Contract Data is taken to be incorporated herein.</p> <p>ii) The Tenderer is deemed to have taken cognizance of the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only.</p> <p>iii) Where standard clauses or options are not applicable to this contract such modifications, corrections or supplements as are necessary, are given under each relevant clause.</p> <p>iv) Where any items are not used for this specific contract such items are nevertheless listed but marked <b>not applicable</b> in the amount column.</p> <p>v) The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.</p> <p>vi) Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in (v) but taking into account the revised period for completing the works.</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 1                      Bill No. 1                      Preliminaries &amp; General  <b>COEGA</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>vii) The amount or the items of the Preliminaries are adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments are based on adjustments in the following categories as recorded in the Bill of Quantities:</p> <p>a) an amount which is not varied, namely Fixed.</p> <p>b) an amount which is varied in proportion to the contract value, namely Value Related; and</p> <p>c) an amount which is varied in proportion to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment in terms of the contract, namely Time Related.</p> <p>viii) Where no provision is made in the Bill of Quantities to indicate which of the three categories in (vii) apply or where no selection is made, the adjustments shall be based on the following breakdown:</p> <p>a) 10 percent is Fixed;</p> <p>b) 15 percent is Value Related</p> <p>c) 75 percent is Time Related</p> <p>ix) The adjustment of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.</p> <p>x) Items not priced in these preliminaries are deemed to be included elsewhere in this bill of quantities</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          Preliminaries &amp; General  <b>COEGA</b></p>		R	

Brought Forward			R
<b><u>SECTION A: CORE CLAUSES</u></b>			
Refer to the tender document for any amendments and including this section. Additional clauses have also been added on this section.			
1	FIXED RELATED PRELIMINARIES - Applicable to all clauses of the NEC3 used on this contract including amendments	Item	1.00
2	VALUE RELATED PRELIMINARIES - Applicable to all clauses of the NEC3 used on this contract including amendments	Item	1.00
3	TIME RELATED PRELIMINARIES - Applicable to all clauses of the NEC3 used on this contract including amendments	Item	1.00
<b><u>GENERAL (A1)</u></b>			
4	Clause 1.0 F:..... V:..... T:.....	Item	1.00
<b><u>THE CONTRACTOR'S MAIN RESPONSIBILITIES (A2)</u></b>			
5	Clause 2  The contractor must provide and keep a copy of the NEC3 Engineering and Construction Contract - Option B: Priced contract with bill of quantities applicable to this contract and a copy of the Procurement Document on the site, to which the Project Manager and Supervisor have access at all times.  F:..... V:..... T:.....	Item	1.00
<b>Carried Forward</b>			R
Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>			

		Brought Forward		R
	<b><u>TIME (A3)</u></b>			
6	Clause 3.0			
	F:..... V:..... T:.....	Item	1.00	
	<b><u>TESTING AND DEFECTS (A4)</u></b>			
7	Clause 4.0			
	F:..... V:..... T:.....	Item	1.00	
	<b><u>PAYMENT (A5)</u></b>			
8	Clause 5.0			
	Clause 5.0 is amended by the addition of the following clause:  Materials and goods stored off site are not included in the amount authorised for payment.			
	F:..... V:..... T:.....	Item	1.00	
	<b><u>COMPENSATION EVENTS (A6)</u></b>			
9	Clause 6.0			
	F:..... V:..... T:.....	Item	1.00	
	<b><u>TITLE (A7)</u></b>			
10	Clause 7.0			
	F:..... V:..... T:.....	Item	1.00	
		<b>Carried Forward</b>		R
	Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>			

		Brought Forward		R
<b><u>RISKS AND INSURANCE (A8)</u></b>				
11	Clause 8.0			
	F:..... V:..... T:.....	Item	1.00	
<b><u>TERMINATION (A9)</u></b>				
12	Clause 9.0			
	F:..... V:..... T:.....	Item	1.00	
<b><u>SECTION B: MAIN OPTION CLAUSES</u></b>				
<b><u>PRICED CONTRACT WITH BILL OF QUANTITIES (B1)</u></b>				
13	Clause 10.0			
	The quantities in provisional bills of quantities are an indication of the works to be executed and are subject to remeasurement.			
	F:..... V:..... T:.....	Item	1.00	
<b><u>SECTION C: DISPUTE RESOLUTION</u></b>				
<b><u>OPTION W1 (C1)</u></b>				
14	Clause 11.0			
	F:..... V:..... T:.....	Item	1.00	
<b><u>SECTION D: SECONDARY OPTION CLAUSES</u></b>				
		Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>				

		Brought Forward		R	
<b><u>X1 PRICE ADJUSTMENT FOR INFLATION (D1)</u></b>					
15	Clause 12.0				
	F:..... V:.....				
	T:.....	Item	1.00		
<b><u>X2 CHANGES IN THE LAW (D2)</u></b>					
16	Clause 13.0				
	F:..... V:.....				
	T:.....	Item	1.00		
<b><u>X3 MULTIPLE CURRENCIES (D3)</u></b>					
17	Clause 14.0				
	F:..... V:.....				
	T:.....	Item	1.00		<b>Not Applicable</b>
<b><u>X4 PARENT COMPANY GUARANTEE (D4)</u></b>					
18	Clause 15.0				
	F:..... V:.....				
	T:.....	Item	1.00		<b>Not Applicable</b>
		<b>Carried Forward</b>		R	
Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>					

	<b>Brought Forward</b>			R
	<b><u>X5 SECTIONAL COMPLETION (D5)</u></b>			
19	<p>Clause 16.0</p> <p>"The works shall be divided as follows:</p> <p>Section 1 - Main Clinic Building including related site and external works (Date: 10 Months after site handover or earlier)</p> <p>Section 2 – The rest of the works (Date: 24 Months after site handover)</p> <p>The Contractor shall execute and complete the Works in two distinct Sections, as specified in the Contract Data. Section 1 shall be fully completed and certified as complete by the Project Manager prior to the commencement of any physical Works on Section 2.</p> <p>This sequence of work is critical to the Employer’s operational and programme requirements.</p> <p>The Contractor’s programme shall clearly demonstrate this sequence of execution and shall comply fully regarding compliance, submission, acceptance and updates.</p> <p>Any proposed reallocation or movement of resources between Sections shall require the prior written approval of the Project Manager.</p> <p>Program: Contractor’s programme must show the order of work, including sectional completions stated. "</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
	<b><u>X6 EARLY OCCUPATION</u></b>			
20	<p>EARLY OCCUPATION BY THE END USER OF THE MAIN CLINIC BUILDING</p> <p>The contractor is advised that the end user shall be provided with early occupation of the main clinic building (sectional completion) for the purposes of fully functioning as a clinic including all related compliance certificates.</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>The contractor shall complete the respective area so that the following is achieved:</p> <p>i) Premises to be ready for operations 60 days prior to date of practical completion of the sectional main building (all outstanding work and defects on the applicable sectional practical completion list, is to be complete in every respect 10 weeks prior to date of practical completion of the works as a whole or as instructed by the project manager)</p> <p>The phrase “ready for end user (Department of Health) to commence operations” shall mean that the state of the works shall be as follows :</p> <ul style="list-style-type: none"> <li>- Painting : generally complete</li> <li>- Floor vinyl : where necessary complete and dry</li> <li>- Ceilings including services : complete</li> <li>- Electrical installation : complete, but could be operating on temporary supply</li> <li>- Air-conditioning : ducts blown out and installation complete except commissioning ( temporary ventilation required for tenants’ workmen)</li> <li>- General security : premises must be secure, external doors fitted, back and side windows glazed, etc.</li> <li>- Toilets : facilities required for tenants’ workmen</li> <li>- Fire fighting equipment : complete and commissioned</li> <li>- External access : adequate access must be provided and any driveways to the clinic shall be completed.</li> <li>- Roofs : complete and waterproofed</li> <li>- General : all in internal finishes complete. No scaffolding will be allowed on the premises.</li> </ul> <p>In the event that the contractor fails to achieve the early occupation dates referred to in the contract, the Contractor shall be liable to pay to the Employer, penalties as stated in the contract, for the period during which any tenancy remains, in the opinion of the project manager, incomplete.</p> <p>Sectional completion of general end user areas will only be achieved when each of such areas have, in the opinion of the project manager, reached a sufficient state of completion where the end user has continuous, secure and unimpeded use of the premises.</p> <p><b>ACCESS TO END USER AREAS</b></p> <p>The contractor is advised that any access required to</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          Preliminaries &amp; General  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>achieve works and final completion in the end user area spaces after handover to the end user is to be arranged with the end user. Any additional costs incurred in connection with this requirement will not be entertained.</p> <p>F:..... V:..... T:.....</p>	<p>Item</p> <p style="text-align: right;">1.00</p>	<p>R</p>		
<p><b><u>SECTION E: ADDITIONAL PRELIMINARY CLAUSES</u></b></p>				
<p>The following clauses are additional to, or augment the clauses contained in sections "A, B, C, D and the tender document" of these preliminaries.</p>				
<p><b><u>E1: UNAUTHORISED PERSONS ON SITE</u></b></p>				
<p>21</p>	<p>The Contractor shall at all times strictly exclude all unauthorised persons form the works.</p> <p>No workmen or labourers are to be allowed under any circumstances to sleep or deposit any kit on the premises. The <b>Contractor</b> must provide any necessary independent shelter or shed required for any labour of watchman left on the site.</p> <p>Furthermore the <b>Contractor</b> shall take all measures necessary to insure that no workmen allowed into the building at any time after <b>practical completion</b> without the specific permission of <b>Project Manager</b>.</p> <p>Suitable identification cards must be worn by all construction personnel including sub-contractors, at all times. These identification cards will be issued by the main contractor.</p> <p>F:..... V:..... T:.....</p>	<p>Item</p> <p style="text-align: right;">1.00</p>		
<p style="text-align: center;"><b>Carried Forward</b></p>				
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p> <p style="text-align: right;">R</p>				

<b>Brought Forward</b>			R
22	<p><b><u>E2: PRICING OF BILLS</u></b></p> <p>Tenderers are 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 packing, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the <b>contract</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 tenderer's omission to price any item will be entertained.</p> <p>Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.</p> <p>The <b>Contractor</b> shall execute work during "overtime" hours as dictated by the specific requirements of this project and necessary in order to complete the project within the agreed <b>construction period</b> and shall provide such resources and work such overtime hours as necessary. Note that no work such as demolitions, breaking down of walls or any other work which will generate a noise level that would inconvenience any neighbouring occupants during normal working hours as referred to below will be allowed without notifying and agreeing the same with the principal agent. The contractor should allow for this work to take place between 7:00am and 17:00pm. Costs for the execution of this work under these conditions shall be included within the <b>Contract sum</b></p> <p>F:..... V:..... T:.....</p>	Item	1.00
<b>Carried Forward</b>			R
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>			

Brought Forward				R
	<p><b><u>E3: NATURE OF PROJECT IN RELATION TO PRICING</u></b></p>			
23	<p>Tenderers are advised that the nature of this <b>contract</b> is such that the detail design will evolve in parallel with construction.</p> <p>The tenderer acknowledges that he is aware that planning and production of drawings are in the embryonic stage and that the appointments of <b>Selected/ Nominated sub-contractors</b> are yet to take place and that notwithstanding this, the rates and prices contained herein as well as the amounts allowed shall remain of full force and effect.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
	<p><b><u>E4: COST OF CLAIMS</u></b></p>			
24	<p>All costs incurred by the <b>Contractor</b> in the preparation of claims to the satisfaction of the <b>Project Manager</b> and/or <b>Quantity Surveyor</b> shall be borne by the <b>Contractor</b></p> <p>F:..... V:..... T:.....</p>	Item	1.00	
	<p><b><u>E5: DIRECT CONTRACTS</u></b></p>			
25	<p>CLAUSE 5.1 : DIRECT AND SEPARATE CONTRACTS</p> <p>The <b>Employer</b> shall have the right to employ other <b>Contractors</b> (hereinafter referred to as "Direct Contractors") to execute any special or other <b>works</b> whether contained in this Contract or not, concurrently with the work being executed under this Contract.</p> <p>In addition, the <b>Employer</b> shall have the right to send on to the <b>Works</b> any electronic fittings, information technology work, furniture and furnishings and have same installed by his own employees or by Direct <b>Contractors</b>. The <b>Contractor</b> shall not be entitled to any percentage, profit or discount on the value of any work executed by "Direct Contractors" but shall nevertheless allow these Direct Contractors and the <b>Employer's</b> employees to have access to the <b>Works</b>,</p>			
	<p><b>Carried Forward</b></p>			R
	<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>allocate reasonable space in the building for the storage of their materials, tools and equipment, and co-ordinate the work of and “attend upon” such Direct <b>Contractors</b> as necessary all to the satisfaction of the <b>Project Manager</b>.</p> <p>The <b>Contractor</b> shall allow the Direct <b>Contractors</b>, etc., to use, free of charge, the latrine accommodation and water and power supply of the <b>site</b>, and shall not in any way hinder or prevent the execution of their work</p> <p>The <b>Contractor</b> is to allow for any costs in connection with providing access for and coordinating and “attending upon” such Direct Contractors, etc., and for the use of the facilities stated above and no additional claim will be entertained due to the presence on the <b>Works</b> of such Direct <b>Contractors</b></p> <p>Should the <b>Contractor</b> be required to make good after such Direct <b>Contractors</b> or to prevent jobbing, etc., the <b>Contractor</b> will be compensated for any costs incurred by him.</p> <p>Without in any way detracting from the generality of the above, Contractors are advised that the following <b>works</b> may be carried out by the <b>Employer</b> and/or their direct <b>Contractors</b> and the value of such work is included in this Contract:</p> <ul style="list-style-type: none"> <li>• IT</li> <li>• Equipment and furniture,</li> <li>• Audio Visual equipment</li> </ul> <p>The contractor should allow for early occupation for the installation of these facilities, specifically computer room(s), to enable the direct contractors to finish their first and second fix items on or before practical / sectional completion. The final fix equipment will only be installed after practical completion for insurance purposes.</p> <p>A detailed schedule indicating the anticipated early occupation dates for the various items shall be agreed between the contractor and the principal agent</p> <p>F:..... V:..... T:.....</p>	<p>Item</p> <p>1.00</p>	<p>R</p>	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>		<p>R</p>	

		Brought Forward		R
		<b><u>E6: MODE OF PROCEDURE</u></b>		
26	<p>Notwithstanding anything to the contrary contained herein the <b>project manager</b> at all times reserves the right to direct the order in which the various parts of the <b>works</b> are to be executed. The <b>contractor</b> shall give priority to any individual section or portion of the <b>works</b> that, in the opinion of the <b>project manager</b>, requires to be expedited.</p> <p>Should the <b>contractor and/or project manager</b> be of the opinion that such instruction warrants a revision to the Contract Programme, then the provisions of Clause B9.12.6 hereof shall apply.</p> <p>Should it appear, in the <b>project manager's</b> opinion, that work in any area is not being executed in accordance with the requirements of the Programme, the <b>contractor</b> shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the <b>project manager</b>.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
		<b><u>E7: CONFIDENTIALITY</u></b>		
27	<p>The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings wherever necessary. 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 <b>employer</b></p> <p>F:..... V:..... T:.....</p>	Item	1.00	
		<b>Carried Forward</b>		R
	<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>			

		Brought Forward		R
		<b><u>E8: SITE INSTRUCTIONS</u></b>		
28	<p>Contract instructions issued on site are to be recorded by the Project Manager in a Site Instruction Book which will be issued by the Project Manager and which shall be maintained on site.</p> <p><b>Only site instructions issued in such book shall be recognized</b></p> <p>F:..... V:..... T:.....</p>	Item	1.00	
		<b><u>E9: METHOD OF STATEMENT</u></b>		
29	<p>The Tenderer shall produce, when required to do so by the <b>project manager</b>, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the <b>works</b>. Any approval given or observation made by the <b>project manager</b> shall not relieve the <b>contractor</b> of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the <b>works</b>.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
		<b>Carried Forward</b>		R
	<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>			

30	<b>Brought Forward</b>	R	
	<b><u>E10: OVERLOADING</u></b>		
	<p>The <b>contractor</b> shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the <b>works</b> or temporary works, e.g. scaffolding, etc. The <b>contractor</b> shall submit details of his proposed loading, storage, plant erection, etc., to the <b>project manager</b> for their approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the <b>project manager's</b> requirements in connection with the provision of temporary support work, etc. Any damage caused to the <b>works</b> by overloading shall be made good by the <b>contractor</b> at his sole expense.</p> <p>Notwithstanding any approval, comments or directions given by the Engineer the <b>Contractor</b> shall be entirely responsible for damage caused to the <b>Works</b> by overloading which damage shall be made good by the <b>Contractor</b> at his sole expense</p> <p>F:..... V:..... T:.....</p>		
	Item	1.00	
	<b><u>E11: HANDOVER, GUARANTEES AND MAINTENANCE INSTRUCTION MANUALS</u></b>		
	<b>Carried Forward</b>	R	
	<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>		

<p>31</p>	<p style="text-align: center;"><b>Brought Forward</b></p> <p>CLAUSE 11.1 : AS BUILT DRAWINGS</p> <p>Copies of the structural engineer's drawings showing the positions of construction breaks and the extent of individual concrete pours are to be maintained by the contractor for record purposes and are to be submitted to the structural engineers for their records, at the end of the project.</p> <p>The contractor shall be required to ensure that, at the end of the project, copies of the plumbing, drainage and fire services reticulation layouts, showing the position of main pipe runs, the positions of stopcocks and all other salient information, are submitted to the principal agent. All such as built drawings are required to be lodged prior to the issue of the certificate of works completion</p> <p>CLAUSE 11.2 : GUARANTEES AND MAINTENANCE INSTRUCTIONS/MANUALS</p> <p>The <b>Contractor</b> shall obtain and hand over to the <b>Project Manager</b> on practical completion any operating and maintenance instruction manuals data or instructions required by the <b>Project Manager</b> or provided by manufacturers, suppliers or <b>Subcontractors</b></p> <p>The <b>Contractor</b> shall ensure that all warranties and guarantees received are fully ceded to the employer on works completion, failing which, the issue of the works completion certificate and the release of construction guarantee, will be withheld until this is satisfactorily completed.</p> <p>The guarantees shall state that workmanship, materials and installations are guaranteed for a specified period reckoned from the date of practical completion of the works and that any defects in the workmanship, materials and installation that may arise during that period, shall be made good at the expense of the contractor / subcontractors doing the work, upon written notice from the principal agent or the employer to do so.</p> <p>CLAUSE 11.3 : SECURITY AT COMPLETION</p> <p>At completion, the <b>Contractor</b> shall leave the works secure with all accesses locked. The <b>Contractor</b> shall account for and hand over to the principal agent all keys, properly labelled with an itemised schedule to be</p>		R	
	<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1                  Bill No. 1                  Preliminaries &amp; General  <b>COEGA</b></p>		R	

32	<b>Brought Forward</b>		R	
	<p>signed by the principal agent as receipt.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item                      1.00</p> <p><b><u>E12: GENERAL IN RESPECT OF SPECIALIST INSTALLATIONS</u></b></p> <p><b>Note :</b> The contractor is to ensure that the following requirements, as stated in the subcontractor documentation in respect of specialist equipment and services installations by specialist subcontractors under his control, are adhered to:</p> <p>CLAUSE 12.1 : TESTS AND INSPECTIONS PRIOR TO COMPLETION</p> <p>All specialist plant and equipment, subject to the principal agent's sole discretion, is subject to acceptance tests, which shall be arranged in the works of the subcontractor / supplier within 10 days of notification that such plant or equipment is available for testing. The subcontractor shall inform the principal agent in writing, indicating the exact dates for these acceptance tests during the course of the last month of manufacture of such plant or equipment. In the event that the project manager or his representatives cannot witness such tests, the employer may:</p> <p>i) appoint a specialist inspection organisation to witness such tests at his Expense on behalf of the principal agent or his representatives.</p> <p>OR</p> <p>ii) accept the subcontractors certificate testifying as to the quality and Performance of the specialist plant / equipment so supplied.</p> <p>Should no inspection have been made by the date indicated by the subcontractor as set out above, the equipment will be deemed as accepted and packed accordingly for delivery.</p> <p>The final acceptance will take place on site in the presence of the subcontractor responsible for the commissioning of the equipment. The project manager representative shall also be present.</p> <p>The contractor shall demonstrate to the project manager the full scope of operation of the installation and shall</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p>ensure that he is satisfied that the principal agent is fully aware of all the operational aspects of the installation prior to handover at practical completion stage.</p> <p>The project manager shall be afforded access at all reasonable times to such part of the works on site or at the contractor's premises or the premises of the manufacturer of component parts, as may be necessary for the purpose of inspecting, examining and testing the materials, workmanship and performance of any plant or equipment for the works.</p> <p>The contractor shall be responsible for the tests required by any local statute, building regulation, etc.</p> <p>Any breakdown or mechanical failure and any damage or consequential losses which may arise from such breakdown, mechanical or structural failure, will be the responsibility of the contractor.</p> <p><b>CLAUSE 12.2 : PERFORMANCE OF INSTALLATION</b></p> <p>The efficiency of the design is the responsibility of the contractor who shall ensure that the quality of workmanship and the installation of equipment meets the requirements of the specification and is done in such a manner that the equipment performance meets with the figures published by the manufacturers and/or suppliers.</p> <p>The contractor &amp; subcontractors, by entering into this contract, shall be deemed to have offered his services, workmanship, materials and equipment to meet the requirements of the specification and shall further be deemed to have ensured that the suppliers and manufacturers of the equipment installed by him under this contract, have manufactured and supplied such equipment to perform within the recommended limits of the manufacturer's design and performance figures, as well as to comply with the specification supplied.</p> <p><b>CLAUSE 12.3 : GUARANTEE</b></p> <p>The contractor &amp; subcontractors shall guarantee the complete installation for a period of five years or as directed by the Project Manager from the date of acceptance of the installation by the principal agent against defects as a result of patent or latent defects of the design and apparatus, as well as against faulty</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1  Bill No. 1  Preliminaries &amp; General  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>materials and workmanship. The guarantee must provide that all parts, spares, consumables and appurtenances that become defective during the guarantee period, be replaced free of charge of any nature to the employer.                  The costs of labour and transportation required to replace such part of a defective installation, shall be borne by the subcontractor and shall be included in his guarantee.                  The expiry of the one year guarantee period shall in no way relieve the subcontractor of any of his obligations and/or responsibilities in respect of latent defects.</p> <p>The contractor shall cede to the employer the remainder of any equipment guarantee which he has received from his suppliers and which extends beyond the period of 5 years mentioned herein.</p> <p><b>CLAUSE 12.4 : COMMISSIONING AND TESTING</b></p> <p>The contractor &amp; subcontractors shall commission and test the entire installation at his own expense, including provision of all test equipment. Such testing is to be done in the presence of the project manager, who shall have been notified of the dates and approximate duration of the tests, sufficiently in advance so as to allow attendance at such tests.</p> <p>F:..... V:.....                  T:.....</p> <p><b><u>E13: GENERAL</u></b></p>		R	
<p>33 <b>CLAUSE 13.1 : CONTRACTOR TO BE RESPONSIBLE</b></p> <p>The contractor acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of work of this contract. The contractor shall be solely responsible for all aspects of the construction the works including but not limited to management, resourcing, programming and co-ordination of sequencing of work all as required for the type of project described and within the time limits and quality standards specified.</p> <p><b>CLAUSE 13.2 : MEDIA RELEASES, ADVERTISING, ETC</b></p> <p>All rights of publication of articles in the media, together</p>	Item 1.00		
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1                  Bill No. 1                  Preliminaries &amp; General  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>with any advertising relating to, or in any way connected with this project, shall vest with the employer.</p> <p>The contractor together with his subcontractors shall not, without the written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media.</p> <p><b>CLAUSE 13.3 : STRUCTURAL SAFETY</b></p> <p>The contractor shall take all reasonable measures to ensure that all alteration works are structurally practicable and safe. The contractor shall provide and price under the relevant demolition item, for all necessary temporary propping and support which may be required.</p> <p><b>CLAUSE 13.4 : CONDEMNED WORK</b></p> <p>The contractor shall remove from the site all materials not conforming with the relevant specification and condemned by the project manager, whether incorporated in the works or not. He shall replace such material and re-execute the affected work in accordance with the contract and without expense to the employer.</p> <p>The contractor shall also bear the expense of making good any other work damaged or destroyed by such removal or replacement.</p> <p><b>CLAUSE 13.5 : PHOTOGRAPHIC RECORD</b></p> <p>A two weekly photographic record is to be provided by the contractor, recording the state of progress of the works. Copies of each photograph annotated with the location and date, are to be made available to the employer via the principal agent.</p> <p><b>CLAUSE 13.6 : ROYALTIES, PATENT RIGHTS AND FEES</b></p> <p>The contractor shall indemnify the principal agent against any action, claim, demand, costs or expenses arising from or incurred by reason of any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor, but such indemnity shall not</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1          Bill No. 1          Preliminaries &amp; General  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>cover any use of the equipment or part thereof otherwise than in accordance with the provisions of the specification.</p> <p>All payments and royalties payable in one sum or by instalments or otherwise, shall be included by the contractor in the price and shall be paid by him to those to whom they may be due or payable.</p> <p>In the event of any claim being made or action brought against the principal agent arising out of the matter referred to in this clause, the contractor shall be promptly notified thereof and may, at his own expense, conduct negotiations for the settlement of the same and/or litigation, that may arise there from. The project manager shall not, unless and until the contractor shall have failed to take over and conduct the negotiations of litigation, make any admission which might be prejudicial thereto.</p> <p>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the project manager such reasonable security as shall from time to time be required by the principal agent, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The project manager shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so.</p> <p>The conduct by the contractor of such negotiations or litigation shall be conditional upon the contractor having first given the principal agent such reasonable security as shall from time to time be required by the project manager, to cover the amount ascertained or agreed or estimated, as the case may be, or any compensation, damage, expenses and costs for which the principal agent may become liable in respect of such infringement as aforesaid. The project manager shall, at the request of the contractor, afford all available assistance for the purpose of contesting any such claim or action and shall be repaid the expenses incurred in doing so.</p> <p><b>CLAUSE 13.7 : QUALITY ASSURANCE</b></p> <p>The tenderer is to submit their proposed formal Quality</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1  Bill No. 1  Preliminaries &amp; General  <b>COEGA</b></p>		R	

34	<p style="text-align: center;"><b>Brought Forward</b></p> <p>Assurance procedures with their tender submission for review by the Project Manager. The cost of preparing and implementing the Quality Assurance procedures is to be borne by the contractor.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p>	1.00	R	
	<p><b><u>E14: MAINTENANCE OF ROADS AND SERVICES</u></b></p> <p>The contractor shall keep the approaches of the site clear of mud, dust, other debris and the like caused by the contractor or any subcontractors. The contractor shall regularly water the access road to keep it free from excessive dust.</p> <p>Damages caused to public and private roads and services due to negligence by the contractor, shall be made good by the contractor at his own expense.</p> <p>Without limiting the generality of the provisions of clause 7.0 of the <b>agreement</b>, the <b>contractor's</b> attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the <b>employer</b> shall prepare a documented health and safety specification for the <b>works</b> and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the <b>works</b>. The <b>project manager</b> shall, on behalf of the <b>employer</b>, issue such health and safety specification in due course and in the interim the <b>contractor</b> shall price separately opposite this item for compliance with the standard provisions of the act and regulations.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p>			1.00
	<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>		R	

<b>Brought Forward</b>				R
<b><u>E15: RESIDENT ENGINEER'S OFFICE</u></b>				
35	The contractor shall establish office accommodation for the Resident Engineers' staff including furniture, services and carpents. Minimum area of 18m2 including furniture for 2 people			
	F:..... V:..... T:.....	Item	1.00	
<b><u>E16 HEALTH AND SAFETY SPECIFICATION</u></b>				
<b><u>E16.1: AWARENESS CHAMPION</u></b>				
36	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the Health and Safety Specification			
	F:..... V:..... T:.....	Item	1.00	
<b><u>E16.2: AWARENESS WORKSHOPS</u></b>				
37	Selection and appointment of competent Service Provider approved by the Representative/Agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of a 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 Health and Safety Specification.			
	F:..... V:..... T:.....	Item	1.00	
<b>Carried Forward</b>				R
Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>				

<b>Brought Forward</b>				R
<b><u>E16.3: HEALTH AND SAFETY REPRESENTATIVE</u></b>				
38	Selection and appointment of competent Health and Safety Officer approved by the Representative/Agent, for inspections of the workplace, keeping records and report all findings to the responsible person, all in accordance to the Health and Safety Specification.  F:..... V:..... T:.....	Item	1.00	
<b><u>E16.4: APPOINTMENT AND TRAINING OF A HEALTH AND SAFETY REP, FIRST AIDER &amp; FIRE FIGHTER</u></b>				
39	Allow for training of a health and safety rep, first aider and a fire fighter, all in accordance with the Health and Safety Specification  F:..... V:..... T:.....	Item	1.00	
<b><u>E16.5: PROVISION OF FIRST AID BOXES, FIRST AID EQUIPMENT &amp; FIRE FIGHTING EQUIPMENT</u></b>				
40	Allow for provision of first aid box , first aid equipment and fire extinguisher all in accordance with the Health and Safety Specification.  F:..... V:..... T:.....	Item	1.00	
<b><u>E16.6: PROVISION OF PERSONAL &amp; PROTECTIVE EQUIPMENT (PPE)</u></b>				
41	Allow for provision of PPE all in accordance with the Health and Safety Specification  F:..... V:..... T:.....	Item	1.00	
<b>Carried Forward</b>				R
Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>				

Brought Forward				R
<b><u>E16.7: PROVISION OF HEALTH AND SAFETY SIGNAGE AND POSTERS</u></b>				
42	Allow for provision of health and safety signage and posters all in accordance with the Health and Safety Specification  F:..... V:..... T:.....	Item	1.00	
<b><u>E16.8: PROVISION OF WELFARE FACILITY</u></b>				
43	Allow for provision of well fare facility all in accordance with the Health and Safety Specification  F:..... V:..... T:.....	Item	1.00	
<b><u>E16.9: CLOSE OUT REQUIREMENTS</u></b>				
44	The Principal Contractor to provide a consolidated close out Health and Safety File confirming the Health and Safety history of the project through a SHE agent  F:..... V:..... T:.....	Item	1.00	
<b>Carried Forward</b>				R
Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>				

45	<b>Brought Forward</b>		R	
	<p><b><u>E17 OCCUPATIONAL HEALTH AND SAFETY ACT</u></b></p>			
	<p>The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p>			
	<p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.</p>			
	<p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. 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>Prices to Allow for:          1. Principal Contractor          2. All Sub-contractors          3. SMME Sub-contractors</p>			
	<p>The contractor is referred to the specifications annexed to this tender documents for comprehensive pricing. Occupational Health &amp; Safety Bill of Quantity annexed to this tender should be included in values at this clause.</p>			
	<p>F:..... V:.....          T:.....</p>	Item	1.00	
	<b>Carried Forward</b>		R	
	<p>Section No. 1          Bill No. 1          Preliminaries &amp; General  <b>COEGA</b></p>			

<b>Brought Forward</b>				R
<b><u>E18 REPORTING BY CONTRACTOR</u></b>				
46	<p>The Contractor is required to complete the CONTRACTOR MONTHLY REPORT which is to be submitted together with the Contractor's payment claim. Payment of the Contractor is conditional on this information being accurate and timeously provided. Payment shall be subject to the Employer giving the Contractor a tax invoice for the amount due. The Contractor is to take note of the following requirements -At the bottom of the CONTRACTOR MONTHLY REPORT, the Site Agent, Clerk of Works, CLO or Contractor must sign the document as proof that the people indicated have worked the number of days</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
<b><u>E19 LOCAL LABOUR AND LOCAL BUILDING MATERIALS</u></b>				
47	<p>It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
<b>Carried Forward</b>				R
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>				

		Brought Forward		R
<b><u>E20 ADMINISTRATION</u></b>				
48	<p>The Contractor must allow for all costs (including any profit and/or attendance) associated with the administration, appointment, training and/or payment of the CLO, Candidate Professionals, Students, EPWP Beneficiaries, APTCOD Learners, Clerk of Works and Steering Committee Members as applicable and included in this tender document. This item must be priced within rates or preliminaries, there is no separate line item for this</p> <p>No additional claims in this regard shall be entertained.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
<b><u>SECTION F: SITE ESTABLISHMENT</u></b>				
<b><u>F1: TEMPORARY WORKS, ETC</u></b>				
Water and Electricity				
49	<p>The Employer does not warrant that any water or electricity supply that may exist is adequate for the proper execution of the works. Where such supply is inadequate, the contractor shall provide an adequate supply at his own expense. The Contractor shall ensure that construction water and electricity is provided at his/her own cost.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
Service - Water				
		<b>Carried Forward</b>		R
Section No. 1 Bill No. 1 Preliminaries & General <b>COEGA</b>				

<b>Brought Forward</b>				R
50	<p>The Contractor is to provide and remove and make good upon completion all the necessary temporary plumbing connections and purchase water from the local authority where applicable, for the works at his own cost. The Contractor shall make and upon completion remove all the necessary temporary plumbing connections and water meters to the Employer's water supply at designated points and be responsible for costs associated with all water consumption. The Contractor is notified that the nearest water supply is not guaranteed and that the contractor shall do own assessments and connection.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p>	1.00		
Service - Electricity				
51	<p>The Contractor is to provide and remove and make good upon completion all the necessary temporary electrical connections and installations and purchase electricity from the local authority for the works at his own cost. The Contractor shall make and upon completion remove all the necessary installation and meters to the Employer's electrical supply at designated points and be responsible for costs associated with all electricity consumption.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p>	1.00		
Ablution facilities				
52	<p>The Contractor is to provide, erect where directed, and remove on completion of the works ablution facilities and shall maintain such facilities in a thoroughly clean and tidy condition.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p>	1.00		
Facilities				
<b>Carried Forward</b>				R
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>				

<b>Brought Forward</b>				R
53	<p>The Contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the project manager and supervisor, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, table and eight chairs. The office shall be kept clean and fit for use at all times.</p> <p>F:..... V:..... T:.....</p> <p>Telecommunication facilities</p>	Item	1.00	
54	<p>The Contractor shall provide the following telecommunication facilities and shall be entitled to recover usage costs from the users thereof:</p> <ul style="list-style-type: none"> <li>• Telephone</li> <li>• Facsimile</li> <li>• E-mail</li> </ul> <p>F:..... V:..... T:.....</p> <p>Security of the works</p>	Item	1.00	
55	<p>The Contractor shall take all appropriate measures for general security of the works.</p> <p>F:..... V:..... T:.....</p> <p>Notice boards</p>	Item	1.00	
<b>Carried Forward</b>				R
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>				

<b>Brought Forward</b>				R
56	<p>The Contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board, size 2,44m wide and 2,89m high, according to the standard drawing available from the employer, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces.</p> <p>The lettering is to be 50mm and 100mm "sans serif" in ivory white on the blue background and in 100mm "sans serif" in navy blue on the ivory white background. The inscription, in one language only, which must bear the approval of the Project Manager. No other names or notice boards may be erected without the written approval of the Project Manager.</p> <p>Sketch drawings of all proposed names or notice boards must be submitted to the Project Manager for approval, before being prepared and erected on site. These sketch drawings must not only show the full content of the proposed names or notice boards, but also the position and locality in which the boards will be erected.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
Notice before covering work				
57	<p>The contractor shall give adequate notice to the project manager whenever any work or material which is subject to inspection or remeasurement is to be covered or concealed in any way. In default of such a notice being received timeously by the project manager such work shall be exposed and later made good at the contractor's expense.</p> <p>F:..... V:..... T:.....</p>	Item	1.00	
Inspection of adjoining properties				
<b>Carried Forward</b>				R
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>				

<b>Brought Forward</b>				R
58	<p>Before commencing with the works the project manager and contractor shall arrange with the owners of adjacent buildings and properties and representatives of local authorities to inspect, among others, the buildings, structures, pavings, kerbs, channels and fences. The contractor shall record all conditions that the works could affect and copy the project manager accordingly. The contractor shall pay particular attention to cracks, defects and existing levels related to structures, pavings, kerbs, channels and fences, which later could be claimed to have been caused or disturbed by the works.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item 1.00</p> <p>Site Meetings and Procedures</p>			
59	<p>The Project Manager and the Contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The Contractor shall attend all site meetings and shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the Project Manager require their attendance at such meetings.</p> <p>The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contract working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item 1.00</p> <p>Attendance to subcontractors</p>			
<b>Carried Forward</b>				R
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>				

		<b>Brought Forward</b>		R	
60	<p>The contractor shall allow all nominated/ selected/ direct subcontractors reasonable usage of hoisting facilities whilst they remain erected.</p> <p>The <b>Contractor</b> shall specifically provide all necessary scaffolding and special scaffolding for all work to the roof, facades, ceilings/bulkheads, electrical works, mechanical works, fire, plumbing &amp; drainage, columns, walls, etc. whether executed by himself or <b>nominated/ selected/ direct subcontractors</b>.</p> <p>F:..... V:..... T:.....</p> <p>Works Area</p>	Item	1.00		
61	<p><b>Site</b> establishment areas must be agreed with the <b>Project Manager</b>. The <b>site</b> shall not be used for any purpose other than that of carrying out the <b>works</b>.</p> <p>Access to the site shall be restricted to one entrance and exit point only as directed by the <b>Project Manager</b> No claims for extras arising from these matters will be subsequently entertained or admitted</p> <p>F:..... V:..... T:.....</p> <p>Management of the works</p>	Item	1.00		
		<b>Carried Forward</b>		R	
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>					

62	Brought Forward	R		
	<p>“The <b>Contractor</b> shall to the satisfaction of the <b>Project Manager</b> provide, in addition to the Foreman, the services of an experienced and competent Construction Manager and Site Agent supported by a management team who shall, inter-alia be responsible for all activities of the <b>Contractor</b> and all <b>Subcontractors</b> and in particular:</p>			
	<ul style="list-style-type: none"> <li>(a) Programming</li> <li>(b) Scheduling</li> <li>(c) Reporting</li> <li>(d) Production of shop drawings and samples</li> <li>(e) Procurement and expediting</li> <li>(f) Liaison and co-ordinating of construction</li> <li>(g) Commissioning, instruction, handover and follow-up</li> <li>(h) Monitoring and reporting on building activities taking place off-site”</li> </ul>			
	<p>The names and CV’s of the <b>Contractor’s site</b> management team shall be submitted to the <b>Project Manager</b> prior to commencement on <b>site</b> and, after agreement on the composition thereof has been obtained, no changes shall be made nor shall any member of the said team be removed from the <b>site</b> while remaining in the employ of the <b>Contractor</b> without express written approval</p>			
	<p>F:..... V:..... T:.....</p>		Item	1.00
	Enclosure of the works			
	Carried Forward	R		
	<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>			

63	<p style="text-align: center;"><b>Brought Forward</b></p> <p>Hoardings shall be as dictated by site circumstances and as may be required by any authority. Adequate hoarding for the site and the contractor's lay down area shall be prepared and priced for by the contractor accordingly, it is imperative that the contractor visits the site and requests more information from the principal agent on these areas. All costs in connection therewith must be borne by the <b>Contractor</b> including any costs in complying with any local or other authorities requirements in this regard</p> <p>Notwithstanding the above, the <b>Contractor</b> shall maintain, move where necessary and provide any additional entrances as he may require and remove the fence or hoarding on completion</p> <p>All hoardings to be maintained to an acceptable standard to the Project Manager's approval</p> <p>F:..... V:..... T:.....</p>	<p>Item</p> <p>1.00</p>	R	
<b>Carried to Final Summary</b>			R	
<p>Section No. 1 Bill No. 1 Preliminaries &amp; General <b>COEGA</b></p>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 1</u></b></p> <p><b><u>DEMOLITIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p>These bills are measured based on the Standard System of Measuring Building Work 2015 Seventh Edition. No claims will be entertained for items not covered by the afore mentioned document.</p>			
	<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2            Bill No. 1            Demolitions  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>The contractor is advised to be in constant communication with the quantity surveyor during the course of the tender process and/or project with regards to the following:</p> <ol style="list-style-type: none"> <li>1. Tender drawings versus the Tender bills of quantities - Should there be a discrepancy between the tender drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately.</li> <li>2. Construction drawings versus the Tender bills of quantities - Should there be a discrepancy between the construction drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately.</li> <li>3. Site Instructions - The quantity surveyor together with the principal agent shall be notified immediately of any site instructions or potential costs in accordance to the contract.</li> </ol> <p>No claims or costs arising out of not adhering to the above will be entertained.</p> <p>Design and Construct:</p> <p>The entire Bills of Quantities shall only be used as a pricing tool and does not supersede the works information, site information and drawings. All works to be executed on site shall be in accordance with drawings and site instructions. The actual works executed on site will be re-measured and adapted to the items outlined within the BoQ.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 1                  Demolitions  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 1          Demolitions  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 1                  Demolitions  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b>Notices</b>                  The Contractor shall, before commencing work, obtain all necessary authorisation for carrying out the work, by whatever means including the use of pneumatic equipment or blasting, give all necessary notices and pay all charges and fees in connection therewith. He shall also comply with all regulations pertaining to rodent extermination and he/she shall obtain the requisite Rodent Extermination Clearance Certificate and pay all necessary fees. All receipts and certificates shall be left in the safekeeping of the Project Manager. Demolitions shall include all the above mentioned charges and fees.</p> <p>The Contractor shall give ample notice to the Project Manager and Local Authorities regarding any disconnections necessary prior to the removal or interruptions of electrical or telephone cables, water and sanitary services, etc.</p> <p><b>Loss</b>                  After the handing over of the site to the Contractor, the full risk of any loss or damage to buildings to be demolished shall be the responsibility Contractor and he shall take such precautions as he/she deems necessary against such loss or damage.</p> <p><b>Disposal of debris, etc.</b>                  The Contractor shall be responsible for the removal from the site of all materials, rubble, debris and rubbish resulting from the demolitions</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 1                  Demolitions  <b>COEGA</b></p>		R	

<b>Brought Forward</b>			R
<b><u>SPECIFIC PRELIMINARIES</u></b>			
<b><u>PHOTOGRAPHS OF EXISTING STRUCTURES</u></b>			
1	The contractor shall compile a complete photographic record of all the adjoining structures prior to commencing with the demolitions	Item	1.00
<b><u>REMOVAL OF EXISTING WORK</u></b>			
<b><u>Breaking down and removing of buildings, etc.</u></b>			
2	Single storey building with pitched roof approximately 105m <sup>2</sup> on plan and 3m high at eaves comprising concrete surface beds, foundations, brick work external walls, brick work internal walls, corrugated roof sheeting on timber trusses. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 1	No	1
3	Prefabricated building comprised of chromadek walls and roof steel panel approximately 25m <sup>2</sup> on plan with and including reinforced concrete and steel plinths, pitched roof and 3m high at eaves, internal walls, all internal items. etc. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 1	No	1
4	Prefabricated building comprised of chromadek walls and roof steel panel approximately 80m <sup>2</sup> on plan with and including reinforced concrete and steel plinths, pitched roof and 3m high at eaves, internal walls, all internal items, etc. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 1	No	1
5	Prefabricated ablution building comprised of chromadek walls and roof steel panel approximately 30m <sup>2</sup> on plan with and including reinforced concrete and steel plinths, pitched roof and 3m high at eaves, internal walls, sanitary fittings, all internal items, etc. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 1	No	1
<b>Carried Forward</b>			R
Section No. 2 Bill No. 1 Demolitions <b>COEGA</b>			

<b>Brought Forward</b>				R
6	Temporary waiting shelter comprising of polycarbonate side cladding, corrugated sheeting, steel posts, paving, foundations, surface beds, etc. approximately 70m2 1 : 0      2 : 0      3 : 0      4 : 0 5 : 1  <u><b>Taking down and removing existing fence</b></u>	No	1	
7	Diamond mesh fence with barb wire approximately 2,100mm high including removal of concrete footings, backfilling, etc. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 212	m	212	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2 Bill No. 1 Demolitions <b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 2</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Principal Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 2 Earthworks <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 2                  Earthworks  <b>COEGA</b></p>		R	

<b>Brought Forward</b>		R
<p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		
<p><b><u>SITE CLEARANCE ETC</u></b></p> <p><b><u>Site clearance</u></b></p>		
1	<p>Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.</p> <p style="text-align: center;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="text-align: center;">5 : 5123</p>	m2 5 123
2	<p>Stripping average 150mm thick layer of top soil and spoil to a dumping site to be located by the contractor.</p> <p style="text-align: center;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="text-align: center;">5 : 768</p>	m3 768
<p><b><u>REMOVAL OF TREES ETC</u></b></p>		
<b>Carried Forward</b>		R
<p>Section No. 2 Bill No. 2 Earthworks <b>COEGA</b></p>		

Brought Forward						R
<b><u>Cutting down, taking out and removing, grubbing up roots and filling in holes.</u></b>						
3	Tree and stump exceeding 200mm and not exceeding 500mm girth. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 5	No	5			
4	Tree and stump exceeding 1,000mm and not exceeding 1,500mm girth. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 8	No	8			
<b><u>BULK EXCAVATIONS</u></b>						
Tenderers are to allow for accommodation of traffic, flagmen, etc. all in accordance to best practise and health & safety requirements. The facilities are in an existing live working environment and all care shall be taken to ensure that the site and access to the site is kept clear of rubble, safe for the client, subcontractors neighbours, etc. and this shall be adhered to for the duration of the project.						
<b><u>Open face excavation in earth over sloping site not exceeding 2m deep</u></b>						
5	Open face cut excavation to fill (cut to and including fill and compaction) 1 : 0      2 : 0      3 : 0      4 : 0 5 : 398	m3	398			
6	Open face cut excavation to spoil (cut to and including spoil) 1 : 0      2 : 0      3 : 0      4 : 0 5 : 371	m3	371			
<b><u>EXCAVATION, FILLING, ETC OTHER THAN BULK EXCAVATIONS</u></b>						
Carried Forward						R
Section No. 2 Bill No. 2 Earthworks <b>COEGA</b>						

Brought Forward					R	
<b><u>Excavation in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u></b>						
7	Trenches 1 : 0      2 : 95      3 : 21      4 : 0 5 : 0	m3	116			
8	Trenches and holes for thickening under surface beds etc 1 : 0      2 : 10      3 : 1      4 : 0 5 : 0	m3	11			
9	Holes 1 : 24      2 : 10      3 : 3      4 : 0 5 : 0	m3	36			
10	Hand excavations 1 : 14      2 : 7      3 : 1      4 : 0 5 : 0	m3	21			
<b><u>Excavation in earth within reduced level (reduced level not exceeding 2m below ground level).</u></b>						
11	To reduce levels to final levels under floors etc. 1 : 52      2 : 0      3 : 0      4 : 0 5 : 0	m3	52			
<b><u>Keeping excavations free of water</u></b>						
12	Keeping excavations free of all water other than subterranean water 1 : 0.00      2 : 0.00      3 : 0.00      4 : 0.00 5 : 1.00	Item	1.00			
<b><u>De-watering of excavations</u></b>						
13	Allow the sum of R50,000.00 for removing seepage and other water from subterranean sources from excavations by pumping, bailing or otherwise. Accurate records of all such de watering 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.	Item	1.00	50 000.00		50 000.00
Carried Forward					R	
Section No. 2 Bill No. 2 Earthworks <b>COEGA</b>						

Brought Forward					R
<b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u></b>					
<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>					
14	Hard rock			m3	38
	1 : 0	2 : 0	3 : 0	4 : 0	
	5 : 38				
15	Class A Boulder Excavation.			m3	50
	1 : 0	2 : 0	3 : 0	4 : 0	
	5 : 50				
<b><u>Extra over all excavations for carting away.</u></b>					
16	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.			m3	189
	1 : 81	2 : 93	3 : 15	4 : 0	
	5 : 0				
<b><u>Risk of collapse of excavations.</u></b>					
17	Sides of trench and hole excavations not exceeding 1,5m deep.			m2	261
	1 : 79	2 : 154	3 : 28	4 : 0	
	5 : 0				
<b><u>FILLING ETC</u></b>					
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage from stock piles, compacted to 93% Mod AASHTO density.</u></b>					
18	Trenches, holes, etc.			m3	45
	1 : 6	2 : 28	3 : 11	4 : 0	
	5 : 0				
Carried Forward					R
Section No. 2 Bill No. 2 Earthworks <b>COEGA</b>					

Brought Forward					R
<p><b><u>Imported selected gravel from commercial sources (Minimum G5 material to TRH14) layer material in 150mm thick layers compacted to 95% modified AASHTO density.</u></b></p>					
19	Below ramps, steps, etc. 1 : 14      2 : 7      3 : 1      4 : 0 5 : 0	m3	21		
20	In Forming Platforms 1 : 0      2 : 0      3 : 0      4 : 0 5 : 371	m3	371		
21	Below surface beds, etc. 1 : 0      2 : 127      3 : 11      4 : 0 5 : 0	m3	138		
<p><b><u>Imported sand blinding below surface beds, paving, etc.</u></b></p>					
22	To form platforms, etc. 1 : 45      2 : 7      3 : 1      4 : 0 5 : 0	m3	53		
<p><b><u>Compaction of surfaces.</u></b></p>					
23	Compaction of ground surfaces under trenches and holes to 90% Mod AASHTO density. 1 : 43      2 : 122      3 : 26      4 : 0 5 : 0	m2	191		
24	Rip up and scarify ground surfaces under floors for a depth of 150mm, breaking down oversize material, including taking up a maximum tolerance of 50mm and adding suitable material where necessary and carting away where necessary and compacting to 95% Mod AASHTO density. 1 : 274      2 : 130      3 : 24      4 : 0 5 : 5123	m2	5 551		
<p><b><u>Prescribed density tests on filling.</u></b></p>					
25	"Modified AASHTO Density" test. 1 : 0      2 : 1      3 : 0      4 : 0 5 : 10	No	12		
Carried Forward					R
<p>Section No. 2 Bill No. 2 Earthworks <b>COEGA</b></p>					

				Brought Forward			R	
26	Natural CBR Indicator Test	1 : 0	2 : 0	3 : 0	4 : 0	No	5	
		5 : 5						
	<b><u>SOIL POISONING</u></b>							
	<b><u>"Hyvar X" or Equivalent Weedkiller mixed with water and applied at a rate of 100grams/m</u></b>							
27	Weed killer applied to earth or earth filling under concrete surface beds, paving, etc., including V-grooves along foundation walls and around columns, etc., including submission of compliance with specification.	1 : 0	2 : 424	3 : 35	4 : 0	m2	459	
		5 : 0						
	<b><u>Soil insecticide</u></b>							
28	To bottoms and sides of trenches etc.	1 : 79	2 : 259	3 : 48	4 : 0	m2	386	
		5 : 0						
29	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	1 : 274	2 : 554	3 : 59	4 : 0	m2	887	
		5 : 0						
<b>Carried Forward to Summary of Section No. 2</b>								R
Section No. 2								
Bill No. 2								
Earthworks								
<b>COEGA</b>								

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 3</u></b></p> <p><b><u>DECANTING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2017 Edition) and to the Supplementary Preambles which are incorporated in this Bill.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' &amp; Engineers' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.</p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 3 Decanting <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p> <p><b><u>Project specifications</u></b></p> <p>Refer to the Project Specifications on the Architect and Engineer's drawings.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 3                  Decanting  <b>COEGA</b></p>		R	

Brought Forward				R
<p><b><u>THE FOLLOWING IN TEMPORARY PRE-FABRICATED MODULAR BUILDINGS ESTABLISHMENT</u></b></p>				
1	<p>Transport to and establishment on site for ALL prefabricated mobile buildings for the execution of the work</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 1</p>	No	1	
2	<p>Setting up ALL prefabricated mobile buildings at position. Ground where building will be positioned should be level and not slope more than 100mm over the length of the building Ground should be compacted to ensure a 100KPa load bearing capacity is achieved</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 1</p>	No	1	
<p><b><u>TEMPORARY WORKS</u></b></p>				
3	<p>Provide temporary storage for loose furniture removed from existing clinic while waiting for the installation of new mobile units</p>	Item	1.00	
<p><b><u>PREFABRICATED BUILDING</u></b></p> <p><b>Rates should include for <u>design (Price for under professional fees), supply and installation</u>, the detail of which must be submitted with this tender to be approved by the Architect. The below descriptions are a guide, the tenderer shall do own designs and cost accordingly based on site visit and site requirements</b></p>				
Carried Forward				R
<p>Section No. 2                      Bill No. 3                      Decanting  <b>COEGA</b></p>				

<b>Brought Forward</b>				R
4	<p>Approved prefabricated pre-painted 60mm thick chromadek wall and roof steel panel modular 'TEMPORARY CLINIC' unit approximately 100m2 in size overall with and including reinforced concrete plinths to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external chromadek panels with one aluminium frame and 3 lever lock &amp; handles, Twelve aluminium windows with top hung openers, vinyl floor cover, electric wiring kit with lights, switches, socket outlet and DB boar and, steel step at the entrances, air-conditioning, internal partitions/ walls (all to match existing temporary clinic), detail of which needs to be submitted with this bid</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 1</p>	No	1	
5	<p>Approved prefabricated pre-painted 60mm thick chromadek wall and roof steel panel modular 'TEMPORARY GUARD HOUSE' unit approximately 12m2 in size overall with and including reinforced concrete plinths to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external chromadek panels with one aluminium frame and 3 lever lock &amp; handles, Three aluminium windows with top hung openers, vinyl floor cover, electric wiring kit with lights, switches, socket outlet and DB boar and, steel step at the entrances, air-conditioning, internal partitions/ walls (all to match existing temporary clinic), detail of which needs to be submitted with this bid</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 1</p>	No	1	
<b>Carried Forward</b>				R
<p>Section No. 2                      Bill No. 3                      Decanting  <b>COEGA</b></p>				

<b>Brought Forward</b>				R
6	<p>Approved prefabricated pre-painted 60mm thick chromadek wall and roof steel panel modular 'TEMPORARY HIV TESTING ROOM' unit approximately 9m2 in size overall with and including reinforced concrete plinths to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external chromadek panels with one aluminium frame and 3 lever lock &amp; handles, Two aluminium windows with top hung openers, vinyl floor cover, electric wiring kit with lights, switches, socket outlet and DB boar and, steel step at the entrances, air-conditioning, internal partitions/ walls (all to match existing temporary clinic), detail of which needs to be submitted with this bid</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 1</p>	No	1	
7	<p>Approved prefabricated pre-painted 60mm thick chromadek wall and roof steel panel modular 'TEMPORARY STORE ROOM' unit approximately 30m2 in size overall with and including reinforced concrete plinths to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external chromadek panels with one aluminium frame and 3 lever lock &amp; handles, Four aluminium windows with top hung openers, vinyl floor cover, electric wiring kit with lights, switches, socket outlet and DB boar and, steel step at the entrances, air-conditioning, internal partitions/ walls (all to match existing temporary clinic), detail of which needs to be submitted with this bid</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 1</p>	No	1	
<b>Carried Forward</b>				R
<p>Section No. 2                      Bill No. 3                      Decanting  <b>COEGA</b></p>				

<b>Brought Forward</b>				R
8	<p>Approved prefabricated pre-painted 60mm thick chromadek wall and roof steel panel modular 'MALE &amp; FEMALE' ablution unit size overall 9,300 x 4,400mm with and including reinforced concrete plinths to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external chromadek panels with all the necessary aluminium frame and 3 lever lock &amp; handles, necessary aluminium windows with top hung openers, vinyl floor cover, electric wiring kit with lights, switches, socket outlet and DB board, steel step at the entrances and including all the necessary sanitary fittings, toilet roll holders, mirrors, signage, etc. detail of which needs to be submitted with this bid</p> <p style="text-align: center;">1 : 0      2 : 0      3 : 0      4 : 0 5 : 1</p>	No	1	
9	<p>Approved prefabricated pre-painted 60mm thick chromadek wall and roof steel panel modular 'FEMALE' ablution unit size overall 9,300 x 4,400mm with and including reinforced concrete plinths to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external chromadek panels with all the necessary aluminium frame and 3 lever lock &amp; handles, necessary aluminium windows with top hung openers, vinyl floor cover, electric wiring kit with lights, switches, socket outlet and DB board, steel step at the entrances and including all the necessary sanitary fittings, toilet roll holders, mirrors, signage, etc. detail of which needs to be submitted with this bid</p> <p style="text-align: center;">1 : 0      2 : 0      3 : 0      4 : 0 5 : 1</p>	No	1	
<b><u>REMOVAL OF LOOSE FURNITURE FROM EXISTING BUILDINGS AND TEMPORARY STORAGE</u></b>				
10	<p>Removal of loose furniture from existing buildings and place in temporary storage until new mobile units are installed</p>	Item	1.00	
<b><u>REMOVAL OF LOOSE FURNITURE FROM TEMPORARY STORAGE AREA INTO NEWLY SUPPLIED MOBILE UNITS</u></b>				
11	<p>Removal of loose furniture from temporary storage into newly supplied mobile units</p>	Item	1.00	
<b>Carried Forward</b>				R
<p>Section No. 2                  Bill No. 3                  Decanting  <b>COEGA</b></p>				

Brought Forward					R
<b><u>PREPARATION AND EXTERNAL WORKS</u></b>					
<b><u>SITE CLEARANCE ETC</u></b>					
<b><u>Site clearance</u></b>					
12	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	106		
	1 : 0      2 : 0      3 : 0      4 : 0				
	5 : 106				
13	Stripping average 150mm thick layer of top soil and spoil to a dumping site to be located by the contractor.	m3	16		
	1 : 0      2 : 0      3 : 0      4 : 0				
	5 : 16				
<b><u>THE FOLLOWING IN SEPTIC TANK</u></b>					
<b><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></b>					
<b><u>EXCAVATIONS</u></b>					
<b><u>Excavation in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u></b>					
14	Hand excavations	m3	16		
	1 : 0      2 : 0      3 : 0      4 : 0				
	5 : 16				
<b><u>Extra over all excavations for carting away.</u></b>					
15	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	16		
	1 : 0      2 : 0      3 : 0      4 : 0				
	5 : 16				
<b><u>FILLING ETC</u></b>					
Carried Forward					R
Section No. 2					
Bill No. 3					
Decanting					
<b>COEGA</b>					

Brought Forward					R
<b><u>Imported crushed stone material from commercial sources in 150mm thick layers</u></b>					
16	19mm Washed broken stone filling placed in walkways 1 : 0      2 : 0      3 : 0      4 : 0 5 : 32	m3	32		
<b><u>Compaction of surfaces.</u></b>					
17	Rip up and scarify ground surfaces under floors for a depth of 150mm, breaking down oversize material, including taking up a maximum tolerance of 50mm and adding suitable material where necessary and carting away where necessary and compacting to 95% Mod AASHTO density. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 106	m2	106		
<b><u>SOIL POISONING</u></b>					
<b><u>"Hyvar X" or Equivalent Weedkiller mixed with water and applied at a rate of 100grams/m</u></b>					
18	Weed killer applied to earth or earth filling under concrete surface beds, paving, etc., including V-grooves along foundation walls and around columns, etc., including submission of compliance with specification. 1 : 0      2 : 0      3 : 0      4 : 0 5 : 106	m2	106		
<b><u>BULK EXCAVATIONS</u></b>					
<b><u>Bulk excavation in earth exceeding 2m and not exceeding 4m deep</u></b>					
19	Cut to spoil (Septic Tank excavation material to be spoiled and priced for only on this item specifically). 1 : 0      2 : 0      3 : 0      4 : 0 5 : 33	m3	33		
<b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u></b>					
Carried Forward					R
Section No. 2 Bill No. 3 Decanting <b>COEGA</b>					

Brought Forward					R
<b><u>Extra over bulk excavation in earth for excavation in</u></b>					
20	Hard rock			m3	3
	1:0	2:0	3:0	4:0	
	5:3				
<b><u>Extra over all excavations for carting away.</u></b>					
21	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.			m3	33
	1:0	2:0	3:0	4:0	
	5:33				
<b><u>Keeping excavations free of water</u></b>					
22	Keeping excavations free of water.			Item	1.00
	1:0.00	2:0.00	3:0.00	4:0.00	
	5:1.00				
<b><u>FILLING ETC</u></b>					
<b><u>Imported G5 fill layer material in 150mm thick layers compacted to 95% modified AASHTO density.</u></b>					
23	To form platforms, etc.			m3	5
	1:0	2:0	3:0	4:0	
	5:5				
<b><u>Compaction of surfaces.</u></b>					
24	Rip up and scarify ground surfaces under floors for a depth of 150mm, breaking down oversize material, including taking up a maximum tolerance of 50mm and adding suitable material where necessary and carting away where necessary and compacting to 93% Mod AASHTO density.			m2	15
	1:0	2:0	3:0	4:0	
	5:15				
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>					
Carried Forward					R
Section No. 2 Bill No. 3 Decanting <b>COEGA</b>					

				Brought Forward		R
				<b><u>25MPa/19mm concrete</u></b>		
25	Bases			m3	3	
	1:0	2:0	3:0	4:0		
	5:3					
26	70 x 70mm Coved concrete triangular fillet cast on top of pit base slab, etc. wood floated			m	16	
	1:0	2:0	3:0	4:0		
	5:16					
				<b><u>REINFORCED CONCRETE</u></b>		
				<b><u>25MPa/19mm concrete</u></b>		
27	Built up slabs, on top of Bond-dek slabs, etc.			m3	3	
	1:0	2:0	3:0	4:0		
	5:3					
				<b><u>CONCRETE SUNDRIES</u></b>		
				<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>		
28	Concrete Surfaces, etc			m2	15	
	1:0	2:0	3:0	4:0		
	5:15					
				<b><u>Steel float</u></b>		
29	Finish to top surface of concrete ablution base with a steel trowel.			m2	15	
	1:0	2:0	3:0	4:0		
	5:15					
				<b><u>PERMANENT FORMWORK (DEGREE OF ACCURACY II)</u></b>		
				Carried Forward		
						R
Section No. 2						
Bill No. 3						
Decanting						
<b>COEGA</b>						



Brought Forward				R
<b><u>WATERPROOFING TO PIT TOILET WALLS</u></b>				
<b><u>Design, supply and install "ABE Cementitious flexible waterproofing slurry" or equivalent, lanko Hydroflex embedded or equally approved, in a polyester cloth where necessary</u></b>				
35	Against foundation pit walls 1 : 0      2 : 0      3 : 0      4 : 0 5 : 35	m2	35	
<b><u>EXCAVATION FOR PIPES</u></b>				
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
36	Trench excavation for pipes not exceeding 1m wide (Pipes measured elsewhere) 1 : 0      2 : 0      3 : 0      4 : 0 5 : 45	m3	45	
<b><u>Earth filling imported by the contractor, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>				
37	Imported class B bedding of continuous mould of selected granular material for bedding pipe barrel 1 : 0      2 : 0      3 : 0      4 : 0 5 : 9	m3	9	
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage exceeding 100m and not exceeding 200m from perimeter of excavations or stock piles, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>				
38	Selected fill blanket compacted uniformly with light compaction directly over the pipe 1 : 0      2 : 0      3 : 0      4 : 0 5 : 36	m3	36	
<b><u>SOIL DRAINAGE</u></b>				
Carried Forward				R
Section No. 2 Bill No. 3 Decanting <b>COEGA</b>				

		Brought Forward		R	
<p><b>HDPE PE 100 (Class PN 10) pipes including couplings in the running lengths laid within or inside HDPE sleeve pipe (Sleeve pipe, excavation &amp; backfill measured elsewhere)</b></p>					
39	<p>160mm Diameter pipes laid to falls inside HDPE sleeve pipe</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 30</p>	m	30		
<p><b><u>Manhole covers and frames, etc.</u></b></p>					
40	<p>860mm Diameter Precast manhole cover and frame</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 1</p>	No	1		
<p><b><u>BUDGETARY ALLOWANCES</u></b></p>					
41	<p>Allow the sum of R100 000.00 One Hundred Thousand for the Services Connection to the Mobile Units.</p>	Item	1.00	100 000.00	100 000.00
<p><b>Carried Forward to Summary of Section No. 2</b></p>				R	
<p>Section No. 2                      Bill No. 3                      Decanting  <b>COEGA</b></p>					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 4</u></b></p> <p><b><u>PREFABRICATED MODULAR BUILDINGS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 4 Prefabricated Modular Buildings <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p> <p><b><u>Project specifications</u></b></p> <p>Refer to the Project Specifications on the Architect's drawings where applicable.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 4                  Prefabricated Modular Buildings  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Guarantee</u></b></p> <p>A written and approved five-year guarantee of water-tightness, structural design, etc. shall be issued prior to site handover including any maintenance manuals.</p> <p><b><u>Cleaning of finishes</u></b></p> <p>All finishes shall be thoroughly cleaned down on completion. No additional costs for cleaning will be entertained</p>		R	
---	--	---	--

<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 4 Prefabricated Modular Buildings <b>COEGA</b></p>		R	
--	--	---	--

Brought Forward				R
<b><u>THE FOLLOWING IN PRE-FABRICATED BUILDINGS</u></b>				
<b><u>TEMPORARY BARRIERS, SCREENS, ETC</u></b>				
<b><u>Temporary barriers, screens, etc. including removal and storage for reuse (Contractor to allow for own hoarding of site camp under P&amp;G)</u></b>				
Diamond mesh fencing including two coats aluminium paint on metal stays, framing, etc				
1	1,8m High fencing formed of six straining wires passed through posts and tied to straining posts or eye bolts covered with green shade 80% density meshnet fixed to straining wires (Including excavations, backfilling, etc.)	m	220	
	1 : 220      2 : 0      3 : 0      4 : 0			
	5 : 0			
2	3m Wide x 1,8m high double entrance gate	No	1	
	1 : 1      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>ESTABLISHMENT</u></b>				
3	Transport to and establishment on site for ALL prefabricated mobile buildings for the execution of the work	No	1	
	1 : 1      2 : 0      3 : 0      4 : 0			
	5 : 0			
4	Setting up ALL prefabricated mobile buildings at position. Ground where building will be positioned should be level and not slope more than 100mm over the length of the building Ground should be compacted to ensure a 100KPa load bearing capacity is achieved	No	1	
	1 : 1      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>TEMPORARY WORKS</u></b>				
5	Provide temporary storage for loose furniture removed from existing clinic while waiting for the installation of new mobile units for the full duration of the contract (until practical completion)	Item	1.00	
Carried Forward				R
Section No. 2 Bill No. 4 Prefabricated Modular Buildings <b>COEGA</b>				

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>PREFABRICATED BUILDING</u></b></p> <p><b>Rates should include for design (Price for under professional fees), supply and installation</b>, the detail of which must be submitted with this tender to be approved by the Architect. The below descriptions are a guide, the tenderer shall do own designs and cost accordingly based on site visit and site requirements</p> <p><b>Design Intent and / description of items:</b></p> <p>The contractor shall provide the following full solution:</p> <ol style="list-style-type: none"> <li>1. Prefabricated building to rest on levelled out platform (earthworks platform measured elsewhere)</li> <li>2. The prefabricated building shall come with fully designed floor system which shall adequately rest on stools and/ or where suitable to the advise of the contractor.</li> <li>3. The system shall be of "Trumod walling" or equally acceptable including 0.8mm IBR chromadek roof sheeting insulated using sisalation FR430 or equally approved insulation including seamless gutters, flashings, ridges, fascias and barge boards, etc.</li> <li>4. The system shall accommodate a central double volume in the waiting area as per the drawings.</li> <li>5. The contractor is referred to the "IUSS Health Facilities guide" for detailed information which shall be incorporated in the pricing.</li> <li>6. Forming of Penetrations and sealing watertight - to be included on the price (walls, floors, etc.)</li> <li>7. Wall supports to hang various items, e.g. supports to hang air-con units, signage, lights, etc.</li> </ol>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 4                  Prefabricated Modular Buildings  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Finishing and pricing guidelines:</p> <ul style="list-style-type: none"> <li>• Geo-technical investigation - By others</li> <li>• Site Survey and confirmation of services - to be included on the price</li> <li>• Stools or base support - To be included on the price.</li> <li>• Final Floor Finish shall be vinyl (Measured elsewhere), actual floor system and insulation to be included on the price. Where applicable, screeds to be included on the price.</li> <li>• Door and window openings with frames to be included on the price with the associated frames (follow the drawing as a guideline), actual doors, windows, ironmongery, etc. measured elsewhere.</li> <li>• Walling system (Tru-Mod) to be included on the price with associated/ acceptable wall thickness (design &amp; supply) including wall insulation.</li> <li>• Roof sheeting shall be 0.8mm IBR chromadek roof sheeting insulated using sisalation FR430 or equally approved insulation including seamless gutters, flashings, ridges, fascias and barge boards, etc.</li> <li>• Painting - to be included on the price.</li> <li>• Ceilings are measured elsewhere.</li> <li>• Veranda supports to be included on the price.</li> <li>• Transport, setting out, all related labour, commissioning to be included on the price.</li> <li>• Fittings, Joinery, etc. measured elsewhere.</li> <li>• Final Electrical light fittings, lightning protection, mechanical (Aircon) all measured elsewhere. The contractor shall allow for first and second fix installation, sleeves, etc. on the pricing including wiring, etc.</li> <li>• Final Plumbing and drainage, sanitary fittings, etc. measured elsewhere. The contractor shall allow for first fix and second fix installation, sleeves, etc. on the pricing.</li> <li>• Staff accommodation to be included on the pricing.</li> <li>• Associated site and external works - Measured elsewhere.</li> </ul>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2  Bill No. 4  Prefabricated Modular Buildings  <b>COEGA</b></p>		R	

<b>Brought Forward</b>				R
6	<p>Approved prefabricated pre-painted building with floor, wall and roof steel panel modular 'MAIN CLINIC BUILDING' unit approximately 985m<sup>2</sup> in size overall with and including reinforced concrete plinths where applicable to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external and internal Tru-mod wall panels all as per the tender drawings provided with aluminium doors frames, aluminium window frames, vinyl floor cover (measured elsewhere), electric wiring kit with lights, switches, socket outlet and DB board (First and second fix, final fix measured elsewhere), steel step at the entrances, air-conditioning (measured elsewhere), IBR roof sheeting with insulation, suspended ceilings (measured elsewhere), internal plumbing &amp; drainage (first fix only, second and final fix measured elsewhere), seamless aluminium gutters with downpipes, etc., detail of which needs to be submitted with this bid</p> <p style="text-align: center;">1 : 1      2 : 0      3 : 0      4 : 0 5 : 0</p>	No	1	
7	<p>Approved prefabricated pre-painted building with floor, wall and roof steel panel modular 'WASTE STORES BUILDING' unit approximately 58m<sup>2</sup> in size overall with and including reinforced concrete plinths where applicable to be positioned +/- every 2,5m or equally approved between the length of the building for the placement of the modular building. Building to contain external and internal Tru-mod wall panels all as per the tender drawings provided with aluminium doors frames, aluminium window frames, vinyl floor cover (measured elsewhere), electric wiring kit with lights, switches, socket outlet and DB board (First and second fix, final fix measured elsewhere), steel step at the entrances, air-conditioning (measured elsewhere), IBR roof sheeting with insulation, suspended ceilings (measured elsewhere), internal plumbing &amp; drainage (first fix only, second and final fix measured elsewhere), seamless aluminium gutters with downpipes, etc., detail of which needs to be submitted with this bid</p> <p style="text-align: center;">1 : 1      2 : 0      3 : 0      4 : 0 5 : 0</p>	No	1	
<b>Carried Forward</b>				R
<p>Section No. 2                  Bill No. 4                  Prefabricated Modular Buildings  <b>COEGA</b></p>				

Brought Forward				R
<b><u>REMOVAL OF LOOSE FURNITURE FROM EXISTING BUILDINGS AND TEMPORARY STORAGE</u></b>				
8	Removal of loose furniture from existing buildings and place in temporary storage until new mobile units are installed (Storage costs elsewhere)	Item	1.00	
<b><u>REMOVAL OF LOOSE FURNITURE FROM TEMPORARY STORAGE AREA INTO NEWLY SUPPLIED MOBILE UNITS</u></b>				
9	Removal of loose furniture from temporary storage into newly supplied mobile units	Item	1.00	
<b><u>BIRDPROOFING</u></b>				
10	uPVC Bird proofing 400mm wide including pair of 50 x 50 mm galvanised fixing angles.	m	52	
	1 : 52      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b>Carried Forward</b>				R
Section No. 2 Bill No. 4 Prefabricated Modular Buildings <b>COEGA</b>				

Brought Forward				R
<b><u>TESTS</u></b>				
<u>Flood testing</u>				
11	Perform flood or leak testing for the entire wall and roof system on ALL prefabricated buildings & gutters, fix leaks (if any) and re-do the flood test ensuring no leaks at handover.	No	1	
	1 : 1      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>BUDGETARY ALLOWANCES</u></b>				
12	Allow the sum of R150 000.00 One Hundred and Fifty Thousand for the Services Connection to the Mobile Units.	Item	1.00	150 000.00      150 000.00
13	Allow the sum of R100 000.00 One Hundred Thousand for the payment of the nominated Health & Safety Officer on behalf of the employer.	Item	1.00	100 000.00      100 000.00
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 4				
Prefabricated Modular Buildings				
<b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 5</u></b></p> <p><b><u>CONCRETE AND FORMWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Project specification</u></b></p> <p>5.1.1 "Only CEM I 42,5 (Portland cement) or CEM II/A-V 42,5 (Portland fly ash cement) or CEM II/A-S 42,5 (Portland slag cement) or CEM II/B-S 42,5 (Portland slag cement) according to SANS 50197-1 (SABS ENV 197-1), may be used. The cement may not consist of more than 20% siliceous fly ash or 30% granulated blast furnace slag, blended with the Portland Cement. Should the contractor wish to use any other type of cement, he shall obtain the engineer's prior written approval." <b>No industrial waste from industrial facilities co-fired with hazardous waste may be used.</b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 5 Concrete, Formwork &amp; Reinforcement <b>COEGA</b></p>			
			R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Tolerance</u></b></p> <p>Tolerance shall be based on Accuracy Degree II as described on the particular section</p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p>Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated</p> <p><b><u>Formwork</u></b></p> <p>Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 5                  Concrete, Formwork &amp; Reinforcement  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 5 Concrete, Formwork &amp; Reinforcement <b>COEGA</b></p>		R	

Brought Forward				R
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>15MPa/20mm concrete</u></b>				
1	Surface blinding under footings and bases 1 : 2      2 : 6      3 : 1      4 : 0 5 : 0	m3	10	
<b><u>30MPa/20mm concrete</u></b>				
2	Mass concrete to floors 1 : 52      2 : 6      3 : 1      4 : 0 5 : 0	m3	59	
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<b><u>30MPa/19mm concrete</u></b>				
3	Surface beds and thickenings cast in panels on waterproofing 1 : 0      2 : 74      3 : 6      4 : 0 5 : 0	m3	80	
4	Footings 1 : 0      2 : 32      3 : 6      4 : 0 5 : 0	m3	38	
5	Bases 1 : 13      2 : 5      3 : 2      4 : 0 5 : 0	m3	20	
<b><u>REINFORCED CONCRETE</u></b>				
<b><u>20MPa/19mm concrete</u></b>				
6	Aprons cast in panels on waterproofing and laid to falls 1 : 14      2 : 7      3 : 1      4 : 0 5 : 0	m3	21	
Carried Forward				R
Section No. 2 Bill No. 5 Concrete, Formwork & Reinforcement <b>COEGA</b>				

Brought Forward					R
<b><u>30MPa/19mm concrete</u></b>					
7	Slabs including beams, inverted beams.		m3	12	
	1 : 0      2 : 0      3 : 12      4 : 0				
	5 : 0				
8	Built up slabs, plinths, etc.		m3	8	
	1 : 8      2 : 0      3 : 0      4 : 0				
	5 : 0				
9	Columns		m3	1	
	1 : 1      2 : 0      3 : 0      4 : 0				
	5 : 0				
<b><u>TEST CUBES</u></b>					
10	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved independent testing laboratory for testing and paying all charges in connection therewith. (Provisional)		No	11	
	1 : 1      2 : 8      3 : 2      4 : 0				
	5 : 0				
<b><u>CONCRETE SUNDRIES</u></b>					
<b><u>Finishing top surfaces of concrete smooth with a power float</u></b>					
11	Slabs, etc		m2	35	
	1 : 0      2 : 0      3 : 35      4 : 0				
	5 : 0				
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>					
12	Surface beds, etc		m2	1 500	
	1 : 1041      2 : 424      3 : 35      4 : 0				
	5 : 0				
13	Aprons to falls, etc		m2	428	
	1 : 274      2 : 130      3 : 24      4 : 0				
	5 : 0				
Carried Forward					R
Section No. 2 Bill No. 5 Concrete, Formwork & Reinforcement <b>COEGA</b>					

Brought Forward				R
<b><u>Steel float</u></b>				
14	Tops of upstand beams, etc. 1:0      2:0      3:6      4:0 5:0	m2	6	
15	Built up slabs, plinths, etc. 1:17      2:0      3:0      4:0 5:0	m2	17	
<b><u>Void formers to built up slabs, plinths, etc</u></b>				
16	Polystyrene Void former blocks 600 x 600 x 300mm 1:6      2:0      3:0      4:0 5:0	No	6	
<b><u>Roof outlets (cast in):</u></b>				
17	Geberit 359.119.00.1 pluvia roof outlet 9L/S or equally approved 1:0      2:0      3:2      4:0 5:0	No	2	
18	160mm Vertical outlet cast on concrete 1:0      2:0      3:2      4:0 5:0	No	2	
19	160mm 45 Degree side outlet cast on concrete 1:0      2:0      3:2      4:0 5:0	No	2	
<b><u>Sleeve penetrations (Cast in)</u></b>				
20	200mm Diameter sleeve penetration cast in horizontally through 100mm deep slabs, surface beds, etc. including hole through formwork, etc. 1:6      2:3      3:0      4:0 5:0	No	9	
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
Carried Forward				R
Section No. 2 Bill No. 5 Concrete, Formwork & Reinforcement <b>COEGA</b>				

		Brought Forward		R
<b><u>Rough formwork to sides of aprons</u></b>				
21	Edges, risers, ends and reveals not exceeding 300mm high or wide 1 : 274    2 : 130    3 : 24    4 : 0 5 : 0	m	428	
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
<b><u>Smooth formwork not exceeding 3.5m high above bearing level, to:</u></b>				
22	Edges, risers, ends and reveals exceeding 300mm high or wide (Plinths) 1 : 14    2 : 0    3 : 0    4 : 0 5 : 0	m2	14	
23	Edges, risers, ends and reveals not exceeding 300mm high or wide 1 : 0    2 : 0    3 : 24    4 : 0 5 : 0	m	24	
24	Sides of rectangular columns 1 : 20    2 : 0    3 : 0    4 : 0 5 : 0	m2	20	
25	Soffits of slabs exceeding 250mm and not exceeding 500mm thick 1 : 0    2 : 0    3 : 35    4 : 0 5 : 0	m2	35	
26	Sides of inverted beams (above concrete) 1 : 0    2 : 0    3 : 12    4 : 0 5 : 0	m2	12	
27	Sides and soffits of beams 1 : 0    2 : 0    3 : 12    4 : 0 5 : 0	m2	12	
<b><u>SUNDRY FORMWORK</u></b>				
		Carried Forward		R
Section No. 2 Bill No. 5 Concrete, Formwork & Reinforcement <b>COEGA</b>				

<b>Brought Forward</b>				R
<b><u>Boxing in smooth formwork to form:</u></b>				
28	20 x 20mm Vertical chamfer at corners. 1 : 77      2 : 0      3 : 0      4 : 0 5 : 0	m	77	
29	20 x 20mm Horizontal chamfer at corners. 1 : 0      2 : 0      3 : 48      4 : 0 5 : 0	m	48	
<b><u>MOVEMENT JOINTS ETC.</u></b>				
<b><u>Expansion joints with Jointex between vertical concrete surfaces.</u></b>				
30	20mm Joints not exceeding 300mm high or wide. 1 : 6      2 : 0      3 : 0      4 : 0 5 : 0	m	6	
<b><u>Expansion joints with Jointex between vertical concrete surfaces of aprons.</u></b>				
31	15mm Joints not exceeding 300mm high or wide. 1 : 274      2 : 130      3 : 24      4 : 0 5 : 0	m	428	
<b><u>Saw cut joints</u></b>				
32	50 x 3mm Saw cut joints in top of concrete 1 : 232      2 : 78      3 : 11      4 : 0 5 : 0	m	322	
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
<b><u>High tensile steel reinforcement to structural concrete work</u></b>				
33	Steel reinforcing bars in foundations 1 : 1.04      2 : 4.20      3 : 1.04      4 : 0.00 5 : 0.00	t	6.27	
34	Steel reinforcing bars in structural concrete 1 : 2.05      2 : 0.00      3 : 2.06      4 : 0.00 5 : 0.00	t	4.10	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 5 Concrete, Formwork & Reinforcement <b>COEGA</b>				

Brought Forward				R
<b><u>High tensile steel dowel bars.</u></b>				
35	16mm Diameter anti crack mild steel Y bars 1000mm long on stools around columns & corners	t	0.09	
	1 : 0.09    2 : 0.00    3 : 0.00    4 : 0.00			
	5 : 0.00			
36	16mm Diameter mild steel Y bars on stools to thickenings	t	0.02	
	1 : 0.00    2 : 0.02    3 : 0.00    4 : 0.00			
	5 : 0.00			
<b><u>Fabric reinforcement</u></b>				
37	Type 100 fabric reinforcement in concrete surface beds, etc.	m2	1 041	
	1 : 1041    2 : 0    3 : 0    4 : 0			
	5 : 0			
38	Type 193 fabric reinforcement on top of built up slabs, plinths, etc.	m2	17	
	1 : 17    2 : 0    3 : 0    4 : 0			
	5 : 0			
39	Type 193 fabric reinforcement in concrete aprons laid to falls, etc.	m2	428	
	1 : 274    2 : 130    3 : 24    4 : 0			
	5 : 0			
40	Type 245 fabric reinforcement in concrete surface beds, etc.	m2	459	
	1 : 0    2 : 424    3 : 35    4 : 0			
	5 : 0			
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 5				
Concrete, Formwork & Reinforcement				
<b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 6</u></b></p> <p><b><u>PRECAST CONCRETE</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Sizes</u></b></p> <p>Blocks, sills, etc. measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the principal agent for approval before moulds are made</p> <p><b><u>General</u></b></p> <p>Where kerbstones, blocks, etc. are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming</p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Principal Manager and that tenderers should allow in their rates for such protection.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 6 Precast Concrete <b>COEGA</b></p>			
			R	

<b>Brought Forward</b>		R
<p><b><u>Samples</u></b></p> <p>Samples of all precast concrete works shall be priced, delivered to site and provided to the principal agent for approval.</p> <p><b><u>Mortar</u></b></p> <p>The mortar materials shall be mixed dry until a uniform colour is attained. Water shall then be added and the mixture turned over until the ingredients are thoroughly incorporated. The mortar shall be produced in such quantities that no setting occurs before use. (Usually less than 2 hours). When cement mortar is mixed old mortar that has already set shall be removed from the mixer or the platform as such mortar may not be incorporated in a new batch. No water shall be added afterwards to improve workability.</p> <p><b><u>Accuracy in building</u></b></p> <p>Unless specified otherwise accuracy grade II shall apply as set out in SANS 10155.</p>		
<p><b><u>PRECAST CONCRETE COPINGS, ETC</u></b></p> <p><b><u>Precast concrete finished smooth on exposed surfaces, bedded in class II mortar, including jointing, pointing</u></b></p>		
1	<p>Coping type 014 "Modcon or similar approved" 370x75x65mm thick overall copings weathered on top to 65mm thick along one edge, with two drip grooves on the bottom along both edges and joint sealer on top side</p> <p style="text-align: center;">1 : 0      2 : 130      3 : 24      4 : 0 5 : 0</p>	m 154
2	<p><b><u>PRECAST CONCRETE DUST BIN</u></b></p> <p>500 x 500 x 800mm high Precast concrete dustbin with 50mm diameter hole at the bottom for drainage.</p> <p style="text-align: center;">1 : 10      2 : 0      3 : 0      4 : 0 5 : 0</p>	No 10
<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2 Bill No. 6 Precast Concrete <b>COEGA</b></p>		R

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 7</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Joints</u></b></p> <p>A 10mm clean joint must be left between the top surfaces of internal brick walls and the soffits of concrete slabs. Care must be taken to assure that no mortar, pieces of brick or any other objects exist in the joint</p> <p><b><u>Wire Ties</u></b></p> <p>Descriptions of brickwork shall be deemed to include wire ties</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 7 Masonry <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Face brickwork</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour. Descriptions of face brickwork shall be deemed to include pointing on all exposed surfaces.</p> <p><b><u>Samples</u></b></p> <p>Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site.</p> <p><b><u>Storage of materials on site</u></b></p> <p>Structural units delivered to the site shall be carefully unloaded by hand or crane, and placed on prepared areas free from clinker, ash or sulphate-bearing soils and in separate stacks according to strength. The stacks shall be protected from rain and arranged to allow free circulation of air.</p> <p>Cement shall be stored off the ground in a dry weatherproof structure to facilitate inspection and to permit the use of materials in the order of delivery.</p> <p>Sand shall be stored separately according to type and in such a way that it will not become contaminated.</p> <p><b><u>Treatment of masonry units</u></b></p> <p>Burnt clay units with an initial water absorption rate that exceeds 1,8 kg/m<sup>2</sup> min shall be wetted prior to laying to reduce the rate to between 0,7 and 1,8 kg/m<sup>2</sup> min.</p> <p><b><u>Cleaning of facebrick</u></b></p> <p>Cleaning of all face brick to be done with sugar soap. Remove surface contaminants using sugar soap solution - 500 g sugar soap powder dissolved in 5 litres water, or sugar soap liquid. All in strict accordance to manufacturers specifications. Washing of walls to be from bottom to top and to be done only with non-abrasive cloths. For stubborn contaminants use hot water in the above mix and a bristle broom or scrubbing brush. Rinse with tap water to remove all traces of sugar soap and allow to dry.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 7                  Masonry  <b>COEGA</b></p>		R	

**Brought Forward**

**Mortar**

The mortar materials shall be mixed dry until a uniform colour is attained. Water shall then be added and the mixture turned over until the ingredients are thoroughly incorporated. The mortar shall be produced in such quantities that no setting occurs before use. (Usually less than 2 hours). When cement mortar is mixed old mortar that has already set shall be removed from the mixer or the platform as such mortar may not be incorporated in a new batch. No water shall be added afterwards to improve workability.

**Accuracy in building**

Unless specified otherwise accuracy grade II shall apply as set out in SANS 10155.

R

**Carried Forward**

Section No. 2  
Bill No. 7  
Masonry  
**COEGA**

R

		Brought Forward		R
<b><u>FOUNDATIONS</u></b>				
<b><u>Brickwork of NFX bricks or equally approved (14 MPa nominal compressive strength) in class II mortar</u></b>				
1	NFX Class II mortar: One brick walls 1 : 0      2 : 0      3 : 18      4 : 0 5 : 0	m2	18	
<b><u>SUPERSTRUCTURE</u></b>				
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) perforated plaster brick size 222x73x106mm in class II mortar manufactured in accordance with SANS 227:2007</u></b>				
2	NFX Class II mortar: Half brick walls 1 : 0      2 : 357      3 : 28      4 : 0 5 : 0	m2	384	
3	NFP Class II mortar: Half brick linings built or battered against concrete columns in forming joints 1 : 38      2 : 0      3 : 0      4 : 0 5 : 0	m	38	
4	NFX Class II mortar: One brick walls 1 : 0      2 : 553      3 : 91      4 : 0 5 : 0	m2	644	
<b><u>BRICKWORK SUNDRIES</u></b>				
<b><u>Brickwork reinforcement</u></b>				
5	75mm Wide reinforcement built in horizontally 1 : 0      2 : 1897      3 : 82      4 : 0 5 : 0	m	1 979	
6	150mm Wide reinforcement built in horizontally 1 : 0      2 : 1626      3 : 320      4 : 0 5 : 0	m	1 946	
		Carried Forward		R
Section No. 2 Bill No. 7 Masonry <b>COEGA</b>				

		Brought Forward		R
<b><u>Galvanised hoop iron cramps, ties, etc.</u></b>				
7	16 x 32 x 400mm Galvanised mild steel straps shot pinned to concrete and laid in mortar bed every fourth course 1 : 113      2 : 0      3 : 0      4 : 0 5 : 0	No	113	
<b><u>Turning pieces to lintels, etc.</u></b>				
8	230mm Wide turning pieces 1 : 65      2 : 32      3 : 11      4 : 0 5 : 0	m	108	
<b><u>MOVEMENT JOINTS ETC.</u></b>				
<b><u>Expansion joints with Jointex between vertical &amp; horizontal concrete and brick surfaces.</u></b>				
9	20mm Isolation joints not exceeding 300mm high or wide. 1 : 38      2 : 0      3 : 0      4 : 0 5 : 0	m	38	
<b><u>PRECAST CONCRETE</u></b>				
<b><u>Prestressed fabricated concrete lintels including necessary temporary supports</u></b>				
10	110 x 75mm Lintels in lengths not exceeding 3m 1 : 163      2 : 101      3 : 11      4 : 0 5 : 0	m	275	
<b><u>FACE BRICKWORK</u></b>				
<b><u>Facebricks prime cost of R 7000,00 per thousand excluding VAT delivered to site, with nominal strength of 20-30MPa manufactured in accordance with SANS 227, bedded and jointed in Class II mortar and pointed with square recessed horizontal and vertical joints.</u></b>				
11	Extra over brickwork for face brickwork 1 : 0      2 : 455      3 : 84      4 : 0 5 : 0	m2	539	
		Carried Forward		R
Section No. 2 Bill No. 7 Masonry <b>COEGA</b>				

<b>Brought Forward</b>				R
12	Extra over brickwork for brick-on-edge header course band. 1 : 38      2 : 130      3 : 24      4 : 0 5 : 0	m	192	
13	Extra over brickwork for brick-on-edge header course lintel. 1 : 0      2 : 162      3 : 3      4 : 0 5 : 0	m	165	
14	230mm Wide sill set sloping and slightly projecting 1 : 0      2 : 188      3 : 0      4 : 0 5 : 0	m	188	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 7				
Masonry				
<b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 8</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p><b><u>Waterproofing</u></b></p> <p>Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc, with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 8 Waterproofing <b>COEGA</b></p>			
			R	

**Brought Forward**

**DAMP-PROOFING OF WALLS AND FLOORS**

Waterproofing to roofs shall be laid to even falls to outlets, etc., with necessary ridges, hips and valleys

Descriptions of sheet or membrane waterproofing shall be deemed to include labour to turn-ups and turn-downs

**Guarantee**

Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc, with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.

**Joint sealants**

The colour of joint sealants in brickwork or concrete shall match the colour of the adjacent brick or concrete finish

R

**Carried Forward**

Section No. 2  
Bill No. 8  
Waterproofing  
**COEGA**

R

Brought Forward				R
<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
<b><u>One layer of 375 micron "Gundle Plastall Brikgrip DPC" or equivalent embossed damp proof course</u></b>				
1	Under half brick walls	m2	15	
	1 : 0      2 : 14      3 : 1      4 : 0			
	5 : 0			
2	Under one brick walls	m2	48	
	1 : 0      2 : 36      3 : 12      4 : 0			
	5 : 0			
3	Under window sills (dpc to be tucked under frames, turned up at the end and folded back to stick)	m2	65	
	1 : 0      2 : 65      3 : 0      4 : 0			
	5 : 0			
<b><u>One layer of 250 micron "Gunplas USB Green" or equivalent waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape".</u></b>				
4	Under surface beds	m2	1 500	
	1 : 1041      2 : 424      3 : 35      4 : 0			
	5 : 0			
5	Under aprons	m2	428	
	1 : 274      2 : 130      3 : 24      4 : 0			
	5 : 0			
<b><u>Two layers of 250 micron "Gundle Plastall GunplasUSB Green" or equivalent waterproof sheeting sealed at laps with Gunplas Pressure Sensitive tape</u></b>				
6	Under built up slabs	m2	17	
	1 : 17      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>WATERPROOFING TO ROOFS, RETAINING WALLS, ETC.</u></b>				
Carried Forward				R
Section No. 2 Bill No. 8 Waterproofing <b>COEGA</b>				

Brought Forward				R
<p><b><u>Design (Propose), supply and install Torch on waterproofing system. All surfaces to be clean dry, sound and free of oils and laitance. Apply one layer abe.® Unigum MS dual reinforced mineral surface waterproofing membrane or equivalent, fully bonded by means of "torch on fusion" to concrete, screed and brickwork surfaces where applicable, with 100mm side laps and 150mm end laps, all in accordance with manufacturer's 'Technical Specifications and Applications Manual'</u></b></p>				
<u>Roofs</u>				
7	<p>On roofs to falls at minimum 1:100</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 35      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	m2	35	
8	<p>Extra over additional membrane at 100mm diameter outlet</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 2      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	2	
Carried Forward				R
<p>Section No. 2                  Bill No. 8                  Waterproofing  <b>COEGA</b></p>				

Brought Forward				R
<b><u>One layer Geotextile: Bidim A3 or equally approved product with 100mm laps on waterproofing</u></b>				
<u>Roofs</u>				
9	On roofs to falls at minimum 1:100  1 : 0      2 : 0      3 : 35      4 : 0 5 : 0	m2	35	
10	Extra over membrane against a 100mm diameter outlet  1 : 0      2 : 0      3 : 2      4 : 0 5 : 0	No	2	
<b><u>25mm crushed stone ballast 50mm thick</u></b>				
<u>Roofs</u>				
11	On roofs to falls at minimum 1:100  1 : 0      2 : 0      3 : 35      4 : 0 5 : 0	m2	35	
<b><u>Isoboard® high density 32-36kg/m³ rigid extruded polystyrene 100% or equivalent closed cell insulation boarding 80mm thick x 600mm wide with tongue and groove joints laid tightly butted on waterproofing membrane, secured under 20mm nominal gravel</u></b>				
12	On flat roofs  1 : 0      2 : 0      3 : 35      4 : 0 5 : 0	m2	35	
<b><u>BOND BREAKERS, ETC.</u></b>				
<b><u>One layer of 250 micron "Gundle Plastall Gunplas USB Green" waterproof sheeting sealed at laps with Gunplas Pressure Sensitive tape</u></b>				
13	Under plinths  1 : 17      2 : 0      3 : 0      4 : 0 5 : 0	m2	17	
<b><u>WATERPROOFING TO SHOWERS</u></b>				
Carried Forward				R
Section No. 2 Bill No. 8 Waterproofing <b>COEGA</b>				

Brought Forward					R
<p><b><u>Design, supply and install "Cementitious flexible waterproofing slurry" lanko Hydroflex embedded or equally approved, in a polyester cloth where necessary</u></b></p>					
14	On floors around slop hoppers		m2	5	
	1 : 5      2 : 0      3 : 0      4 : 0				
	5 : 0				
15	On floors around showers		m2	10	
	1 : 1      2 : 9      3 : 0      4 : 0				
	5 : 0				
16	On shower walls		m2	42	
	1 : 6      2 : 36      3 : 0      4 : 0				
	5 : 0				
<p><b><u>PROTECTION BOARDS</u></b></p>					
17	10mm Thick softboard protection board placed vertically between waterproofing (elsewhere) and backfilling.		m2	35	
	1 : 0      2 : 0      3 : 35      4 : 0				
	5 : 0				
<p><b><u>JOINT SEALANTS ETC.</u></b></p>					
<p><b><u>"Polyurethane" Sealant UV protected to manufacturers specification.</u></b></p>					
18	15mm "Polyurethane" Sealant in wall joints between door frame, doors (Trumod finish) and plastered surfaces (painted) where applicable.		m	934	
	1 : 554      2 : 283      3 : 97      4 : 0				
	5 : 0				
19	15mm "Polyurethane" Sealant in wall joints between aluminium window frame and actual windows in TruMod system and plastered surfaces (painted) where applicable.		m	845	
	1 : 566      2 : 234      3 : 44      4 : 0				
	5 : 0				
20	15mm "Polyurethane" Sealant around sanitary fittings (painted).		m	131	
	1 : 79      2 : 47      3 : 4      4 : 0				
	5 : 0				
Carried Forward					R
<p>Section No. 2                  Bill No. 8                  Waterproofing  <b>COEGA</b></p>					

<b>Brought Forward</b>					R
21	15mm "Polyurethane" Sealant on ceiling W- trim shadowlines. 1 : 879      2 : 416      3 : 0      4 : 0 5 : 0	m	1 295		
22	20mm "Polyurethane" Sealant in horizontal wall joints (painted). 1 : 0      2 : 546      3 : 70      4 : 0 5 : 0	m	616		
23	20mm "Polyurethane" Sealant in vertical wall joints (painted). 1 : 77      2 : 0      3 : 0      4 : 0 5 : 0	m	77		
24	20mm "Polyurethane" Sealant on top of skirtings (painted). 1 : 0      2 : 416      3 : 46      4 : 0 5 : 0	m	462		
<b><u>Waterproofing membrane seal including primer, etc.</u></b>					
25	Supply & Install 2 layers of Waterproofing membrane seal x 230mm wide in expansion joints between brickwork and concrete soffits including raking out expansion joint filler as necessary 1 : 0      2 : 0      3 : 24      4 : 0 5 : 0	m	24		
<b><u>FIRE SEALING</u></b>					
The following are to be design & supply items and approved by the fire engineer					
<b><u>Fire seal to wall joints</u></b>					
26	15 x 20mm 2 Hour Fire Seal around door frames and Trumod wall system including raking out expansion joint filler as necessary and applying approved priming coats 1 : 23      2 : 0      3 : 0      4 : 0 5 : 0	m	23		
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2 Bill No. 8 Waterproofing <b>COEGA</b>					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 9</u></b></p> <p><b><u>ROOF COVERINGS, ETC.</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p><b><u>Guarantee</u></b></p> <p>A written and approved five-year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions. Manufacturer: Global Roofing Solutions Tel. (011) 898-2900</p> <p><b><u>Cleaning of finishes</u></b></p> <p>All finishes shall be thoroughly cleaned down on completion. No additional costs for cleaning will be entertained</p> <p><b><u>Cutting &amp; wastage</u></b></p> <p>All straight and raking cutting and waste must be allowed for in the rates</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 9 Roof Covering <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>PROFILE SHEETING AND ACCESSORIES</u></b></p> <p><b><u>Sheeting:</u></b></p> <p>0,80mm Approved Z275 IBR profile galvanised steel roof sheeting with standard colour one side in single lengths and accessories fixed to steel purlins or battens at 750mm centres: grey finish topcoat and grey backing coat roof sheeting, fixed to steel intermediate purlins at max 2500mm centres and eaves and ridge purlins at max 2100mm using manufacturer’s clips fixed according to manufacturer, all following the manufacturer’s specifications with guarantee. Colour: Graphite.</p> <ul style="list-style-type: none"> <li>• The male rib shall have spurs to ensure a positive double interlocking action at side-Laps.</li> <li>• Each pan shall incorporate transverse stiffener ribs.</li> <li>• Vandal proof pv clamp for solar panels to be approved manufacturer and not void roof sheeting guarantee.</li> <li>• Manufacturer to be certified as complying with ISO 9001:2015 quality management system.</li> <li>• Fasteners must be selected to match the life expectancy of the roofing and cladding material. The coating class for fasteners, complying with SANS 1273, should be used in conjunction with all roofing and cladding material.</li> <li>• All flashings to match the sheeting.</li> </ul> <p><b><u>Flashings:</u></b></p> <p>Flashings shall match the roof sheeting</p> <p><b><u>Erection:</u></b></p> <p>Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 9                  Roof Covering  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Safety:</u></b></p> <p>The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.</p> <p><b><u>Handling and storing:</u></b></p> <p>The contractor shall ensure that all materials used on site for cladding, etc. are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 9          Roof Covering  <b>COEGA</b></p>		R	

		Brought Forward		R
<b>ROOFING</b>				
<b><u>0,80mm Approved Z275 IBR profile galvanised steel roof sheeting with standard colour one side in single lengths and accessories fixed to steel purlins or battens at 750mm centres: using manufacturer's clips fixed according to manufacturer, all following the manufacturer's specifications with guarantee. Colour: Graphite</u></b>				
1	Roof covering with pitch not exceeding 25 degrees 1 : 0      2 : 440      3 : 0      4 : 0 5 : 0	m2	440	
<b><u>FLASHINGS, ETC.</u></b>				
<b><u>Flashings to match roof sheeting, fixed in strict accordance with the manufacturer's instructions, including any necessary sealer strips on overlaps, closure pieces, etc</u></b>				
2	Ridge capping 550mm girth bent three times and notched to suit roof 1 : 0      2 : 36      3 : 0      4 : 0 5 : 0	m	36	
<b><u>INSULATION</u></b>				
<b><u>Sisalation FR 430 laid to manufacturer's specification and SANS 10400 standard:</u></b>				
3	Insulation laid taut over steel purlins (at approximately 750mm centres) and fixed concurrent with roof covering including white PVC coated straining wires at 383mm centres. 1 : 0      2 : 440      3 : 0      4 : 0 5 : 0	m2	440	
<b><u>TESTS</u></b>				
<b><u>Flood testing</u></b>				
4	Perform flood or leak testing for the entire roof & gutters, fix leaks (if any) and re-do the flood test ensuring no leaks at handover. 1 : 0      2 : 1      3 : 0      4 : 0 5 : 0	No	1	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2 Bill No. 9 Roof Covering <b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 10</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Particle board</u></b></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</p> <p><b><u>Joinery</u></b></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 10 Carpentry &amp; Joinery <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Fixing:</u></b></p> <p>Items described as nailed or plugged shall be deemed to be fixed to brickwork or concrete. Where the method of fixing is not described, descriptions shall be deemed to include fixing of timber to timber in a method approved by the architect. Descriptions of hardwood joinery shall be deemed to include pelleting of holes for bolts</p> <p><b><u>Doors</u></b></p> <p>Flush doors with rebated meeting stiles to have hard wood edge strips to meeting stiles not less than 19mm thick</p> <p>Hardboard and veneer coverings to doors will be suitable to receive paint or varnish</p> <p>All doors to be equivalent to samples to be submitted to the architect for approval</p>			R	
---	--	--	---	--

<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 10          Carpentry &amp; Joinery  <b>COEGA</b></p>			R	
--	--	--	---	--

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>PRE-FABRICATED TIMBER ROOF TRUSSES AND ASSOCIATED BRACING</u></b></p> <p>NOTE:</p> <p>The following is applicable in respect of roof trusses and bracing:</p> <p>Plate nailed timber trusses shall be of approved design and manufacture and constructed with softwood structural timber by a truss Fabricator holding a current Certificate of Competence awarded by the Institute of Timber Construction.</p> <p>Each roof truss shall have all its members accurately cut and closely butted together and rigidly fixed by CSIR or acceptable approved patented galvanized metal spiked connectors, precision pressed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.</p> <p>The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Structural Engineer in accordance with SABS 0160 and SABS 0163, who shall, after erection, provide a certificate confirming that the design, manufacture, transportation, erection and bracing has been carried out in accordance with this specification.</p> <p>The design shall include for all live loads, wind loads and dead loads imposed by roof covering, purlins, ceilings, etc.</p> <p>Fully detailed shop drawings of all trusses, etc., indicating sizes, bracing, loading, etc., shall be submitted to the Representative/Agent for approval prior to fabrication.</p> <p>Erection shall be carried out in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber Roof Trusses" published by the Institute for Timber Construction and the Council for Scientific and Industrial Research or as detailed by the designer.</p> <p>Prices for roof trusses and bracing shall include design and preparation of shop drawings.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 10          Carpentry &amp; Joinery  <b>COEGA</b></p>		R	

<b>Brought Forward</b>		R	
<p><b><u>ROOFS, ETC</u></b></p>			
<p><b><u>Plate nailed timber roof truss construction</u></b></p>			
<p>The following is applicable in respect of roof trusses (only as a guide): Trusses are at maximum 1 200m centres. Roof covering is "Klip-Lok/ Chromadeck" roof sheeting on 50 x 75mm purlins at 1 200mm maximum centres. All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245. Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish. All joints to be close fitted butt joints. Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</p>			
<p><b><u>Sawn softwood pre-fabricated plate nailed timber in roof construction to roofs complete with 38 x 114mm wall plates treated with carbolinium before fixing, trusses, jack rafters, additional supports for jack trusses, etc., all necessary permanent bracing, metal hangers, cleats, bolts, etc., purlins as described and one gang plank per roof layout over entire building length between fire walls (Roof covering and fascias elsewhere)</u></b></p>			
<p>1 Staff Accommodation: Building truss size approximately 440m2m overall with approved overhang. Trusses to be of 152 x 38mm (Size to be determined by the contractor, provided size is only a guide) SA pine grade 6 prefabricated timber (design &amp; installation with COC provided) including design, manufacture, supply &amp; install on site, purlins, cleats, connectors, hangers, storm clips on the bottom 2 rows on both eaves and roof support for the solar geyser</p>			
<p>1 : 0      2 : 1      3 : 0      4 : 0 5 : 0</p>	No	1	
<p><b><u>DOORS, ETC.</u></b></p>			
<b>Carried Forward</b>		R	
<p>Section No. 2 Bill No. 10 Carpentry &amp; Joinery <b>COEGA</b></p>			

Brought Forward				R
<p><b><u>40mm Thick Solid Timber Flush Door with concealed hardwood edges all round, with 3,2mm masonite covering to both sides hung to aluminium frame.</u></b></p>				
2	<p>40mm Door 0,813 x 2,134m high</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 2      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	2	
3	<p>40mm Door 0,813 x 2,134m high with and including opening for a 0,300 x 0,400m high ventilation louvre (louvre measured elsewhere)</p> <p style="margin-left: 40px;">1 : 1      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	1	
4	<p>40mm Door 0,964 x 2,125m high</p> <p style="margin-left: 40px;">1 : 0      2 : 4      3 : 3      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	7	
<p><b><u>40mm Thick Hollow Core Timber Flush Door undercut by 100mm, with concealed hardwood edges all round, with 3,2mm masonite covering to both sides hung to aluminium frame.</u></b></p>				
5	<p>40mm Door 0,877 x 2,125m high (undercut by 100mm)</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 1      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	1	
6	<p>40mm Door 0,762 x 2,134m high (undercut by 100mm)</p> <p style="margin-left: 40px;">1 : 4      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	4	
<p><b><u>FIRE DOORS, ETC.</u></b></p>				
<p><b><u>Class B, Low formaldehyde fire door, with and including "en-suite" cylinder lockset and with pressed steel frame suitable for one brick walls (All fire rated).</u></b></p>				
7	<p>Double Door 1,510 x 2,110m high.</p> <p style="margin-left: 40px;">1 : 2      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	2	
<p><b>Carried Forward to Summary of Section No. 2</b></p>				R
<p>Section No. 2                  Bill No. 10                  Carpentry &amp; Joinery  <b>COEGA</b></p>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 11</u></b></p> <p><b><u>CEILINGS &amp; BULKHEADS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Proprietary suspended ceilings</u></b></p> <p>Hangers, suspension grids, "lay-in" panels, etc. are to be in accordance with the manufacturers' recommendations</p> <p>Electrical light fittings, diffusers, panels, etc. are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 11 Ceilings <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Flush plastered Rhinoboard suspended ceilings</u></b></p> <p>Ceilings shall comprise 9.5mm &amp;/or 12mm rhinoboard plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><b><u>Finish</u></b></p> <p>Unless otherwise stated, all surfaces shall be skimmed and covered with Gyproc Rhinolite Multi-purpose (Phosphogypsum locally manufactured)</p> <p><b><u>Fixing</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p><b><u>Ceilings</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Bulkheads</u></b></p> <p>Bulkheads are those areas of the ceilings which occur at a level or plane differing from the general ceiling level or plane. Their function is to conceal services, or merely to create an architectural feature.</p> <p>Bulkheads will only be measured as such when they conform with the above description and when the horizontal or vertical dimensions do not exceed 2 000mm. Where these dimensions exceed 2 000mm the horizontal or vertical ceilings are included in the general ceiling measurements.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 11          Ceilings  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><b><u>Openings</u></b></p> <p>Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc. are to include for any necessary additional support, trimming around, etc. and are to be included on the rates for ceilings</p> <p><b><u>NOTES</u></b></p> <p>Tenderers are to allow for special scaffolding in their rates as no additional claim will be entertained in this regard</p> <p>Drawings showing the services in the ceiling voids are available for inspection by appointment at the offices of the various consultants</p> <p>The contractor is to ensure that no tees and cross tees are suspended from any services such as electrical cable trays, etc.</p> <p>The contractor must supply the architect with suspended rods for approval before installation</p> <p>Prices shall include for all holes, notching, etc.</p> <p>All tenderers must make allowance within the rates for any sub-frames that might be required in the design, as no additional claims in this regard will be entertained</p> <hr/>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 11 Ceilings <b>COEGA</b></p>		R	

Brought Forward				R
<b><u>SUSPENDED CEILINGS</u></b>				
<b><u>6,4mm Gypsum ceiling board, in varying lengths including expansion joints every 5 meters, using DONN products joint ref RD EJ.30. All edges of bulkheads to have DONN edge bonding, fixed by means of the 'screw-up' system to and including GMS drywall studs of DONN T37S grid system. Spaced and framed to prevent all deflection or sagging, all framed and screwed up, suspended from roof steelwork or shot bolted to concrete or brickwork including necessary joists suspended between trusses where vertical supports cannot otherwise be suspended from steel purlins, with all rivet holes neatly patched up. Apply Fibatape to all joints and scrimmed and skimmed and sanded down to leave a perfectly flush and level bulkhead ready for decoration</u></b>				
1	Ceilings suspend exceeding 1m and not exceeding 2m below concrete soffits & steel trusses	m2	452	
	1 : 0      2 : 424      3 : 28      4 : 0 5 : 0			
2	Extra over ceilings for 600mm x 600mm trapdoor	No	3	
	1 : 0      2 : 2      3 : 1      4 : 0 5 : 0			
3	Extra over ceiling for opening for 165mm diameter downlighter	No	6	
	1 : 0      2 : 4      3 : 2      4 : 0 5 : 0			
<b>Carried Forward</b>				R
Section No. 2 Bill No. 11 Ceilings <b>COEGA</b>				

Brought Forward				R
<p><b><u>Thermoceil ripple white vinyl clad calcium silicate ceiling tiles size 1195 x 595 x 6mm thick laid on and including CKMT38 x24mm/T38 White powder coated main tees and CKMT38x24mm cross tees, hold-down clips, wedges, etc. with galvanised 4mm diameter suspension rod and hook with spring clip and Suspension plate at centres not exceeding 1200mm in both directions. Suspension rods are to be attached with 25x25x25x1,6mm angle cleats shot nailed to concrete or bolted to steel or screwed to timber purlins.</u></b></p>				
4	Ceilings suspended exceeding 1m not exceeding 2m below concrete soffits	m2	1 041	
	1 : 1041      2 : 0      3 : 0      4 : 0 5 : 0			
5	Extra over ceiling for opening for 165mm diameter downlighter	No	10	
	1 : 10      2 : 0      3 : 0      4 : 0 5 : 0			
<p><b><u>12.5mm Moisture resistant flush plasterboard ceiling fixed on hot dipped galvanised steel suspension fittings, screw-up tee grid including 25x25mm hangers, 25mm rhino board sharp point screws @ 150mm centres, etc., with self adhesive glass fire tape &amp; quick setting joint filler and the whole finished with 3mm to 6mm lightweight retarded semi hydrate gypsum "Rhinolite" plaster trowelled to a smooth polished surface</u></b></p>				
6	Ceilings suspend not exceeding 1m below timber trusses	m2	23	
	1 : 0      2 : 21      3 : 1      4 : 0 5 : 0			
Carried Forward				R
<p>Section No. 2 Bill No. 11 Ceilings <b>COEGA</b></p>				

		Brought Forward		R
	<p><b><u>OWAconstruct or equivalent shadow line W-Trim, plugged and screwed at centres not exceeding 200mm</u></b></p>			
7	<p>W-Trim Shadow line</p> <p>1 : 879    2 : 416    3 : 0    4 : 0</p> <p>5 : 0</p>	m	1 295	
	<p><b><u>BULKHEADS</u></b></p> <p><b><u>12.5mm Flush plasterboard bulkhead fixed on hot dipped galvanised steel suspension fittings, screw-up tee grid including 25x25mm hangers, 25mm rhino board sharp point screws @ 150mm centres, etc., with self adhesive glass fire tape &amp; quick setting joint filler and the whole finished with 3mm to 6mm lightweight retarded semi hydrate gypsum "Rhinolite" plaster trowelled to a smooth polished surface</u></b></p>			
8	<p>Bulkhead 500mm high x 1 600mm wide</p> <p>1 : 25    2 : 0    3 : 0    4 : 0</p> <p>5 : 0</p>	m	25	
9	<p>Ditto the above for a vertical closure piece (1 600mm wide x 500mm high)</p> <p>1 : 5    2 : 0    3 : 0    4 : 0</p> <p>5 : 0</p>	No	5	
10	<p>Bulkhead 600mm high x 1 600mm wide</p> <p>1 : 30    2 : 0    3 : 0    4 : 0</p> <p>5 : 0</p>	m	30	
11	<p>Ditto the above for a vertical closure piece (1 600mm wide x 600mm high)</p> <p>1 : 5    2 : 0    3 : 0    4 : 0</p> <p>5 : 0</p>	No	5	
	<p><b><u>INSULATION</u></b></p>			
12	<p>50mm Fibreglass insulation closely fitted and laid on top of brandering between roof timbers, ceilings, etc., all as per manufacturers instructions</p> <p>1 : 1041    2 : 424    3 : 28    4 : 0</p> <p>5 : 0</p>	m2	1 493	
	<p><b>Carried Forward to Summary of Section No. 2</b></p>			R
	<p>Section No. 2                  Bill No. 11                  Ceilings  <b>COEGA</b></p>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 12</u></b></p> <p><b><u>FLOOR COVERINGS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p><b><u>Cleaning of finishes</u></b></p> <p>All finishes shall be thoroughly cleaned down on completion. No additional costs for cleaning will be entertained</p> <p><b><u>Cutting &amp; wastage</u></b></p> <p>All straight, circular and raking cutting and waste must be allowed for in the rates</p> <p><b><u>Bonding liquid and Keycoats</u></b></p> <p>All bonding liquids and keycoats must be allowed for in the rates</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 12 Floor Coverings, etc. <b>COEGA</b></p>			<p style="text-align: right;">R</p>

**Brought Forward**

R

**Setting out**

Care shall be exercised in setting out the work, the preparation of templets and the checking of the detail drawings. All measurements shall be taken on the site where necessary and the full size setting out of each course shall be done at the yard so as to ensure proper fitting

Before putting any work in hand the contractor is to submit to the architect for his approval details of the manner in which he proposes to set out the slabs and joints in all wall facings, pavings, sills, treads, etc together with samples of grain or pattern matching

**Carried Forward**

R

Section No. 2  
Bill No. 12  
Floor Coverings, etc.  
**COEGA**

Brought Forward				R
<b><u>VINYL</u></b>				
<b><u>2,5mm Thick "Superflex" vinyl sheet flooring manufactured in accordance with SANS 786 laid with approved adhesive on previously prepared subfloors. Joints to be butted, grooved and heat welded ensuring that the welding rod bonds to more than 70% of the sheet thickness:</u></b>				
<b><u>PC Allowance of R300.00 per m2 is to be allowed for, excluding VAT, for the site delivered vinyl material price only, Tenderers are to include the price as per the PC amount stated and add their own labour, vinyl glue, grout, mark up, etc.</u></b>				
1	On Floors and landings	m2	1 017	
	1 : 1017      2 : 0      3 : 0      4 : 0			
	5 : 0			
2	150mm High coved vinyl skirting	m	510	
	1 : 510      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>SCREEDS</u></b>				
<b><u>Self Levelling Screeds</u></b>				
3	ITE F30 or equivalent self levelling screed in strict accordance with manufacturers specifications at an average thickness of 3mm to 4mm.	m2	1 017	
	1 : 1017      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>MOISTURE BARRIER</u></b>				
<b><u>Epoxy moisture barrier rolled in two coats</u></b>				
4	On floors	m2	1 017	
	1 : 1017      2 : 0      3 : 0      4 : 0			
	5 : 0			
Carried Forward				R
Section No. 2 Bill No. 12 Floor Coverings, etc. <b>COEGA</b>				

Brought Forward				R
<b><u>POLISH, SEALERS, ETC.</u></b>				
5	Strip newly laid vinyl floors (after 72 hours) using FloorworX Stripper or equivalent, scrub using a diluted solution of FloorworX or equivalent, rinse and then seal with 3 coats of FloorworX (or equivalent) Silk Matt or Gloss Sealer	m2	1 017	
	1 : 1017      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 12				
Floor Coverings, etc.				
<b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 13</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Finishes to ironmongery</u></b></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered : CH Chromium plated : SC Satin chromium plated : SE Silver enamelled : GE Grey enamelled : AS Anodised silver : AB Anodised bronze : AG Anodised gold : ABL Anodised black : PB Polished brass : PL Polished and lacquered : PT Epoxy coated.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 13 Ironmongery <b>COEGA</b></p>			R

Brought Forward				R
<b><u>HINGES, BOLTS, DOOR STOPS, ETC.</u></b>				
<b><u>Approved hinges, bolts, etc.</u></b>				
1	1 pair of stainless steel two ball bearing butt hinge 1 : 6      2 : 0      3 : 3      4 : 0 5 : 0	No	9	
2	1.5 pair of stainless steel two ball bearing butt hinge 1 : 12      2 : 0      3 : 0      4 : 0 5 : 0	No	12	
3	Stainless steel indicator door bolt. 1 : 4      2 : 0      3 : 1      4 : 0 5 : 0	No	5	
4	Stainless steel door stop. 1 : 76      2 : 46      3 : 6      4 : 0 5 : 0	No	128	
5	Hat and coat hook 1 : 10      2 : 12      3 : 1      4 : 0 5 : 0	No	23	
<b><u>LOCKS, HANDLES, ETC.</u></b>				
<b><u>Approved locks:</u></b>				
6	Handle on 150 x 45mm pressed backplate with anodised silver finish including euro profile cylinder upright lock case and 66mm euro profile double cylinder or equivalent 1 : 8      2 : 0      3 : 2      4 : 0 5 : 0	No	10	
7	Aluminium helping hand disabled facility indicator bolt with anodised silver finish. Stainless steel bolt-through pull handle size 152 x 19mm inside & outside leaves. 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 13 Ironmongery <b>COEGA</b>				

		<b>Brought Forward</b>		R
8	<p>Waterbok handle on 150 x 45mm pressed backplate with anodised silver finish euro profile cylinder lock set or equally approved with satin chrome handle finish including powder coated euro profile cylinder lock &amp; 2 x 28np euro profile cylinder with zinc back plate</p> <p style="margin-left: 40px;">1 : 4      2 : 0      3 : 1      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p> <p><b><u>PUSH PLATES AND KICK PLATES</u></b></p> <p><b><u>1.2mm Thick Grade 304 stainless steel plates countersunk screwed along edges at not exceeding 200mm centres.</u></b></p>	No	5	
9	<p>2x152x178mm High push plate fitted on inside of leaf only</p> <p style="margin-left: 40px;">1 : 4      2 : 0      3 : 1      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	5	
10	<p>2x152x750mm High kick plate fitted on bottom of leaf on both sides of the door</p> <p style="margin-left: 40px;">1 : 4      2 : 0      3 : 1      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p> <p><b><u>DOOR CLOSERS</u></b></p> <p><b><u>Approved door closers:</u></b></p>	No	5	
11	<p>Overhead door closer with regular arm and necessary mounting brackets, etc.</p> <p style="margin-left: 40px;">1 : 19      2 : 6      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p> <p><b><u>LETTERS, NAMEPLATES, ETC.</u></b></p> <p><b><u>Clear perspex name plate reverse engraved and enamelled in lettering 25mm high to suit, twice countersunk holed for and tap screwed to steel door frame with chromium plated dome-headed self tapping screws</u></b></p>	No	25	
12	<p>3mm Thick x 32mm wide plate with letters "KITCHEN"</p> <p style="margin-left: 40px;">1 : 1      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	1	
		<b>Carried Forward</b>		R
<p>Section No. 2                      Bill No. 13                      Ironmongery  <b>COEGA</b></p>				

<b>Brought Forward</b>					R
13	3mm Thick x 32mm wide plate with letters "PANTRY" 1:1      2:0      3:0      4:0 5:0	No	1		
14	3mm Thick x 32mm wide plate with letters "STAFF ROOM" 1:1      2:0      3:0      4:0 5:0	No	1		
15	3mm Thick x 32mm wide plate with letters "WAITING ROOM" 1:1      2:0      3:0      4:0 5:0	No	1		
16	3mm Thick x 32mm wide plate with letters "PRE-DELIVERY ROOM" 1:1      2:0      3:0      4:0 5:0	No	1		
17	3mm Thick x 32mm wide plate with letters "DELIVERY ROOM" 1:1      2:0      3:0      4:0 5:0	No	1		
18	3mm Thick x 32mm wide plate with letters "SLUICE ROOM" 1:1      2:0      3:0      4:0 5:0	No	1		
19	3mm Thick x 32mm wide plate with letters "MANAGER'S OFFICE" 1:1      2:0      3:0      4:0 5:0	No	1		
20	3mm Thick x 32mm wide plate with letters "RECORDS ROOM" 1:1      2:0      3:0      4:0 5:0	No	1		
21	3mm Thick x 32mm wide plate with letters "MEDICINE STORE" 1:1      2:0      3:0      4:0 5:0	No	1		
<b>Carried Forward</b>					R
Section No. 2 Bill No. 13 Ironmongery <b>COEGA</b>					

Brought Forward					R
22	3mm Thick x 32mm wide plate with letters "TREATMENT ROOM" 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
23	3mm Thick x 32mm wide plate with letters "TB COUNSELLING ROOM" 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
24	3mm Thick x 32mm wide plate with letters "CONSULTING ROOM 1/2/3" 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
25	3mm Thick x 32mm wide plate with letters "LAUNDRY" 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
26	3mm Thick x 32mm wide plate with letters "GARDEN STORE" 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
27	3mm Thick x 32mm wide plate with letters "DOMESTIC WASTE" 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
28	3mm Thick x 32mm wide plate with letters "MEDICAL WASTE" 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
<b><u>Approved letters, name plates, etc:</u></b>					
29	Engraved grade 304 stainless steel information sign, size 300 x 62 x 1,2mm with black (bold) 100mm (size) printed lettering (arial narrow) printed on including fixing to top of aluminium door frames (tenderer is to including the lettering to fit on to the size maximum 300mm long. 1 : 6      2 : 0      3 : 3      4 : 0 5 : 0	No	9		
Carried Forward					R
Section No. 2 Bill No. 13 Ironmongery <b>COEGA</b>					

Brought Forward					R
<b><u>SUNDRIES</u></b>					
<b><u>Manufactured by approved manufacturer:</u></b>					
30	DHC-SS-031B or equivalent stainless steel hat and coat hook with rubber buffer.	No	5		
	1 : 4      2 : 0      3 : 1      4 : 0				
	5 : 0				
<b><u>BATHROOM ACCESSORIES</u></b>					
<b><u>By approved manufacturer:</u></b>					
31	"Kimberly Clark" or equivalent White aquarius waste bin (code 6993 or equivalent) size 680 x 380 x 280mm deep	No	17		
	1 : 8      2 : 8      3 : 1      4 : 0				
	5 : 0				
32	Powder coated steel cradle soap dispenser with elbow action, plugged and screwed to the wall with stainless steel screws.	No	17		
	1 : 8      2 : 8      3 : 1      4 : 0				
	5 : 0				
33	Stainless steel, wall-mounted, slim line sanitary bin, 600(h) x 175(d) x 285(w) mm with a 20 l capacity.	No	9		
	1 : 9      2 : 0      3 : 0      4 : 0				
	5 : 0				
34	Powder coated 445mm diameter ringbin plugged and screwed to the wall with stainless steel screws.	No	17		
	1 : 8      2 : 8      3 : 1      4 : 0				
	5 : 0				
35	"Kimberly Clark" or equivalent Aquarius hand towel dispenser (code 6959 or equivalent) plugged and screwed to wall with stainless steel screws.	No	9		
	1 : 9      2 : 0      3 : 0      4 : 0				
	5 : 0				
36	"Kimberly Clark" or equivalent Aquarius toilet tissue dispenser (code 6992 or equivalent) plugged and screwed to wall with stainless steel screws.	No	24		
	1 : 11      2 : 12      3 : 1      4 : 0				
	5 : 0				
Carried Forward					R
Section No. 2					
Bill No. 13					
Ironmongery					
<b>COEGA</b>					

<b>Brought Forward</b>					R
37	8l Wall mounted sharps container. code: fae158 or equivalent	No	9		
	1 : 9      2 : 0      3 : 0      4 : 0 5 : 0				
38	432 x 754mm Rectangular urinal partition in tempered sanitised glass - colour anthracite.	No	3		
	1 : 3      2 : 0      3 : 0      4 : 0 5 : 0				
39	"Kimberley Clark" or equivalent Professional Scott continuous air freshener dispenser code (92620 or equivalent) with replaceable aerosol container, plugged.	No	9		
	1 : 9      2 : 0      3 : 0      4 : 0 5 : 0				
40	"Steibel Eltron" or equivalent Charcoal grey metallic turbo charged hand dryer (Model HTT5AM) or equivalent	No	9		
	1 : 9      2 : 0      3 : 0      4 : 0 5 : 0				
41	"Hygiene Direct" or equivalent White femcare disposal bin size 512 x 345 x 182mm deep	No	9		
	1 : 9      2 : 0      3 : 0      4 : 0 5 : 0				
<b><u>Grab Rails</u></b>					
42	Paraplegic Rails dog leg grab rail with 3 supports (code: GRDG03B) or similar approved with brushed grade 304 stainless steel finish, overall size 750 x 750mm, plugged and screwed to wall with stainless steel screws.	No	1		
	1 : 1      2 : 0      3 : 0      4 : 0 5 : 0				
43	Paraplegic Rails cistern grab rail (code: GRCS01B) or similar approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.	No	1		
	1 : 1      2 : 0      3 : 0      4 : 0 5 : 0				
<b>Carried Forward</b>					R
Section No. 2 Bill No. 13 Ironmongery <b>COEGA</b>					

Brought Forward				R
44	Paraplegic Rails flush valve grab rail (code: GRFV01B) or similar approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws. 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2 Bill No. 13 Ironmongery <b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 14</u></b></p> <p><b><u>METALWORK (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Descriptions:</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers.</p> <p>Metalwork described as holed for bolt(s) shall be deemed to exclude the bolts unless otherwise described.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 14 Metalwork <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p>All surfaces of steelwork must be given one coat of approved zinc chromate primer before leaving the works of the manufacturer</p> <p><b><u>Aluminium Installation</u></b></p> <p><b>Rates should include for <u>design, supply and installation</u></b>, the detail of which must be submitted with this tender to be approved by the Architect.</p> <p>All tenderers must take note that all aluminium doors and shopfronts and glass must comply to following standards;</p> <ul style="list-style-type: none"> <li>• AAAMSA</li> <li>• SANS 10400</li> <li>• SANS 110137:2011(Ed 4.00)</li> <li>• SAMS 10160</li> <li>• SANS 1263-1:2013 (Ed 3.02)</li> <li>• NBR part "N" glazing</li> </ul> <p>All ironmongery to be approved window/door gear as per Architects specifications where applicable. where not applicable, tenderers are to allow for standard ironmongery</p> <p>Tenderers must take note that the following items are only for tender purposes and will be used as basis for the whole project and therefore the quantity &amp; size might change. No claims in this regard will be entertained.</p> <p>Shop drawings should be submitted to and approved by the Architect prior to manufacturing</p> <p>Final measurements must be taken on site</p> <p>Site dimensions are to be checked by the contractor and confirmed before the start of manufacture.</p> <p>The Tenderer should include for all plant and equipment necessary for placing in position, horizontal carting over roof and hoisting from ground level.</p> <p>Warranties to be supplied as per Manufacturers specifications</p> <p><b><u>Stainless steel balustrading</u></b></p> <p>Rates should include for design, supply and installation, the detail of which must be submitted with this tender to be approved by the Architect.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 14                  Metalwork  <b>COEGA</b></p>		R	

**Brought Forward**

Tenderers must take note that the following items are only for tender purposes and will be used as basis and therefore the quantity might change. No claims in this regard will be entertained

Note: Shop drawings should be submitted to and approved by the Architect

All surfaces of steelwork must be given one coat of approved zinc chromate primer before leaving the works of the manufacturer

**Glazing**

The thickness of glass panels must meet the requirements of the National Building Regulations and the relevant SABS Codes of Glazing Practice. **If any glass types or thicknesses specified in this document does not conform with the above regulations, the tenderer is to note that he has to inform the Quantity Surveyor of such discrepancies at the time of tender as no claims in this regard will be entertained at a later stage**

R

**Carried Forward**

Section No. 2  
 Bill No. 14  
 Metalwork  
**COEGA**

R

<b>Brought Forward</b>			R
<b><u>STAINLESS STEEL BALUSTRADING</u></b>			
<b><u>Design, supply, deliver and erect the following stainless steel balustrades including end pieces, corners, etc.</u></b>			
1	Horizontal balustrades 1100mm high overall in accordance to building regulations (to be designed & supplied & signed off by the contractor). Balustrade to be core drilled and chemically fixed through concrete, brickwork, etc. 1 : 19      2 : 0      3 : 0      4 : 0 5 : 0	m	19
2	Raking (sloping) balustrades 1100mm high overall in accordance to building regulations (to be designed & supplied & signed off by the contractor). Balustrade to be core drilled and chemically fixed through concrete, brickwork, etc. 1 : 3      2 : 0      3 : 0      4 : 0 5 : 0	m	3
<b><u>STAINLESS STEEL HANDRAILS</u></b>			
<b><u>Design, supply, deliver and erect the following stainless steel handrails including end pieces, corners, etc.</u></b>			
3	Horizontal handrails consisting of stainless steel circular hollow section continuous rails fixed to brick walls, concrete walls, etc. in accordance to building regulations (to be designed, supplied, installed & signed off by the contractor). Balustrade fixing to include all necessary chemical anchors, pressed steel cover flanges, etc. as deemed necessary 1 : 3      2 : 0      3 : 0      4 : 0 5 : 0	m	3
4	Raking (sloping) handrails consisting of stainless steel circular hollow section continuous rails fixed to brick walls, concrete walls, etc. in accordance to building regulations (to be designed, supplied, installed & signed off by the contractor). Balustrade fixing to include all necessary chemical anchors, pressed steel cover flanges, etc. as deemed necessary 1 : 3      2 : 0      3 : 0      4 : 0 5 : 0	m	3
<b>Carried Forward</b>			R
Section No. 2 Bill No. 14 Metalwork <b>COEGA</b>			

<b>Brought Forward</b>			R
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<b><u>GALVANISED GATES</u></b>			
<b><u>Custom made steel gate</u></b>			
5	Hot dip galvanised mentis grating steel gate 1000 x 2400mm high consisting of 50 x 50 x 3mm mild steel square hollow sections (SHS) gate post including clear-mesh infill panels, paintwork (measured elsewhere), padlock, all to be approved by the architect 1 : 0      2 : 0      3 : 3      4 : 0 5 : 0	No	3
6	Hot dip galvanised mentis grating steel gate 3 600 x 2400mm high consisting of 50 x 50 x 3mm mild steel square hollow sections (SHS) gate post including clear-mesh infill panels, paintwork (measured elsewhere), padlock, all to be approved by the architect 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1
7	Hot dip galvanised mentis grating steel gate 1 700 x 2400mm high consisting of 50 x 50 x 3mm mild steel square hollow sections (SHS) gate post including clear-mesh infill panels, paintwork (measured elsewhere), padlock, all to be approved by the architect 1 : 2      2 : 0      3 : 0      4 : 0 5 : 0	No	2
<b><u>BURGLAR BARS</u></b>			
<b>Carried Forward</b>			R
Section No. 2 Bill No. 14 Metalwork <b>COEGA</b>			

Brought Forward		R
<p><b><u>Powder coated electro-galvanised steel non-retractable burglar bars with oval shaped horizontal tubing fitted in the reveal with tamper proof fixing. Strengthening bars as required by manufacturer. Maintenance life cycle of a minimum of 5 years and warranties to be provided against defective workmanship, materials, and corrosion. Steel to be pre-treated for enhance corrosion and UV resistance before powder coating. Colour: matte charcoal.</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>Clearance for window handles</u></b></li> <li>• <b><u>Very low maintenance</u></b></li> <li>• <b><u>Long product life expectancy</u></b></li> <li>• <b><u>Outstanding resistance to chemical and mechanical damage</u></b></li> <li>• <b><u>Resistant to scratching, chipping and wearing</u></b></li> <li>• <b><u>Easy to clean</u></b></li> <li>• <b><u>Resistant to UV and discolouration</u></b></li> </ul> <p>Burglar Bars fixed to narrow widths of:</p>		
8	<p>Window, overall size 600mm wide x 900mm high</p> <p style="margin-left: 20px;">1 : 20      2 : 15      3 : 2      4 : 0</p> <p style="margin-left: 20px;">5 : 0</p>	No 37
9	<p>Window, overall size 1 500mm wide x 1 200mm high</p> <p style="margin-left: 20px;">1 : 0      2 : 0      3 : 1      4 : 0</p> <p style="margin-left: 20px;">5 : 0</p>	No 1
10	<p>Window, overall size 2 100mm wide x 600mm high</p> <p style="margin-left: 20px;">1 : 0      2 : 0      3 : 2      4 : 0</p> <p style="margin-left: 20px;">5 : 0</p>	No 2
11	<p>Window, overall size 1 500mm wide x 1 500mm high</p> <p style="margin-left: 20px;">1 : 30      2 : 12      3 : 0      4 : 0</p> <p style="margin-left: 20px;">5 : 0</p>	No 42
<p><b><u>SUNDRY STEELWORK</u></b></p>		
Carried Forward		R
<p>Section No. 2 Bill No. 14 Metalwork <b>COEGA</b></p>		

Brought Forward				R
<b><u>Full bore cover plates</u></b>				
12	430 x 300 x 10mm cover plates with radius connection including ABE epoxy fixing or equivalent	No	2	
	1 : 0      2 : 0      3 : 2      4 : 0			
	5 : 0			
<b><u>Corner protectors</u></b>				
13	70 x 70 x 12mm Thick wall and corner protector approximately 1200mm high fixed to wall with wall contact adhesive to be installed strictly in accordance with the manufacturer's recommendations	No	19	
	1 : 19      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>Bumper rails</u></b>				
Floorworx Intrad or equivalent PVC grey high impact resistant wall and corner protection system comprising 200 x 29mm lipped channel profile bump rail Ref 'TR200' or equivalent clipped onto including joining pieces and brackets fixed to wall in mm uPVC brackets plugged and screwed to brick wall at maximum 400mm centres including all necessary external corners, joining blocks, stopped ends, corner protectors and door protectors all in accordance with the Manufacturers instructions				
14	Bumper rails fixed to walls	m	173	
	1 : 173      2 : 0      3 : 0      4 : 0			
	5 : 0			
15	Extra over 'Marley Intrad' or equally approved bump rail for stop ends	No	19	
	1 : 19      2 : 0      3 : 0      4 : 0			
	5 : 0			
16	Extra over 'Marley Intrad' or equally approved bump rail for external corners	No	19	
	1 : 19      2 : 0      3 : 0      4 : 0			
	5 : 0			
<b><u>SUNDRY STEELWORK</u></b>				
<b><u>SUNDRY GALVANIZED STEELWORK</u></b>				
Carried Forward				R
Section No. 2 Bill No. 14 Metalwork <b>COEGA</b>				

		Brought Forward		R
	<b><u>Bearers to brick linings, lintels, etc</u></b>			
	Angle corrosion specification:  Hot dipped galvanised in accordance to SABS 763 (latest edition) in stock lengths cut to suit on site and "cold galvanise" cut ends with "Zincfix" or similar approved			
17	Two 90 x 90 x 6mm back to back angles to brick openings in forming lintels  1 : 78      2 : 0      3 : 65      4 : 0 5 : 0	kg	144	
	<b><u>PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u></b>			
	<b><u>GALVANIZED PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u></b>			
	<b><u>Steel transformer room door Type AV.</u></b>			
18	Type AV transformer room door 0,910 x 2,110mm high with double rebated frame suitable for 345mm wide cavity brick wall including hinges, lockset, etc., complete  1 : 4      2 : 0      3 : 0      4 : 0 5 : 0	No	4	
19	Type AV transformer room double door 1,800 x 2,125mm high with double rebated frame suitable for one brick wall including hinges, lockset, etc., complete  1 : 2      2 : 0      3 : 0      4 : 0 5 : 0	No	2	
	<b><u>POWDER COATED HORIZONTAL ALUMINIUM LOUVRE UNITS</u></b>			
	<b><u>Approved natural anodised ventilation louvre complying with SANS 1578 fixed to timber doors (doors &amp; opening to doors measured elsewhere) and applied in accordance with SANS 1796 by an approved applicator</u></b>			
20	300 x 400mm Louvre with wire mesh screen  1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 14 Metalwork <b>COEGA</b>			

Brought Forward			R
<p><b><u>Approved ventilation louvre complying with SANS 1578 fixed to walls and applied in accordance with SANS 1796 by an approved applicator (Colour: Graphite or equally approved)</u></b></p>			
21	<p>2 100 x 600mm Louvre window with wire mesh screen</p> <p style="margin-left: 40px;">1 : 8      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	8
<p><b><u>ALUMINIUM DOORS FRAMES, ETC.</u></b></p> <p><b><u>Design, supply, deliver and erect the following custom made aluminium door frames suitable for handing timber doors (timber doors measured elsewhere), Frame Material: Powder Coated Matt Anthracite Grey, complete including sub-frames, hinges, fixing in position, etc. and sealing watertight, fixing to brickwork &amp; concrete all inclusive as per Architect's drawings and/ or approval</u></b></p>			
22	<p>Door frame, overall size 964mm wide x 2 400mm high</p> <p style="margin-left: 40px;">1 : 0      2 : 4      3 : 3      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	7
23	<p>Door frame, overall size 877mm wide x 2 125mm high</p> <p style="margin-left: 40px;">1 : 0      2 : 0      3 : 1      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	1
24	<p>Door frame, overall size 813mm wide x 2 134mm high</p> <p style="margin-left: 40px;">1 : 1      2 : 0      3 : 2      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	3
25	<p>Door frame, overall size 762mm wide x 2 134mm high</p> <p style="margin-left: 40px;">1 : 4      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	4
<p><b><u>ALUMINIUM SHOPFRONTS, DOORS, ETC.</u></b></p>			
Carried Forward			R
<p>Section No. 2                  Bill No. 14                  Metalwork  <b>COEGA</b></p>			

Brought Forward				R
<p><b><u>Design, supply, deliver and erect the following custom made aluminium extruded profile shop front or doors (Frame Material: Powder Coated Matt Anthracite Grey), complete including sub-frames, hinges, fixing in position, safety glass, etc. and sealing watertight, including ironmongery, fixing to brickwork, concrete all inclusive as per Architect's drawings and/ or approval (Glass Infill Type: 6.5mm thick laminated Low E safety glass or equally approved as per regulations and architect)</u></b></p>				
26	<p>Double aluminium door, overall size 1 500mm wide x 2 400mm high</p> <p style="margin-left: 40px;">1 : 7      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	7	
27	<p>Double aluminium door, overall size 1 690mm wide x 2 400mm high</p> <p style="margin-left: 40px;">1 : 5      2 : 0      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	5	
28	<p>Single aluminium door, overall size 862mm wide x 2 400mm high</p> <p style="margin-left: 40px;">1 : 21      2 : 21      3 : 0      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	42	
<p><b><u>ALUMINIUM WINDOWS</u></b></p> <p>Refer to Architects window schedule</p> <p><b><u>Design, supply, deliver and erect the following custom made aluminium extruded profile windows (Finish: Powder Coated Graphite), complete including sub-frames, hinges, fixing in position, safety glass, etc. and sealing watertight, including ironmongery, fixing to brickwork, concrete all inclusive as per Architect's drawings and/ or approval (Glass Type: Low E Glazing compliant with SAGGA and SANS 10400 Regulations and in accordance with AAAMSA)</u></b></p>				
29	<p>Window, overall size 600mm wide x 900mm high fixed panels with obscure glazing</p> <p style="margin-left: 40px;">1 : 20      2 : 15      3 : 2      4 : 0</p> <p style="margin-left: 40px;">5 : 0</p>	No	37	
Carried Forward				R
<p>Section No. 2                  Bill No. 14                  Metalwork  <b>COEGA</b></p>				

		<b>Brought Forward</b>						R
30	Window, overall size 1 500mm wide x 1 200mm high classic horizontal slider with clear glazing 1 : 0      2 : 0      3 : 1      4 : 0 5 : 0	No		1				
31	Window, overall size 2 100mm wide x 600mm high fixed panels with obscure safety glazing 1 : 0      2 : 0      3 : 2      4 : 0 5 : 0	No		2				
32	Window, overall size 1 500mm wide x 1 500mm high fixed panels with clear glazing 1 : 30      2 : 12      3 : 0      4 : 0 5 : 0	No		42				
<b><u>SHOWER SCREENS</u></b>								
<b><u>Design, supply, deliver and erect the following shower screens, complete including any sub-frames, clear silicone joint to all edges, fixing in position, toughened safety glass, etc. and sealing watertight, including ironmongery (handles where applicable), fixing to brickwork &amp; concrete all inclusive as per Architect's drawings</u></b>								
33	Approved CrystalTech Clear Trimatic White Aluminium Shower Door (885mm to 915mm x 1850mm) Sizes to be confirmed on site. 1 : 1      2 : 6      3 : 0      4 : 0 5 : 0	No		7				
<b><u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u></b>								
<b><u>Ds 70mm SABS CAT 2adm heavy duty strong room door as specified by mutual security group. Overall thickness of 190mm with a 70mm outer plate, 2 x7-lever security keylock, 8 bolts 40mm diameter (4 front &amp; 4 back), weight of 450kg</u></b>								
34	Strong room door 1190mm x 2400mm high 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No		1				
		<b>Carried Forward</b>						R
Section No. 2 Bill No. 14 Metalwork <b>COEGA</b>								

Brought Forward					R
35	Double ended strongroom ventilator	No	1		
	1 : 1      2 : 0      3 : 0      4 : 0				
	5 : 0				
36	Strongroom door stop plugged to floor	No	1		
	1 : 1      2 : 0      3 : 0      4 : 0				
	5 : 0				
<b><u>STEEL LOCKERS, CUPBOARDS ETC.</u></b>					
<b><u>Smart and Go steel cupboards with Epoxy paint finish</u></b>					
37	"Smart and go" 500mm x 1830mm high Lockable 3 door steel cupboard with one adjustable shelf per door fixed to wall including all necessary accessories in accordance with the manufacturer's specifications (design and supply)	No	4		
	1 : 4      2 : 0      3 : 0      4 : 0				
	5 : 0				
<b><u>SHELVING</u></b>					
<b><u>Design, supply, deliver and erect the following items:</u></b>					
Take note on how the shelves are measured on the below item					
38	Store Room Five Tier Shelf Unit, size 900mm long x 400mm deep x 2 000mm high overall, fixed on and including wall brackets and wall bands, "RS Components" Treston Grey steel shelving (50kg load), steel shelf M900 (Size 890mm x 400mm deep) with adjustable steel bracket fixed to wall (Code: 852 769-49 & 1357241) all as per the Manufacturer. (1x Quantity Measured includes the 5 total tiers 2 000mm high overall, e.g. the 50 quantities measured on this item includes 250 individual shelves)	No	24		
	1 : 24      2 : 0      3 : 0      4 : 0				
	5 : 0				
<b><u>WASHING LINES</u></b>					
Carried Forward					R
Section No. 2 Bill No. 14 Metalwork <b>COEGA</b>					

Brought Forward		R
<b><u>Approved Galvanised washing line posts</u></b>		
39	Supply and install washing line poles comprising of 50mm diameter galvanised steel T-posts, 2,100mm high, 750mm T junction width. Posts cast into 300mm deep x 300mm wide 15Mpa concrete base (including under digging on sloping areas) 1 : 0      2 : 6      3 : 0      4 : 0 5 : 0	No 6
40	Supply and install washing line galvanised wire 4mm x 5kg bundle 1 : 0      2 : 3      3 : 0      4 : 0 5 : 0	No 3
<b>Carried Forward to Summary of Section No. 2</b>		R
Section No. 2 Bill No. 14 Metalwork <b>COEGA</b>		

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 15</u></b></p> <p><b><u>PLASTERING (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Screeds</u></b></p> <p><b><u>Preparation of existing slab</u></b></p> <p>All laitance on the surface of the slab must be removed completely. Mechanized plant such as scabblers or abrasive blasters must be used.</p> <p>After the mechanical cleaning of the slab surface to expose the coarse aggregate, all dust and debris must be removed, and the surface must be thoroughly wetted and kept wet for at least 12 hours before application of the screed.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 15 Plastering <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Concrete screed</u></b></p> <p>Prepare new surface bed and screed &amp; cast new 25-30mm (or thickness as described in the bills of quantities) thick 1 part cement &amp; 3½ part sand, mix by hand or preferably by forced-action mechanical mixer for 3 minutes, use within 45 minutes. Screed to comply to sabs 50197-1 type CEM I or CEM II. Lay guide strips of screed mix to establish levels, lay screed in panels as large as possible in one operation without intermediate joints, level surface as finished by wood floats to non-slip finish.</p> <p>The use of an approved plasticizer is recommended to reduce the water content of the mix to the absolute workable minimum.</p> <p>The mix design must be submitted to the engineer and architect for approval.</p> <p><b><u>Application of concrete screed</u></b></p> <p>Remove all surface water from the slab. Apply a grout to the slab surface which consists of a 1:1 mix of cement and clean fine sand with just enough water to provide the consistency of a slurry.</p> <p>This grout is to be vigorously brushed into the scabbled surface with brooms. On completion of this operation, the surplus grout must be brushed off to leave only a thin coating.</p> <p>The screed must be placed while the grout is still visibly wet.</p> <p>The screed must be laid and compacted in one layer. Care must be taken to obtain the maximum compaction of the concrete screed.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 15          Plastering  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b>Plaster</b></p> <p>Cement plaster for 1 coat work on all brickwork shall be composed of 3 parts of sand to 1 part of cement, all measured by volume, and mixed as follows: Cement mortar shall be composed of 3 parts (by volume) of sand and 1 part (by volume) of cement. The material shall be mixed dry until of uniform colour and then water added and the mixture turned over until the ingredients are thoroughly incorporated. Cement mortar shall be produced in such quantities as can be used before commencing to set as no cement mortar that has once commenced to set shall be used in any way. Care shall be taken in mixing cement mortar to remove from the mixing machine or platform any old mortar that has already set as such mortar may not be incorporated into any new batch (Moisture content to be between 0% and 12%). Cement Plaster for 2 coats to conform to fine plaster sand modulus of not larger than 1mm. (sans 1090). Wood-trowelled to smooth surface and finish with steel trowel skim finish. Allow time for the drying of surface moisture.</p>			R	
--	--	--	---	--

<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2  Bill No. 15  Plastering  <b>COEGA</b></p>			R	

Brought Forward				R
<b><u>SCREEDS</u></b>				
<b><u>Screeds steel trowelled to a smooth even finish s per SANS 10109 part 2 finishes to concrete</u></b>				
1	30mm Thick on floors and landings 1 : 18      2 : 424      3 : 35      4 : 0 5 : 0	m2	477	
2	Average 130 mm thick on roof slabs to falls and currents 1 : 0      2 : 0      3 : 35      4 : 0 5 : 0	m2	35	
3	70 x 70mm Coved screed fillet against walls, window surrounds, etc. wood floated 1 : 0      2 : 0      3 : 24      4 : 0 5 : 0	m	24	
<b><u>EPOXY</u></b>				
<b><u>Flowcrete or equally approved antimicrobial treated polyurethane screed with skirting 150mm high strength granolithic "Dust Grey" in colour</u></b>				
4	On Floors and landings laid to falls 1 : 18      2 : 0      3 : 0      4 : 0 5 : 0	m2	18	
5	Extra over the above for a 150mm high skirting 1 : 24      2 : 0      3 : 0      4 : 0 5 : 0	m	24	
<b><u>PLASTER</u></b>				
<b><u>One coat cement plaster on brickwork</u></b>				
6	Internal Walls 1 : 0      2 : 126      3 : 18      4 : 0 5 : 0	m2	144	
7	On narrow widths 1 : 0      2 : 7      3 : 9      4 : 0 5 : 0	m2	17	
Carried Forward				R
Section No. 2 Bill No. 15 Plastering <b>COEGA</b>				

Brought Forward					R
8	Full depth V-joints to plaster work where brickwork and concrete join	m	38		
	1 : 38      2 : 0      3 : 0      4 : 0				
	5 : 0				
	<b><u>Two coat cement plaster, with gypsum skim plaster steel trowel finish on brick work surfaces</u></b>				
9	On internal walls	m2	1 519		
	1 : 0      2 : 1364      3 : 155      4 : 0				
	5 : 0				
10	On soffit of slabs	m2	35		
	1 : 0      2 : 0      3 : 35      4 : 0				
	5 : 0				
11	On columns	m2	20		
	1 : 20      2 : 0      3 : 0      4 : 0				
	5 : 0				
12	On narrow widths	m2	8		
	1 : 1      2 : 0      3 : 7      4 : 0				
	5 : 0				
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2					
Bill No. 15					
Plastering					
<b>COEGA</b>					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 16</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p><b><u>Fixing</u></b></p> <p>Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc. shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors, etc. shall be deemed to include 1:3 plaster bedding</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts from "Tal Professional" range of products as recommended by the manufacturer of the tiles</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 16 Tiling <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Cleaning of tiles</u></b></p> <p>Tiling shall be thoroughly cleaned down on completion. No additional costs for cleaning will be entertained</p> <p><b><u>Availability of tiles</u></b></p> <p>When pricing tenderers must make sure that there is enough stock available or that enough stock can be obtained timeously of the respective tiles specified</p> <p><b><u>Cutting of tiles</u></b></p> <p>All straight, circular and raking cutting and waste must be allowed for in the rates</p> <p><b><u>Bonding liquid and Keycoats</u></b></p> <p>All bonding liquids and keycoats must be allowed for in the rates</p> <p><b><u>Setting out</u></b></p> <p>Care shall be exercised in setting out the work, the preparation of templets and the checking of the detail drawings. All measurements shall be taken on the site where necessary and the full size setting out of each course shall be done at the yard so as to ensure the proper fitting of each stone</p> <p>Before putting any work in hand the contractor is to submit to the architect for his approval details of the manner in which he proposes to set out the slabs and joints in all wall facings, pavings, sills, treads, etc together with samples of grain or pattern matching</p> <p><b><u>Bedding and jointing</u></b></p> <p>Slate, marble, granite and other floor paving and wall linings are to be bedded solidly on the mortar thickness described and are to have tightly butt joints unless otherwise stated</p> <p>Where stonework is to be fixed with adhesive, the adhesive is to be suitable for and compatible with the type of stone. The contractor will be liable for any defects to the slate, marble and granite arising from the use of the adhesive</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 16          Tiling  <b>COEGA</b></p>		R	

		Brought Forward		R
		<b><u>FLOOR TILING</u></b>		
		<b><u>Antibacterial tiles, size 300mm x 300mm x 8.5mm thick, finish: matte. Moca accreditation and iso27447:2019(e) certifications to be provided. Anti-Bacterial industrial fine epoxy grout to joints, colour to match tiles, installed as per manufacturer's recommendations. Technical data sheets for chemical resistance to be provided. Movement joints to be provided every 4 metres or as per manufacturer's recommendations, fixed to wood floated 1:4 cement and sand screed. Tenderers are to include the price of the tile with this tender, plus labour, tile cement, grout, mark up, wastage, etc. PC Allowance of R250.00 per m2, excluding VAT, for the site delivered tile material price only, Tenderers are to include the price as per the PC amount, plus delivery, labour, tile cement, grout, mark up, etc.</u></b>		
1	On floors and landings 1 : 0      2 : 424      3 : 35      4 : 0 5 : 0	m2	459	
2	Skirting 150mm high 1 : 0      2 : 416      3 : 46      4 : 0 5 : 0	m	462	
		Carried Forward		R
Section No. 2 Bill No. 16 Tiling <b>COEGA</b>				

		Brought Forward		R
	<b><u>WALL TILING</u></b>			
	<p><b><u>Antibacterial tiles, size 200mm x 200mm x 8mm thick, finish: matte. Moca accreditation and iso27447:2019(e) certifications to be provided. Anti-Bacterial industrial fine epoxy grout to joints, colour to match tiles, installed as per manufacturer's recommendations. Technical data sheets for chemical resistance to be provided. External joints to have tiled in stainless steel corner protectors, fixed to plastered surfaces (plaster measured elsewhere). Tenderers are to include the price of the tile with this tender, plus labour, tile cement, grout, mark up, wastage, etc. PC Allowance of R200.00 per m2, excluding VAT, for the site delivered tile material price only, Tenderers are to include the price as per the PC amount, plus delivery, labour, tile cement, grout, mark up, etc.</u></b></p>			
3	On walls	m2	144	
	<p>1 : 0      2 : 126      3 : 18      4 : 0</p> <p>5 : 0</p>			
	<b><u>STONework</u></b>			
	<p><b><u>20mm Thick black granite, with 5mm mitred edge vanity</u></b></p>			
4	150mm high x 1 600mm long x 900mm wide overall "Pro Quartz Stone" or equivalent vanity with 5mm Mitred edges, including 120mm high return/ splash back with polysulphide seal at edges and 5mm Mitred edges on top, all fixed to and including 25mm galvanised mild steel (SHS or equally acceptable) support frame to the tenderer's design, primed & painted with matt black powder coated finish complete	No	44	
	<p>1 : 31      2 : 12      3 : 1      4 : 0</p> <p>5 : 0</p>			
	<b><u>SUNDRIES, DIVIDING STRIPS, ETC.</u></b>			
5	Dove grey 9x10mm high pvc movement joint, fixed to floors with an approved adhesive.	m	113	
	<p>1 : 0      2 : 104      3 : 9      4 : 0</p> <p>5 : 0</p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2                      Bill No. 16                      Tiling  <b>COEGA</b></p>			

<b>Brought Forward</b>					R
6	Black 9x10mm high pvc movement joint, fixed to floors with an approved adhesive. 1 : 0      2 : 2      3 : 0      4 : 0 5 : 0	m	2		
7	Natural anodised 48mm wide aluminium structural wall joint cover flexible pvc hospital infill, fixed in wall expansion joint with four steel spring clips per 3m length. 1 : 0      2 : 7      3 : 1      4 : 0 5 : 0	m	8		
8	10mm high aluminium formable straight edge trim, temporary fixed in position and bedded in tile adhesive while tiles are laid. 1 : 0      2 : 83      3 : 7      4 : 0 5 : 0	m	90		
9	10mm high aluminium formable straight edge trim, fixed on top of skirtings and bedded in tile adhesive while tiles are laid. 1 : 0      2 : 416      3 : 46      4 : 0 5 : 0	m	462		
10	Polysulphide joints between tiles approximately 5 x 5mm 1 : 0      2 : 732      3 : 71      4 : 0 5 : 0	m	803		
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2					
Bill No. 16					
Tiling					
<b>COEGA</b>					

Item No		Quantity	Rate	Amount																		
	<p><b><u>BILL 17</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p>In addition to the 'Standard Preambles to Trades' the following SABS codes are applicable:</p> <table data-bbox="188 1115 815 1384"> <tr> <td>PIPE THREADS</td> <td>SABS 21</td> </tr> <tr> <td>GALVANISING</td> <td>SABS 763</td> </tr> <tr> <td>WROUGHT STEEL SCREWED</td> <td></td> </tr> <tr> <td>FLANGES BS 10/</td> <td>SABS 1123</td> </tr> <tr> <td>ERW PIPING</td> <td>SABS 719</td> </tr> <tr> <td>DENSOWRAP</td> <td>SABS 1117</td> </tr> <tr> <td>NON-RISING SPINDLE VALVES</td> <td>SABS 665</td> </tr> <tr> <td>WATER TANKS</td> <td></td> </tr> <tr> <td>    SABS/CKS 114</td> <td></td> </tr> </table> <p><b><u>NOTE:</u></b></p> <p>Unless otherwise stated all excavation depths are related to finished levels</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2  Bill No. 17  Plumbing &amp; Drainage  <b>COEGA</b></p>	PIPE THREADS	SABS 21	GALVANISING	SABS 763	WROUGHT STEEL SCREWED		FLANGES BS 10/	SABS 1123	ERW PIPING	SABS 719	DENSOWRAP	SABS 1117	NON-RISING SPINDLE VALVES	SABS 665	WATER TANKS		SABS/CKS 114				
PIPE THREADS	SABS 21																					
GALVANISING	SABS 763																					
WROUGHT STEEL SCREWED																						
FLANGES BS 10/	SABS 1123																					
ERW PIPING	SABS 719																					
DENSOWRAP	SABS 1117																					
NON-RISING SPINDLE VALVES	SABS 665																					
WATER TANKS																						
SABS/CKS 114																						
			R																			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Additional notes to tenderers</u></b></p> <p>Descriptions to pipes in ground deemed to include for excavation and backfilling to the stated depths, measured from finished ground level to invert level of pipe, including compaction in layers to a minimum of 93 % Mod AASHTO density</p> <p>Please note that all geysers are to be hung from either the roof structure or on bearing walls, etc. and that all hangers, etc. must be in accordance and to the approval of the engineer's/manufacturers specifications and all such bearers, bolts, etc. must be allowed for in this tender under the respective (geysers) item in this bill by the tenderer and no claims or extras in this regard will be entertained</p> <p>No distinction is made between pipes been chased in, built in, cast in or to be suspended from the roof trusses, etc., the tenderers must study the drawings (drawings are available to be viewed at the engineers offices) and familiarise themselves with the extend of the works and make the necessary allowances in the tender as no claims or extras in this regard will be entertained.</p> <p>Tenderers must note that HDPE pipes must be installed by an approved and certified HDPE installer. Certificates of approved installer must be attached to the tender for verification.</p> <p>Where fittings have reducing ends or branches they are described as "reducer/reducing". Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p><b><u>General</u></b></p> <p>Rates should include for supply and installation, including input from an approved wet services contractor, the detail of which will be required by the mechanical engineer (wet services engineer).</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 17                  Plumbing &amp; Drainage  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p>Tenderers must take note that the following items are only for tender purposes and will be used as basis and therefore the quantity might change. No claims in this regard will be entertained</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><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin 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 or equivalent. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.</p> <p><u>Chasing:</u></p> <p>Chasing pipes into new walls shall be regarded as "building in" and is not measured separately. The cost of chasing, wrapping in suitable brown paper and making good shall be included in the rates for pipes.</p> <p><u>Holes for pipes through new walls:</u></p> <p>No allowance for holes and drilling for pipes through new walls has been made in these bills of quantities, the price for all holes and making good shall be deemed to be included in the description of pipes.</p> <p><u>Reducing fittings:</u></p> <p>Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2          Bill No. 17          Plumbing &amp; Drainage  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Description of pipes laid in trenches:</u></p> <p>Descriptions of pipes laid in trenches shall be deemed to include for carting away all surplus excavated material to a dumping site located by the contractor.</p> <p><u>Excavations:</u></p> <p>No claim for rock excavation will be entertained unless the Contractor has timeously notified the quantity surveyor thereof prior to backfilling.</p> <p>'Soft rock' and 'hard rock' shall be as defined in 'Earthworks'.</p> <p><u>Laying, backfilling, bedding, etc of pipes:</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.</p> <p>Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.</p> <p><u>Flush pans:</u></p> <p>Flush pans shall have straight or side outlets and 'P' or 'S' traps as necessary.</p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc:</u></p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable.</p> <p><u>Fixing:</u></p> <p>Descriptions of wall mounted, floor standing, drop-in, etc type sanitary fittings shall be deemed to include fixing in position and all fixing accessories.</p> <p>Descriptions of proprietary items shall include fixing in position and all fixing accessories as specified by the manufacturer.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2                  Bill No. 17                  Plumbing &amp; Drainage  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Waste unions:</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.</p> <p><u>Sleeve pipes:</u></p> <p>Electrical sleeve pipes to be Class 34 and are to include for draw wires.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 17 Plumbing &amp; Drainage <b>COEGA</b></p>		R	

Brought Forward					R
<b><u>CONVENTIONAL RAINWATER DISPOSAL (GUTTERS)</u></b>					
<b><u>Extruded seamless aluminium gutter</u></b>					
1	125 x 85mm Rectangular section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and riveted at 20mm centres	m	90		
	1 : 0      2 : 90      3 : 0      4 : 0				
	5 : 0				
2	75mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	74		
	1 : 0      2 : 74      3 : 0      4 : 0				
	5 : 0				
3	Extra over for 75mm wide rainwater pipe for eaves offset	No	18		
	1 : 0      2 : 18      3 : 0      4 : 0				
	5 : 0				
4	Extra over for 75mm wide rainwater pipe for spreader	No	9		
	1 : 0      2 : 9      3 : 0      4 : 0				
	5 : 0				
5	Extra over 75mm eaves gutter for outlet for 75 x 75mm pipe	No	9		
	1 : 0      2 : 9      3 : 0      4 : 0				
	5 : 0				
6	Extra over for shoe	No	9		
	1 : 0      2 : 9      3 : 0      4 : 0				
	5 : 0				
<b><u>HAILGUARDS</u></b>					
7	Galvanised stainless steel Hailguards 150mm wide including sub-frame of 12mm diameter round bar, laid loose over box gutters	m	90		
	1 : 0      2 : 90      3 : 0      4 : 0				
	5 : 0				
<b><u>RAINWATER DISPOSAL (PLUVIA)</u></b>					
<b><u>Rainwater system</u></b>					
Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>					

Brought Forward					R
<b><u>HDPE pipes, including all butt welded joints, to manufacturers specification</u></b>					
8	125mm Diameter pipes	m	1		
	1 : 0      2 : 0      3 : 1      4 : 0				
	5 : 0				
9	160mm Diameter pipes	m	3		
	1 : 0      2 : 0      3 : 3      4 : 0				
	5 : 0				
<b><u>Extra over HDPE pipes for fittings, including all butt welds</u></b>					
10	160 x 125mm Short eccentric reducer	No	6		
	1 : 0      2 : 0      3 : 6      4 : 0				
	5 : 0				
11	125mm Bend 45°	No	1		
	1 : 0      2 : 0      3 : 1      4 : 0				
	5 : 0				
12	160mm Bend 45°	No	2		
	1 : 0      2 : 0      3 : 2      4 : 0				
	5 : 0				
13	160 x 125mm Reducing Y-Junction 45°	No	1		
	1 : 0      2 : 0      3 : 1      4 : 0				
	5 : 0				
14	160 x 160mm Y-Junction 45°	No	1		
	1 : 0      2 : 0      3 : 1      4 : 0				
	5 : 0				
15	125mm Electroweld sleeve coupling	No	1		
	1 : 0      2 : 0      3 : 1      4 : 0				
	5 : 0				
16	160mm Electroweld sleeve coupling	No	4		
	1 : 0      2 : 0      3 : 4      4 : 0				
	5 : 0				
Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>					

Brought Forward					R
<b><u>Sundries</u></b>					
17	Base plate square two-hole with G1/2" threaded nut 1:0      2:0      3:1      4:0 5:0	No		1	
18	125mm Adjustable pipe bracket, with G1/2" threaded socket 1:0      2:0      3:2      4:0 5:0	No		2	
19	160mm Adjustable pipe bracket, with G1/2" threaded socket 1:0      2:0      3:4      4:0 5:0	No		4	
20	125mm Electrowelding tape for anchor bracket 1:0      2:0      3:1      4:0 5:0	No		1	
<b><u>Roof outlets</u></b>					
21	Pluvia roof outlet with a capacity of 9 l/s with and including universal contact sheet 1:0      2:0      3:1      4:0 5:0	No		1	
22	Pluvia roof outlet with a capacity of 12 l/s <b>with</b> contact sheet 1:0      2:0      3:1      4:0 5:0	No		1	
23	Rainwater Hopper Box 300 x 200 x 200mm for 160mm downpipes 1:0      2:0      3:1      4:0 5:0	No		1	
24	760 x 300 x 120mm Precast concrete rainwater channel stop end (20kg) 1:0      2:0      3:1      4:0 5:0	No		1	
<b><u>SOIL WASTE AND VENT PIPES</u></b>					
Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>					

Brought Forward					R
<p><b><u>HDPE soil, waste and vent pipes including, all elecroweldcoupling, expansion couplings, ring seal sockets and butt joint welds in the running lengths as per manufacturer's specifications</u></b></p>					
25	50mm Diameter pipes			m	124
	1 : 81      2 : 40      3 : 4      4 : 0				
	5 : 0				
26	110mm Diameter pipes			m	126
	1 : 79      2 : 43      3 : 4      4 : 0				
	5 : 0				
<p><b><u>Extra over HDPE pipes for fittings, including butt welds</u></b></p>					
27	50mm Screwed access end cap			No	40
	1 : 22      2 : 16      3 : 2      4 : 0				
	5 : 0				
28	110mm Screwed access end cap			No	358
	1 : 241      2 : 108      3 : 9      4 : 0				
	5 : 0				
29	110 x 50mm Reducer			No	47
	1 : 33      2 : 14      3 : 1      4 : 0				
	5 : 0				
30	50mm Bend			No	162
	1 : 110      2 : 47      3 : 4      4 : 0				
	5 : 0				
31	110mm Bend			No	50
	1 : 24      2 : 24      3 : 2      4 : 0				
	5 : 0				
32	50mm Junction			No	20
	1 : 11      2 : 8      3 : 1      4 : 0				
	5 : 0				
33	110mm Junction			No	25
	1 : 12      2 : 12      3 : 1      4 : 0				
	5 : 0				
Carried Forward					R
<p>Section No. 2                  Bill No. 17                  Plumbing &amp; Drainage  <b>COEGA</b></p>					

Brought Forward					R
34	50mm BSP adaptor	No	20		
	1 : 12      2 : 6      3 : 1      4 : 0				
	5 : 0				
35	110mm Straight pan connector	No	24		
	1 : 11      2 : 12      3 : 1      4 : 0				
	5 : 0				
36	110mm Vent cowl	No	25		
	1 : 12      2 : 12      3 : 1      4 : 0				
	5 : 0				
<b><u>Sundries</u></b>					
37	Joint of 50mm diameter HDPE pipe to floor drain or bath/basin/sink traps, etc.	No	17		
	1 : 8      2 : 8      3 : 1      4 : 0				
	5 : 0				
38	Joint of 110mm diameter cast iron pipe to stainless steel floor drain/grease trap	No	1		
	1 : 1      2 : 0      3 : 0      4 : 0				
	5 : 0				
<b><u>Traps, etc., including coupling to steel pipes and/or fittings</u></b>					
39	Square flange floor drain.	No	2		
	1 : 2      2 : 0      3 : 0      4 : 0				
	5 : 0				
40	110mm HDPE gulley trap	No	2		
	1 : 0      2 : 2      3 : 0      4 : 0				
	5 : 0				
41	400 x 400 x 16mm Concrete drain gulley with and including grating	No	2		
	1 : 0      2 : 2      3 : 0      4 : 0				
	5 : 0				
<b><u>DOMESTIC WATER SERVICES (HOT &amp; COLD)</u></b>					
Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>					

Brought Forward					R
<b><u>Class 'O' hard drawn capillary type copper tubing, including straight couplers in the running lengths</u></b>					
42	15mm Diameter pipes			m	374
	1 : 246    2 : 117    3 : 10    4 : 0				
	5 : 0				
43	20mm Diameter pipes			m	53
	1 : 40    2 : 12    3 : 1    4 : 0				
	5 : 0				
44	22mm Diameter pipes			m	31
	1 : 14    2 : 16    3 : 1    4 : 0				
	5 : 0				
45	35mm Diameter pipes			m	2
	1 : 2    2 : 0    3 : 0    4 : 0				
	5 : 0				
46	50mm Diameter pipes			m	5
	1 : 2    2 : 3    3 : 0    4 : 0				
	5 : 0				
<b><u>Extra over Class 'O' hard drawn capillary type tubing, for all types of capillary fittings</u></b>					
47	15mm Fitting			No	51
	1 : 24    2 : 24    3 : 3    4 : 0				
	5 : 0				
48	20mm Fitting			No	12
	1 : 12    2 : 0    3 : 0    4 : 0				
	5 : 0				
49	22mm Fitting			No	69
	1 : 30    2 : 36    3 : 3    4 : 0				
	5 : 0				
50	35mm Fitting			No	3
	1 : 3    2 : 0    3 : 0    4 : 0				
	5 : 0				
51	20mm Reducer			No	12
	1 : 12    2 : 0    3 : 0    4 : 0				
	5 : 0				
Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>					

Brought Forward						R	
52	22mm Reducer				No	69	
	1:30	2:36	3:3	4:0			
	5:0						
53	35mm Reducer				No	3	
	1:3	2:0	3:0	4:0			
	5:0						
54	50mm Straight male/female iron adaptor				No	3	
	1:1	2:1	3:0	4:0			
	5:0						
55	15mm Elbow/bend				No	31	
	1:14	2:14	3:2	4:0			
	5:0						
56	20mm Elbow/bend				No	7	
	1:7	2:0	3:0	4:0			
	5:0						
57	22mm Elbow/bend				No	41	
	1:18	2:22	3:2	4:0			
	5:0						
58	35mm Elbow/bend				No	2	
	1:2	2:0	3:0	4:0			
	5:0						
59	50mm Elbow/bend				No	3	
	1:1	2:1	3:0	4:0			
	5:0						
60	15mm Reducing tee				No	15	
	1:7	2:7	3:1	4:0			
	5:0						
61	20mm Reducing tee				No	4	
	1:4	2:0	3:0	4:0			
	5:0						
62	22mm Reducing tee				No	21	
	1:9	2:11	3:1	4:0			
	5:0						
Carried Forward							R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>							

Brought Forward						R		
63	50mm Reducing tee				No	3		
	1:1    2:1    3:0    4:0							
	5:0							
64	35mm Reducing tee				No	1		
	1:1    2:0    3:0    4:0							
	5:0							
65	15mm Equal tee				No	9		
	1:4    2:4    3:1    4:0							
	5:0							
66	20mm Equal tee				No	2		
	1:2    2:0    3:0    4:0							
	5:0							
67	22mm Equal tee				No	12		
	1:5    2:6    3:1    4:0							
	5:0							
68	35mm Equal tee				No	1		
	1:1    2:0    3:0    4:0							
	5:0							
69	50mm Equal tee				No	3		
	1:1    2:1    3:0    4:0							
	5:0							
	<b><u>Galvanised medium grade mild steel screwed and socketed pipes, including couplings in the running lengths</u></b>							
70	50mm Diameter pipes				m	11		
	1:4    2:6    3:0    4:0							
	5:0							
	<b><u>Extra over galvanised mild steel screwed and socketed pipes for galvanised mild steel fittings, including couplings</u></b>							
71	50mm Fitting				No	51		
	1:24    2:24    3:3    4:0							
	5:0							
	<b>Carried Forward</b>						R	
	Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>							

Brought Forward				R
<p><b><u>'Thermaflex' or equivalent insulation of 15mm nominal wall thickness, around pipes, including fittings and valves, etc. all in compliance with SANS10400XA and SANS 204 (Energy Efficiency)</u></b></p>				
72	15mm Diameter pipes, including fittings and valves 1 : 25      2 : 24      3 : 3      4 : 0 5 : 0	m	52	
73	20mm Diameter pipes, including fittings and valves 1 : 9      2 : 0      3 : 0      4 : 0 5 : 0	m	9	
74	22mm Diameter pipes, including fittings and valves 1 : 14      2 : 16      3 : 1      4 : 0 5 : 0	m	31	
75	35mm Diameter pipes, including fittings and valves 1 : 2      2 : 0      3 : 0      4 : 0 5 : 0	m	2	
76	50mm Diameter pipes, including fittings and valves 1 : 4      2 : 6      3 : 0      4 : 0 5 : 0	m	11	
<p><b><u>Valves, etc., including coupling to pipes and/or fittings</u></b></p>				
77	15mm 'Cobra' or equivalent No. 1090/15 chromium plated fullway ball valve 1 : 4      2 : 8      3 : 0      4 : 0 5 : 0	No	12	
78	20mm 'Cobra' or equivalent No. 1090/20 chromium plated fullway ball valve 1 : 4      2 : 0      3 : 0      4 : 0 5 : 0	No	4	
79	25mm 'Cobra' or equivalent No. 1090/25 chromium plated fullway ball valve 1 : 10      2 : 12      3 : 1      4 : 0 5 : 0	No	23	
Carried Forward				R
<p>Section No. 2 Bill No. 17 Plumbing &amp; Drainage <b>COEGA</b></p>				

Brought Forward					R
80	40mm 'Cobra' or equivalent No. 1090/40 chromium plated fullway ball valve 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
81	65mm 'Cobra' or equivalent No. 1090/65 chromium plated fullway ball valve 1 : 0      2 : 0      3 : 0      4 : 0 5 : 0	No	1		
82	Flush junior : urinal flush valve exposed. Non-hold open feature. "Econoflush" or equivalent with ball o stop control inlet, wall flange, additional screw and piston For large bowl and stall urinals. 3/4bsp female iron connection end. Recommended optimum design pressures: Inlet flow pressure 30 - 500kpa: maximum system pressure 600kpa. Fitted with all pipe connections & fittings. 1 : 3      2 : 0      3 : 0      4 : 0 5 : 0	No	3		
<b><u>WATER METERS, ETC., INCLUDING INSTALLATION COMPLETE</u></b>					
83	20mm Brass cold water meter with hinged cover over cyclometer dial 1 : 2      2 : 4      3 : 0      4 : 0 5 : 0	No	6		
84	20mm Brass hot water meter with hinged cover over cyclometer dial 1 : 2      2 : 4      3 : 0      4 : 0 5 : 0	No	6		
<b><u>CONCRETE FORMWORK</u></b>					
Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>					

<b>Brought Forward</b>				R
<b><u>Polystyrene block to be cast into reinforced concrete floor and maintaining in correct position during concrete pour</u></b>				
85	Polystyrene block size 300 x 300 x 150mm to be cast into reinforced concrete slabs to create void for slop hopper trap 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1	
<b><u>CLEANING AND STERILIZING</u></b>				
86	Provide all necessary water and sterilization material, etc., for cleaning the inside of the concrete domestic water tank, including chlorination, complete to the satisfaction of the architect, including providing a certificate of compliance and leave perfect on completion 1 : 1.00      2 : 0.00      3 : 0.00      4 : 0.00 5 : 0.00	Item	1.00	
<b><u>Sundries</u></b>				
87	Special pipe bracket formed of 25 x 25mm hollow section, two legs 800mm high and one cross brace 500mm long, two baseplate 400 x 400 x 3mm thick all welded together, the baseplate holed for and including four 10mm holding down bolts, all undercoated and painted to the satisfaction of the architect/engineer 1 : 1      2 : 0      3 : 0      4 : 0 5 : 0	No	1	
<b><u>TESTING</u></b>				
88	Provide all necessary water, etc., for and test this section of the plumbing services, sanitary fittings, pumps, etc., and in stages as deemed necessary, including chlorination, complete to the satisfaction of the architect and the local authority, replace any defective work free of charge, including any necessary re-testing and leave perfect on completion 1 : 1.00      2 : 0.00      3 : 0.00      4 : 0.00 5 : 0.00	Item	1.00	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>				

<b>Brought Forward</b>				R
89	<p>Allow for testing and commissioning this section of the plumbing services, sanitary fittings, pumps, etc., including any necessary re-setting, etc., for optimal performance of the entire system to the satisfaction of the architect for the duration of the contract, maintenance and guarantee period</p> <p style="text-align: center;">1 : 1.00    2 : 0.00    3 : 0.00    4 : 0.00 5 : 0.00</p> <p><b><u>THE FOLLOWING IN ABLUTION DUCTS</u></b></p> <p>Refer to the Preambles in the Earthworks bills contained in this document</p> <p><b><u>The following in ducts above NGL</u></b></p>	Item	1.00	
90	<p>Excavation in earth or compacted earth filling not exceeding 2m deep below natural, reduced or made up ground level, for drainage trenches.</p> <p style="text-align: center;">1 : 2        2 : 0        3 : 0        4 : 0 5 : 0</p>	m3	2	
91	<p>19mm Washed broken stone filling in ablution ducts</p> <p style="text-align: center;">1 : 2        2 : 0        3 : 0        4 : 0 5 : 0</p>	m3	2	
<p><b><u>SANITARY FITTINGS</u></b></p> <p><b><u>Rates for all sanitary fittings are to allow for the supply, deliver and installation of all fittings, inclusive of all sundry materials required for the installation, complete as per sanitary schedules on the drawings (pipework elsewhere measured).</u></b></p>				
<p>Water Closet</p>				
92	<p>WC suite comprising 'Aquasave' (code 751300) or equivalent white vitreous china pan with 'DPE A1 De Lux' solid hard double flap plastic toilet seat and 6 litre 'Siso' cistern &amp; nbsp;(code 712034) with flush valve (codeFJ 1000 or equivalent).</p> <p style="text-align: center;">1 : 10        2 : 12        3 : 1        4 : 0 5 : 0</p>	No	23	
<b>Carried Forward</b>				R
<p>Section No. 2 Bill No. 17 Plumbing &amp; Drainage <b>COEGA</b></p>				

<b>Brought Forward</b>				R
93	<p>Low level WC suite comprising 'Protea Paraplegic' code 7502 white vitreous china pan or equivalent with 'DPE A1 De Lux' solid hard double flap plastic toilet seat and 9 litre cistern code 710539 with flush pipe and side-flush lever mounted on wall adjacent to cistern.</p> <p style="padding-left: 40px;">1 : 1      2 : 0      3 : 0      4 : 0</p> <p style="padding-left: 40px;">5 : 0</p> <p>Wash hand basin</p>	No	1	
94	<p>510 x 400mm 'Sola' (code 703700) white vitreous china medical basin or equivalent with two tapholes including 32mm standing overflow tube fixed to wall on and including concealed wall bracket (code 8131Z2 or equivalent) and three 10mm bolts (code 8448Z0 or equivalent) sealed with silicone sealant where basin meets the wall.</p> <p style="padding-left: 40px;">1 : 6      2 : 2      3 : 0      4 : 0</p> <p style="padding-left: 40px;">5 : 0</p>	No	9	
95	<p>60cm Medical basin. Vitreous china. With no overflow. Colour : white.</p> <p style="padding-left: 40px;">1 : 25      2 : 10      3 : 1      4 : 0</p> <p style="padding-left: 40px;">5 : 0</p> <p>Urinal</p>	No	35	
96	<p>565 x 275 x 310 mm white vitreous china wall mounted Urinal or equivalent fixed on and including two hanger Brackets. Installation to be in strict accordance with the manufacturer's specifications and details. Urinal to be fixed with a chrome flush pipe.</p> <p style="padding-left: 40px;">1 : 3      2 : 0      3 : 0      4 : 0</p> <p style="padding-left: 40px;">5 : 0</p> <p>Sink</p>	No	3	
<b>Carried Forward</b>				R
<p>Section No. 2                  Bill No. 17                  Plumbing &amp; Drainage  <b>COEGA</b></p>				

<b>Brought Forward</b>					R
97	<p>Combination sink, free standing, formed from grade 304 1.2 mm thick. Stainless steel, with double bowl. Overall size 1 830 x 685 mm with 150 mm high splash back as model EC6 supplied, complete with cobra FM 1.00 flush valve or equivalent, 15 mm bedpan spray nozzle and 15 mm bottle spray nozzle, including pillar mixer with over arm swivel spout as CP171/041 and pillar mixer with retractable hand spray ref CP297 or equivalent</p> <p style="text-align: center;">1 : 2      2 : 4      3 : 0      4 : 0 5 : 0</p>	No	6		
98	<p>Franke drop-on sink or equivalent, polished stainless steel, single bowl, 900 x 535mm x 150mm, 38mm waste diameter, fitted onto cupboard (elsewhere specified).</p> <p style="text-align: center;">1 : 6      2 : 4      3 : 1      4 : 0 5 : 0</p> <p>Slop Hopper</p>	No	11		
99	<p>Slop hopper sink (CH) formed of 1.2 mm thick grade 304 18/10 stainless steel size 540 x 540 x 415 mm supplied with integral splashback; 110 mm waste outlet connected to and including p or s trap as required; integral flush pipe inlet with cobra FM 1.00 flush valve connected to 35 mm diameter water supply; hinged bucket grid fitted over funnel, fixed to plastered brickwork wall using two 40 x 40 mm square section stainless steel gallows brackets, and including bolting with four anchor 12 mm diameter bolts, 600 mm above finished floor level.</p> <p style="text-align: center;">1 : 1      2 : 0      3 : 0      4 : 0 5 : 0</p> <p>Showers</p>	No	1		
100	<p>Cobra Den Shower Head or equivalent 6 Spray patterns 155mm Chrome</p> <p style="text-align: center;">1 : 1      2 : 6      3 : 0      4 : 0 5 : 0</p>	No	7		
101	<p>Cobra shower arm or equivalent, round 300 Length: 300mm Brass Construction Chrome Plated</p> <p style="text-align: center;">1 : 1      2 : 6      3 : 0      4 : 0 5 : 0</p>	No	7		
<b>Carried Forward</b>					R
<p>Section No. 2 Bill No. 17 Plumbing &amp; Drainage <b>COEGA</b></p>					

Brought Forward					R
<b><u>TAPS, ETC., INCLUDING COUPLING TO PIPES AND/OR FITTINGS</u></b>					
102	Medical elbow-action, wall-type mixer, chrome. Includes: 1/4 turn ceramic disc, 1/2 bsp male inlet, aerated swan-neck swivel outlet, fixed centre bent inlet connections, and hook for swivel outlet, 20 year warranty	No	35		
	1 : 25      2 : 10      3 : 1      4 : 0 5 : 0				
103	Basin mixer, - one hole single lever, chrome. Flow restricted to 5.7 l/min. Includes 3/8 bsp, 400mm long, female flexible inlets, chrome plated	No	9		
	1 : 6      2 : 2      3 : 0      4 : 0 5 : 0				
104	Highrise swivel mixer with overarm swivel spout	No	34		
	1 : 16      2 : 16      3 : 2      4 : 0 5 : 0				
105	Hose bib tap. Heavy pattern low resistance type. With 3/4inch hose union, wingnut and lining for 3/4inch hose pipe. 3/4inch bsp male iron connection end. Standard brass. Code: fbbhn2c3-7ft01 or equivalent	No	1		
	1 : 1      2 : 0      3 : 0      4 : 0 5 : 0				
106	Flush actuator for urinal in 'Matt Chrome'	No	3		
	1 : 3      2 : 0      3 : 0      4 : 0 5 : 0				
107	COBRA Nile or equivalent concealed shower or bath mixer chrome single lever, code FSWHR6AR-0GT01	No	7		
	1 : 1      2 : 6      3 : 0      4 : 0 5 : 0				
<b><u>TRAPS, ETC</u></b>					
Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>					

		Brought Forward		R
<b>Approved:</b>				
108	Bottle nose trap 32mm chrome plated deep seal bottle trap code 345/50 or equivalent, 50mm outlet. 1 : 6      2 : 4      3 : 1      4 : 0 5 : 0	No	11	
109	Dip tube trap for washbasin, horizontal outlet: d40mm g1 1/4" bright chrome-plated - plastic 1 : 31      2 : 12      3 : 1      4 : 0 5 : 0	No	44	
110	40 x 40mm Plain rubber p-trap - all to architect's approval, or similar approved by architect 1 : 2      2 : 4      3 : 0      4 : 0 5 : 0	No	6	
111	Urinal trap code 152.983.00.1 or similar approved 1 : 3      2 : 0      3 : 0      4 : 0 5 : 0	No	3	
112	"Cobra" or equivalent Square Shower Trap with Shower P-trap, Outlet connection and Square Grating 1 : 1      2 : 6      3 : 0      4 : 0 5 : 0	No	7	
<b><u>WASTE UNIONS, ETC.</u></b>				
<b>Approved:</b>				
113	32mm Chrome plated aqua slotted basin click waste (302-32) with 62mm diameter flange and 80mm long shank or similar approved by architect 1 : 6      2 : 2      3 : 0      4 : 0 5 : 0	No	9	
114	Unslotted. With flanged back nut and washer, plug with stirrup. 62mm u00efu00bfu00bd flange, 45mm long shank. 1 1/2inch bsp male iron connection 1 : 25      2 : 10      3 : 1      4 : 0 5 : 0	No	35	
		Carried Forward		R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>				

		Brought Forward					R
<b><u>ELECTRIC WATER HEATERS</u></b>							
<b><u>"Kwikot" or equally approved</u></b>							
115	"Approved" 150 litre water heater direct to comply with SANS 1307, and is SABS 400kPa approved, supplied & installed as per the manufacturer				No	4.00	
<b><u>FIRE SERVICES</u></b>							
<b><u>Galvanised mild steel screwed and socked pipes and fittings</u></b>							
116	32mm Pipe and excavation not exceeding 1m deep including backfilling				m	15	
	1 : 15      2 : 0      3 : 0      4 : 0						
	5 : 0						
117	25mm Pipe laid in/under floors or fixed to walls, roofs, etc.				m	56	
	1 : 56      2 : 0      3 : 0      4 : 0						
	5 : 0						
<b><u>Extra over galvanised mild steel pipes for galvanised mild steel fittings</u></b>							
118	25mm Fittings				No	18	
	1 : 18      2 : 0      3 : 0      4 : 0						
	5 : 0						
119	32mm Reducing coupling				No	2	
	1 : 2      2 : 0      3 : 0      4 : 0						
	5 : 0						
120	32mm Elbow				No	4	
	1 : 4      2 : 0      3 : 0      4 : 0						
	5 : 0						
<b><u>Fire appliances, etc.</u></b>							
121	4.5kg Dry chemical powder fire extinguisher, including backboard, plugged and screwed				No	4	
	1 : 4      2 : 0      3 : 0      4 : 0						
	5 : 0						
		Carried Forward					R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>							

		<b>Brought Forward</b>		R
122	Fire hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket bolted to wall with and including expansion bolts 1:2          2:0          3:0          4:0 5:0  <u><b>Testing</b></u>	No	2	
123	Provide all necessary apparatus, water, etc. for and test the whole of the Fire Service installations to the satisfaction of a Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order	Item	1.00	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2 Bill No. 17 Plumbing & Drainage <b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 18</u></b></p> <p><b><u>GLAZING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p>			
	<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2            Bill No. 18            Glazing  <b>COEGA</b></p>		R	

Brought Forward				R
<b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b>				
<b><u>6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete, etc. and or as stated on the below measured items</u></b>				
1	400 x 800mm Mirror, fixed to wall with industrial double sided tape, aluminium edging strip to be installed between tiling and mirror. Or similar approved by architect.			
	1 : 31	2 : 12	3 : 1	4 : 0
	5 : 0			
			No	44
<b>Carried Forward to Summary of Section No. 2</b>				
Section No. 2				
Bill No. 18				
Glazing				
<b>COEGA</b>				
				R

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 19</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p><b><u>Paint specification</u></b></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Architect.</p> <p>Descriptions of paintwork including undercoats shall be deemed to include undercoats as recommended by the manufacturer of the finishing coats</p>			
	<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2                      Bill No. 19                      Paintwork  <b>COEGA</b></p>		R	

Brought Forward				R
<b><u>PAINTWORK, ETC. TO NEW WORK ON:</u></b>				
<b><u>ON FACE BRICKWORK</u></b>				
<b><u>Two coats brick dressing</u></b>				
1	Face Brick To Be Coated With A Low-Voc (Or Similar Approved) Brick Dressing Oil, To Manufacturer's Specifications.	m2	1 078	
	1 : 0      2 : 910      3 : 168      4 : 0			
	5 : 0			
<b><u>FLOATED PLASTER SURFACES</u></b>				
<b><u>Antibacterial Paint on cement plaster skimmed to a smooth surface.</u></b>				
• <b><u>Ensure surfaces are sound, clean and thoroughly dry - moisture content should not exceed 12%.</u></b>				
• <b><u>Apply primer as per manufacturer's recommendations and specifications.</u></b>				
• <b><u>Finish with 2 coats of anti-bacterial eggshell paint with drying times as per manufacturer's recommendations and specifications.</u></b>				
• <b><u>ISO certification to be provided for approval.</u></b>				
2	Internal walls	m2	1 519	
	1 : 0      2 : 1364      3 : 155      4 : 0			
	5 : 0			
3	Internal walls not exceeding 300mm wide	m	43	
	1 : 5      2 : 0      3 : 37      4 : 0			
	5 : 0			
<b><u>PLASTER BOARD SURFACES WITH</u></b>				
<b><u>Surface to be dry, sound and free of dirt and loose particles. Wipe down with a damp cloth and allow to dry completely. Prime with one coat alkali resistant plaster primer (Patching) and finish with two coats trade 65 matt pva</u></b>				
4	Internal bulkheads and ceilings	m2	452	
	1 : 0      2 : 424      3 : 28      4 : 0			
	5 : 0			
<b><u>SMOOTH CONCRETE SURFACES WITH</u></b>				
Carried Forward				R
Section No. 2				
Bill No. 19				
Paintwork				
<b>COEGA</b>				

Brought Forward					R
<p><b><u>Ensure surfaces are clean, dry and sound. Moisture content not more than 8% measured on a doser hygrometer bd2 scale (or equivalent) before painting. Apply either universal undercoat or professional undercoat to bare and repaired areas. Allow 16 hours to dry or apply multisurface primer to bare and repaired areas. Allow 2 hours to dry. Finish with two coats pure acrylic emulsion sheen paint with 2 hours drying time between coats, for a maintenance cycle of 12 years</u></b></p>					
5	Internal concrete soffits		m2	35	
	1 : 0	2 : 0	3 : 35	4 : 0	
	5 : 0				
6	Concrete columns		m2	20	
	1 : 20	2 : 0	3 : 0	4 : 0	
	5 : 0				
Carried Forward					R
<p>Section No. 2                  Bill No. 19                  Paintwork  <b>COEGA</b></p>					

Brought Forward					R
<b><u>METAL SURFACES WITH</u></b>					
<b><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 - sa2<sup>1</sup>/<sub>2</sub> or by hand/mechanical wire Brushing to st3 of the same standard. Allow to dry Completely and prime within 4 hours of cleaning. Prime with one coat epiwash chromate free primer (aw 1255) with an overcoating time of 4 hours and finish with two coats polyurethane enamel (up) with 2 Hours drying time between coats, for a maintenance cycle of 6 years in a c1 - inland environment</u></b>					
7	Door frames		m2	17	
	1 : 4	2 : 7	3 : 5	4 : 0	
	5 : 0				
8	Steel gates with clear-vu infill		m2	76	
	1 : 47	2 : 14	3 : 14	4 : 0	
	5 : 0				
9	Door surfaces not exceeding 300mm wide		m	89	
	1 : 48	2 : 20	3 : 20	4 : 0	
	5 : 0				
Carried Forward					R
Section No. 2					
Bill No. 19					
Paintwork					
<b>COEGA</b>					

Brought Forward					R
<p><b>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. Prime with one coat epiwash chromate free primer (aw 1255) with an overcoating time of 4 hours and finish with two coats polyurethane enamel (up) with 2 Hours drying time between coats, for a maintenance cycle of 6 years in a c1 - inland environment.</b></p>					
10	Door frames		m2	11	
	1 : 11	2 : 0	3 : 0	4 : 0	
	5 : 0				
11	Doors		m2	31	
	1 : 31	2 : 0	3 : 0	4 : 0	
	5 : 0				
12	Door surfaces not exceeding 300mm wide		m	40	
	1 : 40	2 : 0	3 : 0	4 : 0	
	5 : 0				
<p><b><u>WOOD SURFACES WITH</u></b></p> <p><b><u>Surface to be dry, sound and clean. Wash knots and resinous areas with lacquer thinners (ils 1) and coat with woodcare knot seal (pk 2) and apply one coat of plascon woodcare pretreatment (wwp 1) or equivalent, overcoated within 48 hours with a moisture content, measured with a doser hygrometer (or equivalent), of bd 2 scale (a1-a5) &lt; 14% or less. Prime with one coat wood primer (uc 2) with an overcoating time of 16 hours and finish with two coats wall &amp; all (waa) with 2 hours drying time between coats, for a maintenance cycle of 7 years</u></b></p>					
13	Doors		m2	72	
	1 : 33	2 : 16	3 : 23	4 : 0	
	5 : 0				
Carried Forward					R
<p>Section No. 2                      Bill No. 19                      Paintwork  <b>COEGA</b></p>					



Item No		Quantity	Rate	Amount
	<p><b><u>BILL 20</u></b></p> <p><b><u>BUILDER'S WORK IN CONNECTION WITH SERVICES</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p>			
	<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2                      Bill No. 20                      Builders' work in connection with services  <b>COEGA</b></p>		R	

Brought Forward				R
<b><u>SLEEVE PIPES, ETC.</u></b>				
<b><u>Cut horizontal or vertical chase in brickwork and make good, for:</u></b>				
1	Double electrical conduits	m	60	
	1 : 0      2 : 45      3 : 15      4 : 0			
	5 : 0			
<b><u>Cut holes for pipes not exceeding 100mm diameter and make good, through the following.</u></b>				
2	One-brick wall	No	20	
	1 : 0      2 : 15      3 : 5      4 : 0			
	5 : 0			
<b><u>Cut recess in walls and make good for the following.</u></b>				
3	Electrical switch or socket outlet in 230mm one brick wall.	No	14	
	1 : 0      2 : 11      3 : 4      4 : 0			
	5 : 0			
<b><u>Make good chases cut into existing plastered walls including making good at junction of new with existing plaster (forming of chase elsewhere).</u></b>				
4	Chase cut into one or two coat cement plaster wall finish for double conduit.	m	60	
	1 : 0      2 : 45      3 : 15      4 : 0			
	5 : 0			
<b><u>Metal lathing/ chicken mesh wire or equally approved</u></b>				
5	Supply & install 100mm wide metal lathing/ chicken mesh wire fixed to chased walls.	m	60	
	1 : 0      2 : 45      3 : 15      4 : 0			
	5 : 0			
<b><u>STANDBY GENERATOR</u></b>				
Carried Forward				R
Section No. 2 Bill No. 20 Builders' work in connection with services <b>COEGA</b>				

Brought Forward				R
	<p><b><u>Design, supply, install, test and commission 380V, 50Hz, emergency diesel generator complete with sound proof canopy, embedded fuel day tank (minimum 8 hours back-up), automatic change-over panel etc.</u></b></p> <p><b><u>Test and commission the Fully Enclosed Outdoor Type Diesel Generator set (of 250 kVA Prime type) including the cooling system, sound attenuation system (special care must be given to the attenuation as the set is located in a residential environment - &lt;75dB(A) at one meter from the set), under unit base fuel tank with full double skin type diesel fuel tank, fuel system, topped up fuel, tank, stainless steel exhaust system clad with stainless steel, weather proof painted 3CR12 Canopy and radiator louvre, battery and battery charger system and AMF control panel (Deep sea or similar approved submitted with this tender), including cabling &amp; stainless steel cable supports from AMF panel to generator etc. Engine (John Deere, Perkins, Deutz, Volvo, Mitsubishi, Caterpillar or similar approved submitted with this tender), Alternator (Stromberg, Marelli, Mecc or similar approved submitted with this tender)</u></b></p>			
6	<p>250kVA emergency diesel standby generator (rated 250kVA for standby operation)</p> <p style="padding-left: 20px;">1 : 1      2 : 0      3 : 0      4 : 0</p> <p style="padding-left: 20px;">5 : 0</p> <p><b><u>Diesel first fill</u></b></p>	No	1	
7	<p>Supply and fill full tank of diesel, after commissioning of generator</p> <p style="padding-left: 20px;">1 : 200      2 : 0      3 : 0      4 : 0</p> <p style="padding-left: 20px;">5 : 0</p>	ltr	200	
<p><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2                      Bill No. 20                      Builders' work in connection with services  <b>COEGA</b></p>				R

Bill No	SECTION SUMMARY - Building Works	Page No	Amount
1	Demolitions	42	
2	Earthworks	50	
3	Decanting	63	
4	Prefabricated Modular Buildings	72	
5	Concrete, Formwork & Reinforcement	81	
6	Precast Concrete	83	
7	Masonry	89	
8	Waterproofing	96	
9	Roof Covering	100	
10	Carpentry & Joinery	105	
11	Ceilings	111	
12	Floor Coverings, etc.	115	
13	Ironmongery	123	
14	Metalwork	136	
15	Plastering	141	
16	Tiling	146	
17	Plumbing & Drainage	169	
18	Glazing	171	
19	Paintwork	177	
20	Builders' work in connection with services	180	
<b>Carried to Final Summary</b>			R
Section No. 2 <b>COEGA</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 1</u></b></p> <p><b><u>FENCING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p>These bills are measured based on the Standard System of Measuring Building Work 2015 Seventh Edition. No claims will be entertained for items not covered by the afore mentioned document.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 1 Fencing <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p>The contractor is advised to be in constant communication with the quantity surveyor during the course of the tender process and/or project with regards to the following:</p> <ol style="list-style-type: none"> <li>1. Tender drawings versus the Tender bills of quantities - Should there be a discrepancy between the tender drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately.</li> <li>2. Construction drawings versus the Tender bills of quantities - Should there be a discrepancy between the construction drawings and the bills of quantities, the contractor shall notify the quantity surveyor immediately.</li> <li>3. Site Instructions - The quantity surveyor together with the principal agent shall be notified immediately of any site instructions or potential costs in accordance to the contract.</li> </ol> <p>No claims or costs arising out of not adhering to the above will be entertained.</p> <p>Design and Construct:</p> <p>The entire Bills of Quantities shall only be used as a pricing tool and does not supersede the works information, site information and drawings. All works to be executed on site shall be in accordance with drawings and site instructions. The actual works executed on site will be re-measured and adapted to the items outlined within the BoQ.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3                  Bill No. 1                  Fencing  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3  Bill No. 1  Fencing  <b>COEGA</b></p>		R	

Brought Forward

R

**Bulking**

No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.

**Classes of excavation**

Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:

***Soft and intermediate excavation as soft excavation***

***Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.***

**Prescribed density tests on filling**

Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.

**Water, etc.**

The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust

**Damage to persons or property**

The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.

Carried Forward

R

Section No. 3  
Bill No. 1  
Fencing  
**COEGA**

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 1 Fencing <b>COEGA</b></p>		R	

<b>Brought Forward</b>			R
<b><u>BOUNDARY SCREEN FENCE</u></b>			
<b><u>Approved Category 3 Security Fencing System</u></b> <b><u>(Clear-Vu or Equally approved)</u></b>			
1	Supply and install fencing comprising of steel mesh panels size 3000 x 2400mm high at 3000mm centres, 4mm diameter hot dipped galvanised wire with aperture size 76,2mm x 12.7mm, panels to be reinforced with 4 x 50mm "V" recessed bands including 2 x 75mm 70 degree flanges along sides, posts cast into 600mm deep x 400mm wide 15Mpa concrete base on one side, posts 85 x 45mm tapered, hot dipped galvanised the polymetic 6000 coated, including all single and double bolt comb clamps galvanised then polymetic 6000 coated and antivandal galvanised bolts, the fence to fitted with anti-climb comprising of 100mm high galvanised "shark tooth" type spike rails, bolted to 50mm wide ClearVu mesh or equivalent flange bent along fence on top, fitted with anti-burrow comprising of 500mm ripper flatwrap at the bottom, all installed according to manufacturer's instructions and specifications, suitable for non-coastal areas	m	301
2	Supply and install fencing comprising of steel mesh panels size 3000 x 2000mm high at 3000mm centres, 4mm diameter hot dipped galvanised wire with aperture size 76,2mm x 12.7mm, panels to be reinforced with 4 x 50mm "V" recessed bands including 2 x 75mm 70 degree flanges along sides, posts cast into 600mm deep x 400mm wide 15Mpa concrete base (including under digging for sloping areas) on one side, posts 85 x 45mm tapered, hot dipped galvanised the polymetic 6000 coated, including all single and double bolt comb clamps galvanised then polymetic 6000 coated and antivandal galvanised bolts, the fence to fitted with anti-climb comprising of 100mm high galvanised "shark tooth" type spike rails, bolted to 50mm wide ClearVu mesh flange bent along fence on top, fitted with anti-burrow comprising of 500mm ripper flatwrap at the bottom, all installed according to manufacturer's instructions and specifications, suitable for non-coastal areas	m	48
<b>Carried Forward</b>			R
Section No. 3 Bill No. 1 Fencing <b>COEGA</b>			

<b>Brought Forward</b>			R
3	Single gate size 1000 x 2400mm high overall in two equal leaves, each leaf fitted with similar and equal to the fence ant-climb on top structures and ant-burrow at the bottom structures, including all accessories and installed in accordance with manufacturer's instructions	No	2
4	Custom made Sliding gate size 5000 x 2400mm high overall fitted with similar and equal to the fence ant-climb on top structures and ant-burrow at the bottom structures, including sliding track, mass concrete, excavations, etc. and all accessories and installed in accordance with manufacturer's instructions	No	2
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 1			
Fencing			
<b>COEGA</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 2</u></b></p> <p><b><u>STORMWATER DRAINAGE, SEWER DRAINAGE AND WATER SUPPLY</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 2 Storm Water Installation <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 2          Storm Water Installation  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b><u>STORMWATER DRAINAGE</u></b></p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 2          Storm Water Installation  <b>COEGA</b></p>		R	

<b>Brought Forward</b>				R
<b><u>Mass concrete with a coarse aggregate of 19mm and a minimum compressive strength of 15MPa at 28 days</u></b>				
1	V-shaped channel 1000mm wide x 75mm thick with rounded salient edges and finished on exposed surfaces with (2:1) cement mortar, laid to falls in panels not exceeding 1800mm long with 12mm bitumen impregnated softboard movement joints with exposed edges raked out for a depth of 10mm and filled with bituminous compound including all necessary excavation, compaction, formwork, etc.	m	146	
<b><u>EXCAVATION FOR PIPES</u></b>				
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
2	Trench excavation for pipes exceeding 1m wide and not exceeding 2m wide (Pipes measured elsewhere)	m3	150	
<b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u></b>				
<b><u>Extra over bulk excavation in earth for excavation in</u></b>				
3	Hard rock	m3	8	
<b><u>Risk of collapse of excavations.</u></b>				
4	Sides of trench and hole excavations exceeding 1,5m deep.	m2	200	
<b><u>Keeping excavations free of water</u></b>				
5	Keeping excavations free of water	Item	1.00	
<b><u>STORMWATER DRAINAGE</u></b>				
<b><u>HDPE pipes, including all butt welded joints on Class B bedding, to manufacturers specification</u></b>				
6	450mm Diameter pipes laid to falls in earth or earth filling not exceeding 2m deep.	m	50	
<b><u>FILLING, ETC.</u></b>				
<b>Carried Forward</b>				R
Section No. 3 Bill No. 2 Storm Water Installation <b>COEGA</b>				

Brought Forward			R
<p><b><u>Earth filling imported by the contractor, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b></p>			
7	Imported class B bedding of continuous mould of selected granular material for bedding pipe barrel	m3	23
<p><b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage exceeding 100m and not exceeding 200m from perimeter of excavations or stock piles, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b></p>			
8	Selected fill blanket compacted uniformly with light compaction directly over the pipe	m3	45
9	Main fill compacted uniformly with light compaction directly over the pipe	m3	83
<p><b><u>Compaction of surfaces.</u></b></p>			
10	Compaction of ground surfaces under trenches and holes.	m2	75
<p><b><u>STORMWATER CATCHPITS, MANHOLES, ETC</u></b></p>			
<p><b><u>Excavate for and build stormwater field inlet with one brick sides in extra hard burnt stock bricks, finished smooth pointed internally and with 100mm thick reinforced concrete 15 Mpa (19mm stone) bottom and fitted with a manhole cover and frame (Measured elsewhere) placed in minimum 2 &amp; maximum 475mm thick reinforced concrete spacers set in 1:6 cement: sand mix and with a 100mm 20 MPa (19mm stone) precast concrete cover slab, wood float smooth on all exposed surfaces and the bottom benched up in concrete 20 MPa (8mm stone) with steel trowel finish around channels</u></b></p>			
11	Stormwater junction box, approximately size 1 540 x 1 040mm internally and not exceeding 1m deep to invert.	No	2
<p><b><u>GRATINGS, FRAMES, ETC</u></b></p>			
12	<b><u>Approved staggered BS 1247 at 300 c/c cast iron step irons.</u></b>	No	20
Carried Forward			R
<p>Section No. 3                  Bill No. 2                  Storm Water Installation  <b>COEGA</b></p>			

<b>Brought Forward</b>				R
13	450 x 600mm heavy duty Type C stormwater grid and frame complete "Besaans-du Plessis" product No. 2898 or similar approved	No	1	
14	Manhole cover and frame to SANS 558-1973 (Type 2A) set in class 20/19mm concrete	No	3	
<b><u>GRID INLETS</u></b>				
<b><u>Excavate for and build stormwater grid inlet with one-brick sides in extra hard burnt stock bricks, finished fair face internally and reinforced with two layers Brickforce at top, on and including 150mm thick reinforced concrete 20 MPa (19mm stone) bottom with Ref No. 311 mesh reinforcement and fitted with grating and frame (Measured elsewhere) cast into and including 150mm reinforced concrete 20 MPa (19mm stone) cover slab with IPE140 I-beam in between 750mm long, steel trowelled smooth on all exposed surfaces and dished down to grating with clean sharp arises and angles, the bottom benched up in fine concrete 20 MPa (19mm stone) finished smooth in 1:1 cement plaster around channels</u></b>				
15	Single grid inlet size 1000 x 1200mm externally and not exceeding 1.5m deep for 450mm diameter pipe including stone pitching around	No	1	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 2 Storm Water Installation <b>COEGA</b>				

Brought Forward				R	
	<p><b><u>Excavate for and build stormwater kerb inlet with one-brick sides in extra hard burnt stock bricks, finished fair face internally and reinforced with two layers Brickforce at top, on and including 150mm thick reinforced concrete 20 MPa (19mm stone) bottom with Ref No. 311 mesh reinforcement and fitted with grating and frame (Measured elsewhere) cast into and including 150mm reinforced concrete 20 MPa (19mm stone) cover slab with IPE140 I-beam in between 750mm long, steel trowelled smooth on all exposed surfaces and dished down to grating with clean sharp arises and angles, the bottom benched up in fine concrete 20 MPa (19mm stone) finished smooth in 1:1 cement plaster around channels</u></b></p>				
16	Kerb inlet size 1000 x 1200mm externally and not exceeding 2m deep for 450mm diameter pipe including stone pitching around	No	2		
	<b><u>Gabion mattress</u></b>				
17	Reno mattress size 3750 x 3000 x 1000mm high filled with rocks varying from 75 to 150mm diameter, including ground preparation, bidum, excavation, etc.	No	2		
18	Reno mattress size 5000 x 4000 x 1000mm high filled with rocks varying from 75 to 150mm diameter, including ground preparation, bidum, excavation, etc.	No	4		
	<b><u>TESTING</u></b>				
19	Provide all necessary apparatus, water, etc. for and test the whole of the "NEW" Stormwater Drainage to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order	Item	1.00		
	<b><u>BUDGETORY ALLOWANCE</u></b>				
20	Allow the sum of R50,000.00 for dealing with existing stormwater services	Item	1.00	50 000.00	50 000.00
21	Allow the sum of R250,000.00 for a storm water attenuation pond and related storm water management works	Item	1.00	250 000.00	250 000.00
	<b>Carried Forward to Summary of Section No. 3</b>			R	
	Section No. 3 Bill No. 2 Storm Water Installation <b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 3</u></b></p> <p><b><u>SEWER RETICULATION</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 3 Sewer Installation <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 3          Sewer Installation  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b><u>EXCAVATION FOR PIPES</u></b></p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 3          Sewer Installation  <b>COEGA</b></p>		R	

Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
1	Trench excavation for pipes not exceeding 1m wide (Pipes measured elsewhere)	m3	86
<b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u></b>			
<b><u>Extra over bulk excavation in earth for excavation in</u></b>			
2	Hard rock	m3	4
<b><u>Risk of collapse of excavations.</u></b>			
3	Sides of trench and hole excavations exceeding 1,5m deep.	m2	180
<b><u>Keeping excavations free of water</u></b>			
4	Keeping excavations free of water	Item	1.00
<b><u>Extra over all excavations for carting away.</u></b>			
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	9
<b><u>FILLING, ETC.</u></b>			
<b><u>Earth filling imported by the contractor, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>			
6	Imported class B bedding of continuous mould of selected granular material for bedding pipe barrel	m3	17
<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage exceeding 100m and not exceeding 200m from perimeter of excavations or stock piles, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>			
7	Selected fill blanket compacted uniformly with light compaction directly over the pipe	m3	69
Carried Forward			R
Section No. 3 Bill No. 3 Sewer Installation <b>COEGA</b>			

Brought Forward			R
<b><u>Compaction of surfaces.</u></b>			
8	Compaction of ground surfaces under trenches and holes.	m2	58
<b><u>SOIL DRAINAGE</u></b>			
<b><u>HDPE PE 100 (Class PN 10) pipes including couplings in the running lengths laid within or inside HDPE sleeve pipe (Sleeve pipe, excavation &amp; backfill measured elsewhere)</u></b>			
9	160mm Diameter pipes laid to falls inside HDPE sleeve pipe	m	60
<b><u>Class PN 10 Sleeve pipes laid in earth or earth filling, including couplings, sealants, site weld, HDPE butt weld to plastic federation of SA certification, stubs, etc. (refer to drawing No. 2106-WW0403 Rev B)</u></b>			
10	225mm diameter HDPE sleeve pipes laid to falls in earth or earth filling	m	60
<b><u>Extra over HDPE pipes for fittings</u></b>			
11	160mm to 110mm reducer	No	11
12	160mm Bend 45 degrees	No	20
13	160mm Bend 90 degrees	No	25
14	160mm Channel junction	No	5
15	160mm Rodding eye junction	No	15
16	160mm End cap	No	30
<b><u>Extra over HDPE sleeve pipes for fittings (welded)</u></b>			
17	225mm Bend 45 degrees	No	20
18	225mm Bend 90 degrees	No	25
19	225mm Channel junction	No	5
<b>Carried Forward</b>			R
Section No. 3 Bill No. 3 Sewer Installation <b>COEGA</b>			

		<b>Brought Forward</b>		R	
20	225mm Rodding eye junction	No	15		
21	225mm End cap	No	30		
	<b><u>MANHOLES, ETC</u></b>				
	<b><u>Excavate (including working space), stockpile &amp; maintain for and build precast sewer manhole with factory made concrete sections and reducer slabs joined with a Bitumen sealing strip or similar approved material and all joints between concrete sections shall be sealed with an approved sticking tape (smith &amp; nephew or similar) on the outside. The factory manufactured sections shall comply with SABS 1294-1981. Excessive excavations shall be filled only after the engineers approval, with class 15/19 concrete or suitable material as directed by the engineer. Concrete pipe bedding shall be laid continuously around all manholes. Manholes to be fitted with heavy duty Type 2A manhole cover and frame (elsewhere) cast into and including 150mm reinforced concrete spacers bedded in 1:6 cement mortar cover slab, steps, steel trowelled smooth on all exposed surfaces and dished down to grating with clean sharp arrises and angles, the bottom benched up in fine concrete 20 MPa (19mm stone) finished smooth in 1:1 cement plaster around channels</u></b>				
22	Manholes not exceeding 2m deep to invert	No	4		
	<b><u>Manhole covers and frames, etc.</u></b>				
23	560mm Diameter Type 2A manhole cover and frame, having a mass of 176 kg bedded in 1:6 cement mortar.	No	4		
	<b><u>TESTING</u></b>				
24	Provide all necessary apparatus, water, etc. for and test the whole of the "NEW" Soil Drainage to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order	Item	1.00		
		<b>Carried Forward</b>		R	
	Section No. 3 Bill No. 3 Sewer Installation <b>COEGA</b>				

		Brought Forward		R	
<b><u>BUDGETORY ALLOWANCE</u></b>					
25	Allow the sum of R50,000.00 for dealing with existing soil drainage services	Item	1.00	50 000.00	50 000.00
26	Allow the sum of R15,000.00 for testing of all existing sewer pipelines, etc.	Item	1.00	15 000.00	15 000.00
<b>Carried Forward to Summary of Section No. 3</b>				R	
Section No. 3					
Bill No. 3					
Sewer Installation					
<b>COEGA</b>					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 4</u></b></p> <p><b><u>SEPTIC TANK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 4 Septic Tank <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 4          Septic Tank  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p><b><u>DEMOLITIONS</u></b></p> <p>Section No. 3          Bill No. 4          Septic Tank  <b>COEGA</b></p>		R	

Brought Forward			R
<b><u>SPECIFIC PRELIMINARIES</u></b>			
<b><u>PHOTOGRAPHS OF EXISTING STRUCTURES</u></b>			
1	The contractor shall compile a complete photographic record of all the adjoining structures prior to commencing with the demolitions	Item	1.00
<b><u>REMOVAL OF EXISTING WORK</u></b>			
<b><u>Breaking down and removing of septic tank, etc.</u></b>			
2	Underground septic tank approximately 50m <sup>2</sup> , comprising concrete surface beds, brick work external walls, brick work internal walls, concrete cover, etc.	Item	1.00
3	Cut and borrow to fill, including haulage and compaction to 90% Mod AASHTO in filling septic tanks	m <sup>3</sup>	180
<b><u>SITE CLEARANCE ETC</u></b>			
<b><u>Site clearance</u></b>			
4	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m <sup>2</sup>	72
5	Stripping average 150mm thick layer of top soil and spoil to a dumping site to be located by the contractor.	m <sup>3</sup>	9
<b><u>BULK EXCAVATIONS</u></b>			
<b><u>Bulk excavation in earth exceeding 2m and not exceeding 4m deep</u></b>			
6	Cut to spoil (Septic Tank excavation material to be spoiled and priced for only on this item specifically).	m <sup>3</sup>	139
<b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u></b>			
<b><u>Extra over bulk excavation in earth for excavation in</u></b>			
7	Hard rock	m <sup>3</sup>	21
Carried Forward			R
Section No. 3 Bill No. 4 Septic Tank <b>COEGA</b>			

Brought Forward			R
<b><u>Extra over all excavations for carting away.</u></b>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	139
<b><u>Keeping excavations free of water</u></b>			
9	Keeping excavations free of water.	Item	1.00
<b><u>FILLING ETC</u></b>			
<b><u>Imported G5 fill layer material in 150mm thick layers compacted to 95% modified AASHTO density.</u></b>			
10	To form platforms, etc.	m3	19
<b><u>Compaction of surfaces.</u></b>			
11	Rip up and scarify ground surfaces under floors for a depth of 150mm, breaking down oversize material, including taking up a maximum tolerance of 50mm and adding suitable material where necessary and carting away where necessary and compacting to 93% Mod AASHTO density.	m2	63
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>25MPa/19mm concrete</u></b>			
12	Bases	m3	13
13	70 x 70mm Coved concrete triangular fillet cast on top of pit base slab, etc. wood floated	m	60
<b><u>REINFORCED CONCRETE</u></b>			
<b><u>25MPa/19mm concrete</u></b>			
14	Built up slabs, on top of Bond-dek slabs, etc.	m3	13
<b><u>CONCRETE SUNDRIES</u></b>			
Carried Forward			R
Section No. 3 Bill No. 4 Septic Tank <b>COEGA</b>			

Brought Forward				R
	<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>			
15	Concrete Surfaces, etc	m2	63	
	<b><u>Steel float</u></b>			
16	Finish to top surface of concrete abluion base with a steel trowel.	m2	63	
	<b><u>PERMANENT FORMWORK (DEGREE OF ACCURACY II)</u></b>			
	<b><u>Permanent formwork not exceeding 3.5m high above bearing level, to:</u></b>			
17	1mm Thick Bond-dek pans 75mm deep valleys with 900mm wide cover, etc. fixed with and including shear connectors 19mm in diameter at 450mm centres as well as any necessary supports to keep the structure sound	m2	63	
	<b><u>SUNDRY FORMWORK</u></b>			
	<b><u>Smooth formwork to form:</u></b>			
18	Opening circular on plan not exceeding 1m girth through concrete slabs not exceeding 170mm thick	No	6	
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
	<b><u>Fabric reinforcement</u></b>			
19	Type 311 fabric reinforcement (Measured in 2 layers) in Ablution hole concrete surface beds, etc.	m2	126	
	<b><u>SUPERSTRUCTURE</u></b>			
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) perforated plaster brick size 222x73x106mm in class II mortar manufactured in accordance with SANS 227:2007</u></b>			
20	NFX Class II mortar: One brick walls	m2	152	
	<b><u>BRICKWORK SUNDRIES</u></b>			
	Carried Forward			R
	Section No. 3 Bill No. 4 Septic Tank <b>COEGA</b>			

Brought Forward			R
	<b><u>Brickwork reinforcement</u></b>		
21	150mm Wide reinforcement built in horizontally	m	882
	<b><u>WATERPROOFING TO PIT TOILET WALLS</u></b>		
	<b><u>Design, supply and install "ABE Cementitious flexible waterproofing slurry" lanko Hydroflex embedded or equally approved, in a polyester cloth where necessary</u></b>		
22	Against foundation pit walls	m2	132
	<b><u>EXCAVATION FOR PIPES</u></b>		
	<b><u>Excavation in earth not exceeding 2m deep</u></b>		
23	Trench excavation for pipes not exceeding 1m wide (Pipes measured elsewhere)	m3	750
	<b><u>Earth filling imported by the contractor, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>		
24	Imported class B bedding of continuous mould of selected granular material for bedding pipe barrel	m3	113
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, including haulage exceeding 100m and not exceeding 200m from perimeter of excavations or stock piles, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>		
25	Selected fill blanket compacted uniformly with light compaction directly over the pipe	m3	638
	<b><u>SOIL DRAINAGE</u></b>		
	<b><u>HDPE PE 100 (Class PN 10) pipes including couplings in the running lengths laid within or inside HDPE sleeve pipe (Sleeve pipe, excavation &amp; backfill measured elsewhere)</u></b>		
26	160mm Diameter pipes laid to falls inside HDPE sleeve pipe	m	250
	<b>Carried Forward</b>		R
	Section No. 3 Bill No. 4 Septic Tank <b>COEGA</b>		



Item No		Quantity	Rate	Amount
	<p><b><u>BILL 5</u></b></p> <p><b><u>WATER RETICULATION</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 5 Water Installation <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 5          Water Installation  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b><u>EXCAVATION FOR PIPES</u></b></p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 5          Water Installation  <b>COEGA</b></p>		R	

Brought Forward			R
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
1	Trench excavation by hand for pipes not exceeding 1m wide (Pipes measured elsewhere)	m3	216
<b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u></b>			
<b><u>Extra over bulk excavation in earth for excavation in</u></b>			
2	Hard rock	m3	11
<b><u>Risk of collapse of excavations.</u></b>			
3	Sides of trench and hole excavations exceeding 1,5m deep.	m2	465
<b><u>Keeping excavations free of water</u></b>			
4	Keeping excavations free of water	Item	1.00
<b><u>FILLING, ETC.</u></b>			
<b><u>Earth filling imported by the contractor, compacted in layers not exceeding 150mm thick to 93% Mod AASHTO density</u></b>			
5	Imported class B bedding of continuous mould of selected granular material for bedding pipe barrel	m3	43
6	Imported selected granular material placed and compacted in uniform layers on both sides of the pipe for bedding cradle	m3	173
<b><u>Compaction of surfaces.</u></b>			
7	Compaction of ground surfaces under trenches and holes.	m2	144
<b><u>MEDIUM-PRESSURE PIPELINES</u></b>			
Carried Forward			R
Section No. 3 Bill No. 5 Water Installation <b>COEGA</b>			

Brought Forward				R
<b><u>Supply Class PN 16 HDPE PE100 pipes and lay or place within HDPE sleeve pipes, complete with couplings all in accordance to SABS 966:</u></b>				
8	90mm Diameter	m	13	
9	75mm Diameter	m	115	
10	63mm Diameter	m	27	
<b><u>Class PN 10 PE100 Sleeve pipes laid in earth or earth filling, including couplings, sealants, site weld, HDPE butt weld to plastic federation of SA certification, stubs, etc. (refer to drawing No. 2106-WW0403 Rev B)</u></b>				
11	160mm diameter HDPE sleeve pipes laid to falls in earth or earth filling	m	155	
<b><u>Extra over items above for:</u></b>				
12	75mm to 63mm reducer	No	13	
13	90mm to 75mm reducer	No	5	
14	90mm equal T	No	4	
15	75mm equal T	No	20	
16	90mm bend (90°)	No	2	
17	75mm bend (90°)	No	10	
18	63mm bend (90°)	No	43	
19	75mm end caps	No	30	
<b><u>Extra over HDPE sleeve pipes for fittings (welded)</u></b>				
20	160mm Bend 45 degrees	No	15	
21	160mm Bend 90 degrees	No	52	
22	160mm Channel junction	No	24	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 5 Water Installation <b>COEGA</b>				

	<b>Brought Forward</b>			R
23	160mm End cap	No	30	
	<b><u>VALVES, VALVE CHAMBERS, ETC</u></b>			
	<b><u>Excavate for and build valve chamber with one-brick sides in extra hard burnt stock bricks in 1:3 cement mortar finished fair face internally on well compacted earth filling and with 150mm thick reinforced concrete 25 Mpa (19mm stone) bottom and with a 150mm thick reinforced concrete 25 Mpa (19mm stone) cover slab on and including Y12 high tensile bars @ 150mm c/c both ways, with and including heavy duty 450 x 600mm cast iron manhole cover and frame according to SABS 558 "Besaans du Plessis Product No. 2170 or similar approved"</u></b>			
24	Valve chamber size internally 900 x 900 x 1200mm deep	No	5	
	<b><u>Excavate (including working space), stockpile &amp; maintain for and build precast water inspection manholes with factory made concrete sections and reducer slabs joined with a Bitumen sealing strip or similar approved material and all joints between concrete sections shall be sealed with an approved sticking tape (smith &amp; nephew or similar) on the outside. The factory manufactured sections shall comply with SABS 1294-1981. Excessive excavations shall be filled only after the engineers approval, with class 15/19 concrete or suitable material as directed by the engineer. Concrete pipe bedding shall be laid continuously around all manholes. Manholes to be fitted with heavy duty Type 2A manhole cover and frame (elsewhere) cast into and including 150mm reinforced concrete spacers bedded in 1:6 cement mortar cover slab, step, steel trowelled smooth on all exposed surfaces and dished down to grating with clean sharp arrises and angles, the bottom benched up in fine concrete 20 MPa (19mm stone) finished smooth in 1:1 cement plaster around channels</u></b>			
25	Water Inspection Manholes not exceeding 2m deep to invert	No	5	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 5 Water Installation <b>COEGA</b>			

Brought Forward			R
<b><u>Manhole covers and frames, etc.</u></b>			
26	Type 3A Besaans-du Plessis or equivalent valve box 450 x 450 x 300mm thick class 20/19 concrete with and including a 50mm diameter 'RSV' gate valve class 16	No	5
27	560mm Diameter Type 2A manhole cover and frame, having a mass of 176 kg bedded in 1:6 cement mortar.	No	5
<b><u>BULK WATER METER ASSEMBLY (ABOVE GROUND)</u></b>			
28	80mm diameter Steel pipe - Flanged	m	12
29	80mm bend (90°)	No	4
30	90DN SG Iron gate valve flanged to SANS 664-1:2009	No	2
31	Elster Kent Helix H4000 or equivalent Bulk water meter 80mm in diameter or similar approved flanged	No	1
32	Elster Kent Helix H4010 or equivalent in-line strainer 80mm in diameter or similar approved flanged	No	1
<b><u>THRUST BLOCKS, ETC.</u></b>			
<b><u>Mass concrete class 20 Mpa (19mm stone) in thrust blocks, including any necessary excavations and formwork, etc.</u></b>			
33	Bend	No	30
34	End caps	No	30
35	Tee or reducing Tee	No	25
36	Gate valve	No	5
<b><u>MARKER BLOCK</u></b>			
<b><u>Marker block</u></b>			
37	150 x 150mm Aluminium plate (2mm thick) with marking on the plate. The plate is to be fixed on class 25/19 concrete	No	5
Carried Forward			R
Section No. 3 Bill No. 5 Water Installation <b>COEGA</b>			

		Brought Forward			R	
<b><u>TESTING</u></b>						
38	Provide all necessary water, etc., for and test this section of the plumbing services, sanitary fittings, pumps, etc., and in stages as deemed necessary, including chlorination, complete to the satisfaction of the architect and the local authority, replace any defective work free of charge, including any necessary re-testing and leave perfect on completion	Item	1.00			
39	Allow for testing and commissioning this section of the plumbing services, sanitary fittings, pumps, etc., including any necessary re-setting, etc., for optimal performance of the entire system to the satisfaction of the architect for the duration of the contract, maintenance and guarantee period	Item	1.00			
<b><u>BUDGETORY ALLOWANCE</u></b>						
40	Allow the sum of R50,000.00 for dealing with existing water services	Item	1.00	50 000.00		50 000.00
41	Allow the sum of R15,000.00 for testing of all existing water pipelines, etc.	Item	1.00	15 000.00		15 000.00
<b><u>FIRE WATER RETICULATION</u></b>						
<b><u>MAIN CONNECTION</u></b>						
<b><u>Installation of main supply carbon steel piping in the running lengths laid on and including excavations and class B bedding.</u></b>						
42	Supply & install 100Ø mm black steel connecting main	m	65			
43	Denso wrapping of 100Ø mm connecting main	m	65			
<b><u>WATER ANCILLARY ITEMS</u></b>						
44	Allow the sum of R700 000.00 Seven Hundred Thousand for the Supply, delivery and installation of sectional pressed steel water storage tanks - approximately 100 KL (Size to be confirmed) position on ground including pipe fittings, pumps and valves complete.	Item	1.00	700 000.00		700 000.00
		<b>Carried Forward</b>			R	
Section No. 3 Bill No. 5 Water Installation <b>COEGA</b>						

The Design and Construction of Ntshhele Clinic

		Brought Forward		R	
45	Allow the sum of R250 000.00 Two Hundred and Fifty Thousand for the Foundations for the Sectional Galvanised Pressed Steel Tanks as per the Suppliers Specifications. Alternative an elevated tank stand.	Item	1.00	250 000.00	250 000.00
<b><u>Testing</u></b>					
46	Testing fire water supply and reticulation system	Item	1.00		
<b>Carried Forward to Summary of Section No. 3</b>				R	
Section No. 3					
Bill No. 5					
Water Installation					
<b>COEGA</b>					

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 6</u></b></p> <p><b><u>WATER HARVESTING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects' drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 6 Water Harvesting <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3                  Bill No. 6                  Water Harvesting  <b>COEGA</b></p>		R	

**Brought Forward**

**Damage to persons or property**

The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.

**Visit the site**

Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.

R

**Carried Forward**

Section No. 3  
Bill No. 6  
Water Harvesting  
**COEGA**

R

Brought Forward			R
<b><u>TANKS AND STANDS</u></b>			
<u>Ground preparation and compaction :</u>			
1	Rip, scarify, mix and consolidate top 150mm of sub grade to 95% mod AASHTO density.	m2	31
<b><u>CONCRETE, FORMWORK &amp; REINFORCEMENT</u></b>			
<u>30MPa/20mm concrete:</u>			
2	Surface beds, etc.	m3	5
3	Mass concrete infill	m3	9
<u>Finishing top surfaces of concrete to an evenly ribbed non-slip surface (broom finish):</u>			
4	Surface beds to falls.	m2	31
<u>Smooth formwork to edges</u>			
5	Formwork to edge of slab not exceeding 300 mm high	m	50
<u>Fabric reinforcement:</u>			
6	REF. 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	31
<u>Masonry</u>			
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) perforated plaster brick size 222x73x106mm in class II mortar manufactured in accordance with SANS 227:2007</u></b>			
7	One brick walls	m2	50
<u>Red FBX clay face brick, size 222 x 106 x 73mm built in stretcher bond, Manufactured In Accordance with SANS 227:2007, Bedded And Jointed In Class II Mortar (Mortar Colour: Red to match brick) and pointed with flush horizontal and vertical joints, suitable for exposure zones 1-4</u>			
8	Extra over brickwork for face brickwork	m2	50
Carried Forward			R
Section No. 3 Bill No. 6 Water Harvesting <b>COEGA</b>			

		Brought Forward		R
<b><u>IRONMONGERY</u></b>				
<u>Locks, etc.</u>				
9	30mm Approved brass padlock.	No	5	
<b><u>PLUMBING</u></b>				
<u>Tanks, etc.</u>				
10	1400 Litre plastic seamless water storage tank complete with fixing lugs and lid, fitted with and including 15mm brass bibtap with handle suitable for padlocking and setting in position on concrete tankstand (elsewhere measured) and tying down with 4mm diameter galvanised wire wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire and embedded into concrete including linking the tank to the gutters	No	5	
11	Hole through top of tank lid for 100mm diameter pipe.	No	5	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
Bill No. 6				
Water Harvesting				
<b>COEGA</b>				

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 7</u></b></p> <p><b><u>PARKING AND PAVING EARTHWORKS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 7 Parking and Walkways <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3                  Bill No. 7                  Parking and Walkways  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 7 Parking and Walkways <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 7 Parking and Walkways <b>COEGA</b></p>		R	

Brought Forward			R
<b><u>EARTHWORKS</u></b>			
<b><u>Excavations</u></b>			
1	Open face excavation in earth to reduce levels	m3	174
2	Extra over all excavations for carting away surplus material from excavations and/or from stockpiles on site to a dumping site to be located by the Contractor	m3	174
<b><u>Filling, etc.</u></b>			
3	Earth filling from the excavations to make up levels around buildings compacted to 90% modified AASHTO density	m2	87
4	Imported natural gravel material (minimum G5 material to TRH14) supplied by the Contractor and brought onto site from commercial sources in filling under paving, etc compacted in layers not exceeding 150mm thick to 90% modified AASHTO density	m3	188
5	Compaction of ground surface under pavings, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compact to 93% modified AASHTO density	m2	1 251
<b><u>PAVING, ETC.</u></b>			
<b><u>80mm "Interlock paving block" in herringbone pattern class 2 (2.8MPa tensile splitting strength according to SANS 1058:2010) on and including 25mm bedding sand according to SABS 1200 MJ with dry filler sand swept and vibrated into joints, all sand laid into subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I</u></b>			
6	Paving laid to falls in parking (trafficable including cutting of pavers where necessary)	m2	1 163
Carried Forward			R
Section No. 3 Bill No. 7 Parking and Walkways <b>COEGA</b>			

Brought Forward			R
	<p><b><u>Beige clay paving brick, colour: nougat, laid in interlocking bond on and including 20mm thick river sand bed, with (1:4) sand and cement slurry mix worked into joints and lightly compacted, with excess cement removed on completion with a minimum longitudinal fall of 1% on a transverse fall of at least 2% and concrete edge restraints and kerb cuts as per engineer's details.</u></b></p>		
7	Paving to walkway areas laid to falls (non-trafficable including cutting of pavers where necessary)	m2	88
	<p><b><u>PRECAST CONCRETE KERBS, ETC</u></b></p> <p><b><u>Precast concrete kerbing (complying with SABS 927) in 1m lengths, wet presses, placed in position on top of 50mm thick bedding 1:3 cement sand mix, bedded and jointed in 10mm thick 1:3 cement sand mix mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, excavation, backfilling, ramming, etc.:</u></b></p>		
8	Mountable figure 7 kerb 180 x 280mm high	m	360
9	25Mpa/19mm to 150 x 150mm cast insitu channel to figure 7 mountable kerb	m3	8
10	Figure 10 edge kerb with 200 x 150 x 150mm unreinforced concrete 25MPa/19mm haunching at back of each joint including excavation, backfilling, etc.	m	500
11	Wheelchair insitu ramp, including excavation, filling, cartaway, etc.	No	3
	<p><b><u>SUNDRIES</u></b></p> <p><b><u>Sleeve pipes including excavation, backfilling and compacting.</u></b></p>		
12	Group of three 150mm diameter uPVC sleeve pipes laid in earth or earth filling, including all excavations not exceeding 1m deep, backfill and compact to 95%modified AASHTO density.	m	18
Carried Forward			R
	<p>Section No. 3                      Bill No. 7                      Parking and Walkways  <b>COEGA</b></p>		

Brought Forward				R
<p><u>Class 1 retro-reflective road sign complying with the requirements of "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1519, including galvanised steel support post 76mm diameter x 3mm thick x 2500mm long above finished ground level and minimum 600mm from road edge (to edge of sign) including all necessary excavation, backfilling, etc. including setting post in 25Mpa concrete base size 600mm diameter x 900mm minimum thickness</u></p>				
13	600mm Diameter hexagon "Type R1" stop sign, complete with 2.5m galvanised steel post.	No	2	
14	900mm Triangular "Type R2" yield stop sign, complete with 2.5m galvanised steel post.	No	3	
15	900mm "NO PARKING" sign	No	2	
16	1125 x 675mm "DISABLED PARKING" sign	No	3	
Carried Forward				R
<p>Section No. 3            Bill No. 7            Parking and Walkways  <b>COEGA</b></p>				

Brought Forward			R
<b><u>ROAD MARKING</u></b>			
<b><u>Approved reflectorised road marking paint, applied at the manufacturer's recommended covering rate, including proper preparation of surfaces.</u></b>			
17	White dashed line 100mm wide.	m	45
18	Yellow continuous line 100mm wide.	m	360
19	White arrow 4000mm x 500mm overall.	No	4
20	White turn arrow 4000mm x 1000mm overall.	No	5
21	White pedestrian blocks 600mm wide	m2	5
22	White "STOP" sign	m2	2
23	White "YIELD" sign	No	3
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 7			
Parking and Walkways			
<b>COEGA</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 8</u></b></p> <p><b><u>COVERED PARKING AND WALKWAYS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 8 Covered Parking and Walkways <b>COEGA</b></p>			R

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3                  Bill No. 8                  Covered Parking and Walkways  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p> <p><b><u>Visit the site</u></b></p> <p>Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3                  Bill No. 8                  Covered Parking and Walkways  <b>COEGA</b></p>		R	

Brought Forward			R
<b><u>EXCAVATIONS</u></b>			
<b><u>Excavation in earth not exceeding 2m deep below natural, elevated or reduced ground level for</u></b>			
1	Holes	m3	19
<b><u>Extra over all excavations for carting away.</u></b>			
2	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	19
<b><u>Risk of collapse of excavations.</u></b>			
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	125
<b><u>Compaction of surfaces.</u></b>			
4	Compaction of ground surfaces under trenches and holes to 90% Mod AASHTO density.	m2	19
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<b><u>20MPa/19mm concrete</u></b>			
5	Bases	m3	19
<b><u>CONCRETE SUNDRIES</u></b>			
<b><u>Finishing top surfaces of concrete smooth with a wood float/steel trowel</u></b>			
6	Concrete bases, etc	m2	19
<b><u>Steel reinforcement to structural concrete work</u></b>			
7	Steel reinforcing bars in foundations	t	1.87
Carried Forward			R
Section No. 3 Bill No. 8 Covered Parking and Walkways <b>COEGA</b>			

<b>Brought Forward</b>				R
<b><u>PROFILE SHEETING AND ACCESSORIES</u></b>				
<b><u>Sheeting:</u></b>				
0.5mm thick IBR Roof sheeting on purlins using approved, screws, fasteners, all in accordance with the manufacturer's specifications, Painted (paint measured elsewhere)				
<b><u>Erection:</u></b>				
Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced.				
<b><u>Safety:</u></b>				
The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.				
<b><u>Handling and storing:</u></b>				
The contractor shall ensure that all materials used on site for cladding, etc. are transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.				
<b><u>ROOFING</u></b>				
<b><u>0.5mm thick IBR roof as described on the profile sheeting and accessories, in strict accordance with manufacturer's specifications including all necessary sealer strips on overlaps, etc.</u></b>				
8	Roof covering with pitch not exceeding 25 degrees	m2	1 183	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 8 Covered Parking and Walkways <b>COEGA</b>				

Brought Forward			R
<b><u>STRUCTURAL STEEL</u></b>			
<b><u>General</u></b>			
Allowances below are for design, supply and installation, including input from an approved structural steel contractor, the detail of which will be required by the structural engineer.			
Tenderers must take note that the following allowances shall be separately tendered to a suitable design and supply subcontractor should the tenderer not be qualified to take on such specialised work			
<b><u>STEEL COLUMNS AND BEAMS INCLUDING PRIMER</u></b>			
<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>			
9	100 x 100 x 5mm	kg	2 221
<b><u>STEEL PURLINS, GIRTS, BRACING, ETC INCLUDING PRIMER</u></b>			
<u>Purlins and girts, bolted to steel or concrete</u>			
10	75 x 50 x 20 x 2.0 CFLC Purlins (Rafter)	kg	980
11	125 x 75 x 20 x 2.0 CFLC Purlins (Edge Beams)	kg	254
<b><u>BOLTS, FASTENERS, ETC</u></b>			
12	M20 chemical anchor bolt embedded in top of concrete, brickwork, etc.	No	208
<b><u>SUNDRIES</u></b>			
<u>40MPa non-shrink grout</u>			
13	Bedding approximately 20mm thick under 300 x 300mm wide baseplate, including chamfered edges all round	No	52
Carried Forward			R
Section No. 3 Bill No. 8 Covered Parking and Walkways <b>COEGA</b>			

14	<b>Brought Forward</b>	kg	718	R
	<p><u>Plates, etc.</u></p> <p>Allowance for plates, bolts, gussets, stiffeners, etc.</p> <p><b><u>DECORATIVE PAINT FINISH</u></b></p> <p>All paintwork in accordance with the manufacturer's specifications</p> <p><b>Specification</b></p> <p>Paint finish: Plascothane 9000 Polyurethane (Twin Pack Polyurethane Acrylic) or equally approved</p> <p>Colour: Tintable Transparent / Pastel Bases</p> <p>Application: Airless spray, Roller or brush (Primer + topcoats)</p> <p>Primer: Plascotuff 3500 series (PEX3500/PEH3500) Mixing Ratio: 4:1 by volume or equally approved</p> <p>Topcoat: Plascothane 9000 Polyurethane (PRT9000/PRH 9) Mixing Ratio: 6:1 by volume or equally approved</p> <p>Surface Preparation: Surfaces must be clean, dry and rust free. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) or equal approved, scrubbing with bristle brush or broom, or using Scotch Brite pads. Rinse thoroughly with tap water while brushing or hydroblast to remove all traces of Plascon Aquasolv Degreaser (GR 1) or equal approved to achieve a water break-free surface. Dry surface rapidly to prevent flash rust formation. Cleaned surface must be painted within 4 hours.</p> <p>Application - Primer coat: Apply one coat of Plascon Plascotuff 3500 Series (PEX 3500/PEH 3500) or equally approved Premix both components of the Plascon Plascotuff 3500 Series (PEX 3500/PEH 3500) using a power mixer for 3 minutes and then apply (preferably) by airless spray to a minimum DFT of 100-200 µm or WFT of 123 - 247 µm @ a theoretical spread rate of 8.1 m<sup>2</sup>/litre. Allow 16 hours to dry at low temperatures (i.e. 10°C - Caution: will not cure adequately below 10°C. For maximum performance curing temperature should be 3°C above dewpoint). Allow to dry for 5 hours @</p>			R
	<b>Carried Forward</b>			
	<p>Section No. 3 Bill No. 8 Covered Parking and Walkways <b>COEGA</b></p>			

	<p style="text-align: center;"><b>Brought Forward</b></p> <p>23°C. If using roller application : Multiple coats are required by roller to achieve desired DFT as roller application is typically @ 75 - 100 µm WFT. If using spray application : Spray Nozzle tip: 17-21 thou. and Nozzle Pressure: 172-207 bar (2500 - 3000 psi).</p> <p>Application - Finishing coat: Mix base and hardener thoroughly in a 6:1 ratio by volume before use. Apply two full coats of Plascon Plascothane 9000 Polyurethane (PRT9000/PRH 9) or equally approved to obtain full obliteration. Allow 10 hours drying between coats. Always maintain a wet edge and avoid downing tools during the application process to prevent lap marks and variances in colour or texture. Work from corner to corner, or from a natural cut off point to another. Do not attempt touch ups, but redo complete panels.</p>		R	
15	Columns, beams, purlins, etc	kg	4 088	
	<p style="text-align: center;"><b>Carried Forward to Summary of Section No. 3</b></p> <p>Section No. 3                  Bill No. 8                  Covered Parking and Walkways  <b>COEGA</b></p>		R	

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 9</u></b></p> <p><b><u>RETAINING WALLS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the Project Manager and that tenderers should allow in their rates for such protection.</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3 Bill No. 9 Retaining Walls <b>COEGA</b></p>			<p style="text-align: right;">R</p>

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3  Bill No. 9  Retaining Walls  <b>COEGA</b></p>		R	

Brought Forward

R

**Bulking**

No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.

**Classes of excavation**

Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:

***Soft and intermediate excavation as soft excavation***

***Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.***

**Prescribed density tests on filling**

Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.

**Water, etc.**

The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust

**Damage to persons or property**

The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.

Carried Forward

R

Section No. 3  
Bill No. 9  
Retaining Walls  
**COEGA**

**Brought Forward**

**Visit the site**

Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.

R

**Carried Forward**

Section No. 3  
Bill No. 9  
Retaining Walls  
**COEGA**

R

Brought Forward				R
<b><u>RETAINING WALLS</u></b>				
<b><u>Excavation in earth not exceeding 2m deep</u></b>				
1	Trenches	m3	23	
<b><u>Extra over all excavations for carting away</u></b>				
2	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>				
3	Sides of trench and hole excavations not exceeding 1,5m deep	m2	38	
<b><u>G7 Quality earth filling material supplied by the contractor compacted to 95% Mod AASHTO density</u></b>				
4	Backfilling to trenches, holes, etc	m3	3	
5	Behind retaining walls	m3	86	
<b><u>Coarse river sand filling supplied by the contractor:</u></b>				
6	Behind retaining walls	m3	9	
<b><u>30MPa/19mm reinforced concrete cast against excavated surfaces</u></b>				
7	Strip footings	m3	23	
<b><u>"Loffelstein" or equal approved precast concrete interlocking planter blocks finished smooth on exposed surfaces</u></b>				
8	Retaining structure with stepped face and curves as required to suit slopes, type L500 interlocking planter blocks laid with horizontal bed joints and filling the blocks with garden soil lightly tamped as the work proceeds	m2	58	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 9 Retaining Walls <b>COEGA</b>				

Brought Forward			R
<b><u>Agricultural Drains</u></b>			
9	Bidim U14 or other approved geofabric sheeting wrapped around stone filling of agricultural / subsoil drain.	m2	92
10	19mm stone around agricultural drain pipe (pipe elsewhere measured)	m3	10
11	100mm Diameter agricultural drainpipe laid to falls	m	48
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 9			
Retaining Walls			
<b>COEGA</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 10</u></b></p> <p><b><u>LANDSCAPING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.</p>			
	<p><b>Carried Forward</b></p>		<p>R</p>	
	<p>Section No. 3                      Bill No. 10                      Landscaping  <b>COEGA</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3                  Bill No. 10                  Landscaping  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 10          Landscaping  <b>COEGA</b></p>		R	

**Brought Forward**

**Visit the site**

Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.

R

**Carried Forward**

Section No. 3  
Bill No. 10  
Landscaping  
**COEGA**

R

Brought Forward			R
<b><u>PLANTING</u></b>			
<b><u>Decompaction</u></b>			
1	Decompaction for trees (0.5m3/tree)	m3	36
2	Decompaction on all plant areas 150mm deep.	m3	86
<b><u>Earthworks and Soil Preparation</u></b>			
<b><u>Provision for top soil</u></b>			
3	100mm layer over planting areas	m3	57
4	25mm Layer over lawn areas	m3	24
5	0.34 m3 per tree hole	m3	24
<b><u>Provision for Compost import and spreading in plant areas</u></b>			
6	30 mm deep over planting areas	m3	17
7	0.17 m3 per tree hole	m3	12
<b><u>Provision for Fertilizers</u></b>			
8	Super phosphate - 100 g/m2 in planting areas	kg	57
9	Super phosphate - 375 g/per tree hole	kg	27
Fertilizer 4:1:1 for lawns			
10	40 g/m2 in lawn areas	kg	38
Mixture 2:3:2 over planting			
11	50 g/m2 in planting areas	kg	29
12	100 g/per tree hole	kg	7
Carried Forward			R
Section No. 3 Bill No. 10 Landscaping <b>COEGA</b>			

<b>Brought Forward</b>			R
<u>Provision for Mulching</u>			
13	30mm bark chip mulch layer in planting areas and for vegetable garden pathway.	m3	17
14	50mm bark chip mulch layer in planting areas and for vegetable garden pathway.	m3	6
<b><u>TREES</u></b>			
<b><u>Provision for Trees</u></b>			
15	Tree out of 200 litres each	No	15
16	Tree out of 100 litres each	No	10
<b><u>Provision for planting trees</u></b>			
17	Shrubs and ground covers out of 40 litre containers	No	50
18	Shrubs and ground covers out of 10 litre containers	No	30
19	Shrubs and ground covers out of 4 litre containers	No	30
20	Shrubs, ground covers and vegetable plugs.	No	20
21	New lawn sod ( Instant lawn) Cynodon dactylon (Couch grass)	m2	1 000
<b><u>ARTIFICIAL LAWN</u></b>			
<b><u>Supply and deliver all material and equipment required for the installation of artificial lawn.</u></b>			
<b><u>Material: 25mm Knights bridge (provide sample for approval)</u></b>			
<b><u>Inclusive of required excavation, ground preparation and all relevant works.</u></b>			
22	Total synthetic lawn	m2	38
<b>Carried Forward</b>			R
Section No. 3 Bill No. 10 Landscaping <b>COEGA</b>			

<b>Brought Forward</b>			R
<b><u>SUNDRIES</u></b>			
23	550mm Diameter Vanstone or equivalent approved pre-cast concrete tree rings for all trees which are positioned in lawn area	No	25
24	Bicycle rack: Olympic cycles Holdfast 5 Bike Floor stand (or similar) to be cut to accommodate 3 bikes. To be fastened with bolts to the paving.	No	2
25	Wilson stone Fairground Swing litter bin, or similar approved, with lug welded on one side to prevent swinging in both directions.	No	5
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 10			
Landscaping			
<b>COEGA</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 11</u></b></p> <p><b><u>BOREHOLE</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The Model Preambles for Trades (2017 Edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles.</p> <p><b><u>NOTE:</u></b></p> <p>This document must be read and familiarised with in conjunction with the <b>Architects drawings</b> as annexed to this document and tenderers must make allowance in their rates for these specifications.</p> <p>No claims arising out of failure to do so will be entertained.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Protection of works</u></b></p> <p>Please note that all existing works, finishes, etc. are to be protected to the satisfaction of the principal agent and that tenderers should allow in their rates for such protection.</p>			
	<p><b>Carried Forward</b></p>		<p>R</p>	
	<p>Section No. 3                      Bill No. 11                      Borehole Installation  <b>COEGA</b></p>			

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Definitions</u></b></p> <p>The descriptions and units of quantities below are measured generally in terms to suit this project. Where these descriptions and units are in conflict with the payment provisions of SABS 1200, the descriptions and units as measured below shall apply and no claims in this regard shall be entertained. Should the tenderer have any queries, he should clarify same with either the engineer or quantity surveyor prior to submission of tender. Silence on any issue will be deemed to be acceptance thereof.</p> <p><b><u>Blasting</u></b></p> <p>No Guarantee is given or implied that blasting will be allowed, but should this method of removal be necessary and permissible, the contractor shall assume all responsibility and comply with all the conditions laid down in the Government and Local Government regulation and it should allow for current construction work on the neighbouring property.</p> <p><b><u>Dump site</u></b></p> <p>Where "remove from" or "spoil" occurs in items it shall include for all loading, offloading and carting away from the site to a suitable dumping site to be found by the contractor and the contractor shall pay all fees, etc in this regard.</p> <p><b><u>Carting away of excavated material</u></b></p> <p>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.</p> <p><b><u>Imported filling</u></b></p> <p>Descriptions of imported filling material shall be deemed to include loading material onto trucks from borrow pits or suppliers and hauled and deposited onto the site.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3                  Bill No. 11                  Borehole Installation  <b>COEGA</b></p>		R	

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Bulking</u></b></p> <p>No allowance has been made in the measurements for bulking and no claims in this regard shall be entertained.</p> <p><b><u>Classes of excavation</u></b></p> <p>Classes 3.1.2(b), (d) and (e) will be deemed not to apply to this contract. All excavations will be classified by the Engineer as:</p> <p><b><i>Soft and intermediate excavation as soft excavation</i></b></p> <p><b><i>Hard rock excavations, which will include unweathered boulders exceeding 20m<sup>3</sup>, and will also include reinforced concrete footing which, in the Engineer's opinion, cannot be removed as part of normal excavations.</i></b></p> <p><b><u>Prescribed density tests on filling</u></b></p> <p>Prescribed density testing is only to be done on written request from Engineer. Provision for normal density tests must be included in the filling or compaction items.</p> <p><b><u>Water, etc.</u></b></p> <p>The Contractor shall allow in his rates for watering the works with a jet or spray from a hose sufficiently to prevent any nuisance from dust</p> <p><b><u>Damage to persons or property</u></b></p> <p>The Contractor will be held responsible for any damage to persons or property by virtue of his operations and is responsible for providing all necessary barriers, signs, etc.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 3  Bill No. 11  Borehole Installation  <b>COEGA</b></p>		R	

**Brought Forward**

**Visit the site**

Tenderers are advised to visit the site before submitting this tender and to acquaint themselves with the nature and extent of the work to be done and value of recoverable materials which are not to be re-used or handed over to the client. Claims due to the fact that the Tenderers have not visited the site shall not be entertained.

R

**Carried Forward**

Section No. 3  
Bill No. 11  
Borehole Installation  
**COEGA**

R

Brought Forward			R	
<b><u>DRILLING</u></b>				
1	Drill 165mm diameter borehole not exceeding 120 meter deep, with 30 meters of steel casing. The borehole shall include sanitary seal and concrete collar to prevent vandalism.	No	2	
<b><u>YIELDING</u></b>				
2	Provide yield testing.	No	2	
<b><u>BUDGETARY ALLOWANCES</u></b>				
3	Allow the sum of R60 000.00 Sixty Thousand for hydro geological supervision, analyses and reporting.	Item	1.00	60 000.00
				60 000.00
<b>Carried Forward to Summary of Section No. 3</b>				
				R
Section No. 3				
Bill No. 11				
Borehole Installation				
<b>COEGA</b>				

Bill No	SECTION SUMMARY - External Works	Page No	Amount
1	Fencing	188	
2	Storm Water Installation	195	
3	Sewer Installation	202	
4	Septic Tank	210	
5	Water Installation	219	
6	Water Harvesting	224	
7	Parking and Walkways	232	
8	Covered Parking and Walkways	240	
9	Retaining Walls	246	
10	Landscaping	253	
11	Borehole Installation	258	
<b>Carried to Final Summary</b>			
Section No. 3 <b>COEGA</b>			R

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 1</u></b></p> <p><b><u>SECTION A: ADDITIONAL PRELIMINARY CLAUSES FOR SOCIAL AND ECONOMIC DELIVERABLES</u></b></p> <p>The following clauses are additional to, or augment the clauses contained in sections "A, B, C, D, E, F and the tender document" of these preliminaries.</p> <p>Calculations below shall be based on: project duration @ 24 months and employment @ 80 personnel</p> <p><b><u>NOTE: THERE IS A PROVISIONAL SUM FOR THE BELOW ITEMS. THE ITEMS SHALL BE ADMINISTERED ON A PROVEN COST BASIS USING THE PROVISIONAL SUM ITEM UNDER THE PROVISIONAL SUM SECTION. THE TENDERER IS TO NOTE THAT THE ITEMS BELOW ARE NOT TO BE PRICED BUT ARE FOR INFORMATION PURPOSES ONLY</u></b></p> <p><b><u>NOTE: DO NOT PRICE THE FOLLOWING ITEMS ON THIS BILL ONLY</u></b></p> <p><b><u>A1 EMPLOYMENT OF LOCAL RESOURCES</u></b></p>			
1	Main contractor to conduct a detailed labour risk assessment	Item	1.00	For Information
	<p><b><u>A2 INDUCTIONS</u></b></p>			
2	All project personnel attend Induction presentations on a fully paid time basis	Item	1.00	For Information
	<p><b><u>A3 SITE EMPLOYMENT RELATIONS PRACTITIONER</u></b></p>			
3	Employment Relations Practitioner remuneration	Item	1.00	For Information
4	13th cheque	Item	1.00	For Information
	<b>Carried Forward</b>			R
	<p>Section No. 4                      Bill No. 1                      Social &amp; Economic Deliverables  <b>COEGA</b></p>			

Brought Forward			R	
5	All associated other costs, including tools of the trade, safety equipment etc.	Item	1.00	For Information
<b><u>A4 COMMUNITY LIAISON OFFICER</u></b>				
6	CLO remuneration	Item	1.00	For Information
7	13th cheque	Item	1.00	For Information
8	All associated other costs, including tools of the trade, safety equipment etc.	Item	1.00	For Information
<b><u>A5 TRAINING AND DEVELOPMENT INTERVENTIONS TO ACHIEVE FULL COMPLIANCE TO THE CIDB CONTRACT SKILLS DEVELOPMENT GOAL (CSDG)</u></b>				
<p>The contractor shall achieve the CSDG (per Government Gazette Vo.661 of 3 July 2020; No. 43495) by providing opportunities to learners requiring structured workplace learning, in order for the contractor to comply to the requirements of the cidb B.U.I.L.D. programme, by using CSDG Method 1 (mandatory) and CSDG Method 4 or any one or a combination of CSDG Method 2 or CSDG Method 3.</p> <p>The total provision for qualifying expenditure on the Contractor Skills Development Goal (CSDG) must comply with the minimum legislated percentage of contract amount, which e.g. on a General Building Contract = 0.5% of the contract amount. This provision may be discounted off CSDG Method 1 by the qualifying expenditures in the provision of SETA accredited Technical Training per L9. below.</p>				
<b><u>A5.1 STRUCTURED WORKPLACE LEARNING OPPORTUNITIES THAT RESULT IN THE ATTAINMENT OF A PART OR A FULL OCCUPATIONAL QUALIFICATION (CSDG METHOD 1)</u></b>				
9	All associated training costs, including tools of the trade, consumables, safety equipment etc.	Item	1.00	For Information
Carried Forward			R	
<p>Section No. 4                      Bill No. 1                      Social &amp; Economic Deliverables  <b>COEGA</b></p>				

Brought Forward				R	
10	Wages for employed learners	Item	1.00		For Information
11	Unemployed learner stipend (to cover daily transport and meal)	Item	1.00		For Information
<p><b><u>A5.2 STRUCTURED WORKPLACE LEARNING OPPORTUNITIES FOR APPRENTICES AND/OR OTHER ARTISAN LEARNERS TOWARDS THE ATTAINMENT OF A TRADE QUALIFICATION IN THE BUILT ENVIRONMENT. (CSDG METHOD 2), (AT LEAST 60% OF THE ARTISAN LEARNERS BEING HOLDERS OF PUBLIC TVET COLLEGE QUALIFICATIONS).</u></b></p>					
12	All associated training costs, including tools, consumables, safety equipment etc.	Item	1.00		For Information
13	Apprentice / Learner wages	Item	1.00		For Information
<p><b><u>A5.3 WORK INTEGRATED LEARNING OPPORTUNITIES FOR UNIVERSITY OF TECHNOLOGY OR COMPREHENSIVE UNIVERSITY STUDENTS COMPLETING THEIR NATIONAL DIPLOMAS. (CSDG METHOD 3)</u></b></p>					
14	All associated costs, including tools, consumables, safety equipment etc.	Item	1.00		For Information
15	Learner wages	Item	1.00		For Information
<p><b><u>A5.4 STRUCTURED WORKPLACE LEARNING FOR BUILT ENVIRONMENT PROFESSION CANDIDATES TOWARDS PROFESSIONAL REGISTRATION BY A STATUTORY COUNCIL. (CSDG METHOD 4)</u></b></p>					
16	Candidate Professionals stipend cost (1 candidates ) @ 24 months.	Item	1.00		For Information
17	All associated other costs, including tools of the trade, safety equipment and consumables	Item	1.00		For Information
Carried Forward				R	
<p>Section No. 4            Bill No. 1            Social &amp; Economic Deliverables  <b>COEGA</b></p>					

Brought Forward				R
<b><u>A6 WORK READINESS &amp; LIFE SKILLS TRAINING</u></b>				
18	First Aiders	Item	1.00	For Information
19	Personal Finance & Budgeting	Item	1.00	For Information
20	Time Management & Productivity	Item	1.00	For Information
<b><u>A7 PROVIDE WORK OPPORTUNITIES TO POST GRADUATE INTERNS</u></b>				
21	Built Environment Internships stipend cost (1 intakes of 4 candidates = 4 candidates)	Item	1.00	For Information
22	All associated other costs, including tools of the trade, safety equipment and consumables	Item	1.00	For Information
<b><u>A8 TECHNICAL TRAINING</u></b>				
23	Bricklaying and Plastering	Item	1.00	For Information
24	Painting / Plumbing	Item	1.00	For Information
25	Carpentry	Item	1.00	For Information
26	Unemployed Learner Stipend: Technical Training [excludes Bricklaying and Plastering]	Item	1.00	For Information
27	Provision for adequate safety equipment for all technical training	Item	1.00	For Information
<b><u>A9 ACCOMMODATION FOR NON-LOCAL PERSONNEL</u></b>				
28	Accommodation for non-local construction personnel	Item	1.00	For Information
Carried Forward				R
Section No. 4 Bill No. 1 Social & Economic Deliverables <b>COEGA</b>				

Brought Forward			R
<b><u>A10 COMMUNITY PARTICIPATION / ENGAGEMENT</u></b>			
29	Project Support Committee (PSP) meeting costs (i.e. venue, refreshments)	Item 1.00	For Information
30	PSP community members' stipend (monthly meeting participation)	Item 1.00	For Information
<b><u>A11 ON-SITE COMMUNICATION STRUCTURES</u></b>			
31	Establishing and ensuring the proper functioning of the Labour Consultative Forum (LCF)	Item 1.00	For Information
<b><u>A12 ON-SITE COMMUNICATION STRUCTURES MAIN CONTRACTOR ENSURING FULL COMPLIANCE</u></b>			
32	Ensuring achievement of all socio-economic deliverables and full compliance to the labour management protocols on the whole project, inclusive of all subcontractors	Item 1.00	For Information
<b><u>NOTE: DO NOT PRICE AND/ OR SUM ANY ITEMS ABOVE ON THIS BILL. THERE IS A PROVISIONAL SUM FOR THIS SCOPE ON THE RELEVANT SECTION</u></b>			
<b>Carried to Final Summary</b>			R
Section No. 4 Bill No. 1 Social & Economic Deliverables <b>COEGA</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL 1</u></b></p> <p><b><u>PROVISIONAL SUMS, ETC</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>CASH DISCOUNT</u></b></p> <p>The following provisional amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional amount other than the priced value for profit and attendance as provided for. The provisional amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p> <p><b><u>PROVISIONAL SUMS AND PRIME COST AMOUNTS</u></b></p> <p>These provisional amounts contain materials to be supplied only or to be supplied and installed by specialists, or work to be executed by specialists or other persons who are selected by the contractor in consultation with the architect. Selected sub-contractors shall receive no other rights or privileges other than the rights and privileges enjoyed by any domestic sub contractor</p> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p>This work will be priced and measured in accordance with these bills of quantities</p> <p><b><u>ELECTRICAL AND MECHANICAL INSTALLATION</u></b></p>			
1	Allow the sum of R4 000 000.00 Four Million for the Electrical, Air-conditioning and Mechanical Ventilation Installation.	Item	1.00 4 000 000.00	4 000 000.00
2	Profit and attendance on last if required		%	
	<b>Carried Forward</b>			R
	<p>Section No. 5                      Bill No. 1                      Provisional sums  <b>COEGA</b></p>			

		Brought Forward		R	
<b><u>SECURITY INSTALLATION</u></b>					
3	Allow the sum of R350 000.00 Three Hundred and Fifty Thousand for the CCTV, Access Control and Fire Detection Installation.	Item	1.00	350 000.00	350 000.00
4	Profit and attendance on last if required			%	
<b><u>ICT INSTALLATION</u></b>					
5	Allow the sum of R450 000.00 Four Hundred and Fifty Thousand for the Telephone, Data & Networking, Local UPS and Public Address Systems Installation.	Item	1.00	450 000.00	450 000.00
6	Profit and attendance on last if required			%	
<b><u>MEDICAL EQUIPMENT</u></b>					
7	Allow the sum of R2 200 000.00 Two Million Two Hundred Thousand for the Medical Equipment Installation.	Item	1.00	2 200 000.00	2 200 000.00
8	Profit and attendance on last if required			%	
<b><u>MEDICAL GAS INSTALLATION</u></b>					
9	Allow the sum of R200 000.00 Two Hundred Thousand for the Medical Gas Installation.	Item	1.00	200 000.00	200 000.00
10	Profit and attendance on last if required			%	
<b><u>SIGNAGE</u></b>					
11	Allow the sum of R280 000.00 Two Hundred and Eighty Thousand for the Signage Installation.	Item	1.00	280 000.00	280 000.00
12	Profit and attendance on last if required			%	
<b><u>JOINERY INSTALLATION</u></b>					
13	Allow the sum of R150 000.00 One Hundred and Fifty Thousand for the Joinery Installation.	Item	1.00	150 000.00	150 000.00
14	Profit and attendance on last if required			%	
				R	
		<b>Carried Forward</b>			
Section No. 5 Bill No. 1 Provisional sums <b>COEGA</b>					

		Brought Forward		R	
<b><u>BOREHOLE INSTALLATION</u></b>					
15	Allow the sum of R300 000.00 Three Hundred Thousand for the Borehole Installation.	Item	1.00	300 000.00	300 000.00
16	Profit and attendance on last if required			%	
<b><u>HEALTH PLANNER</u></b>					
17	Allow the sum of R400 000.00 Four Hundred Thousand for the Health Planner.	Item	1.00	400 000.00	400 000.00
18	Profit and attendance on last if required			%	
<b><u>SOCIAL AND ECONOMIC DELIVERABLES</u></b>					
19	Allow the sum of R3 100 000.00 Three Million One Hundred Thousand for the Administration of the Social and Economic Deliverables as noted on the relevant Bills of Quantities.	Item	1.00	3 100 000.00	3 100 000.00
20	Profit and attendance on last if required			%	
<b>Carried to Final Summary</b>				R	
Section No. 5 Bill No. 1 Provisional sums <b>COEGA</b>					

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries & General	35	
2	Building Works	181	
3	External Works	259	
4	Social & Economic Deliverables	264	
5	Provisional Sums	267	
	Sub Total		R
	<b>CONTINGENCIES</b>		
	Allow the sum of R1 830 000.00 One Million Eight Hundred and Thirty Thousand for the Contingencies (for Contingencies to be used or deducted in full at the Project Manager's discretion)	Item 1.00	1 830 000.00
	Sub Total		R
	<b>ESCALATION</b>		
	Allow the sum of R200 000.00 Two Hundred Thousand for project pre-tender escalation in accordance with the program and to be administered on a proven cost basis but fixed to the allowable.	Item 1.00	200 000.00
	Allow the sum of R400 000.00 Four Hundred Thousand for project post-tender escalation in accordance with the program and to be administered on a proven cost basis but fixed to the allowable.	Item 1.00	400 000.00
	Sub Total		R
	<b>PROFESSIONAL FEES</b>		
	<b>Carried Forward</b>		R
	<b>COEGA</b>		

Section No	<b>FINAL SUMMARY</b>	Page No		Amount
	<b>Brought Forward</b>		R	
	<p>Tenderer is to price for professionally registered consultants in accordance with the tender document to be administered in accordance with the relevant council gazette.</p>			
	<p>Accordingly, the scope of services rendered by the PSP shall span <b>Stage 2 (Concept Report)</b> through to <b>Stage 7 (Close-Out)</b>, in alignment with the prescribed deliverables and governance gates outlined in the FIDPM. The total fee payable to the PSP shall be inclusive of: (1) <b>Professional fees</b> for services rendered across all stages. (2) <b>Disbursements</b>, including but not limited to: (2.1) <b>Travel and accommodation costs</b>. (2.2) <b>Time-related costs</b> such as overtime, standby, and extended site presence. (2.3) <b>Permit and training costs</b> where applicable. (3) <b>Auxiliary costs</b> necessary for the execution of duties, including stakeholder <sub>Text</sub> engagement, documentation, and reporting. This applies for all the required disciplines i.e. Architect, quantity surveyor, construction health and safety agent, civil, structural, mechanical and electrical engineers.</p> <p>The risk of costs associated with PSP's will be that of the contractor. Bidders must that adequate allowances are made in the pricing Professional Fees</p>			
	<p>Sub Total</p>	%	R	
	<p>Tax @ 15%</p>		R	
	<b>Carried to Form of Tender</b>		R	
	<b>COEGA</b>			