

# public works

Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

## CORRECTIONAL SERVICES: MEDIUM: UPGRADE OF THE EXISTING KITCHEN

AT

**GROENPUNT PRISON**

(Completion Contract)

## VOLUME 2 of 3: RETURNABLE DOCUMENTS

NAME OF BIDDER \_\_\_\_\_

CIDB No. \_\_\_\_\_

CSD SUPPLIER'S No. \_\_\_\_\_

CSD UNIQUE No. \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS  
BLOEMFONTEIN REGIONAL OFFICE  
18 PRESIDENT BRAND STREET  
BLOEMFONTEIN  
9300

JANUARY 2024

	PAGE No's.
<b>VOLUME 2: RETURNABLE DOCUMENTS</b>	
PA-09 (EC) : List of Returnable Documents	3 Pages
DPW-07 (EC) : Form of Offer and Acceptance	4 Pages
<b>Bills of Quantities</b>	
<b>SECTION 1 : PRELIMINARIES</b>	
Preliminaries	1 - 28
Summary of Section 1	29 - 32
<b>SECTION 2 : BUILDING WORKS</b>	
Alterations	23 - 36
Foundations	37
Concrete, Formwork & Reinforcement	38 - 40
Masonry	41
Waterproofing	42 - 44
Roof Coverings	45
Ceilings, Partitions & Access Flooring	46
Joinery Fittings	47
Metalwork	48 - 51
Plastering	52
Plumbing & Drainage	53 - 55
Glazing	56
Paintwork	57 - 59
Summary of Section 2	60
<b>SECTION 3 : EXTERNAL WORKS</b>	
Plumbing and Drainage	61 - 66
External Works	67 - 71
Summary of Section 3	72
<b>SECTION 4 : ELECTRICAL INSTALLATION</b>	
Electrical Installation	74 - 80
Summary of Section 4	81
<b>SECTION 5 : MECHANICAL INSTALLATION</b>	
Mechanical Installation	82 - 94
Summary of Section 5	95
<b>FINAL SUMMARY</b>	
	96
PA-11 : Bidders Disclosure	3 Pages
PA-15.1 : Resolution of Board of Directors	2 Pages
PA-15.2 : Resolution of Board of Directors to enter into Consortia or Joint Ventures	2 Pages
PA-15.3 : Special Resolution of Consortia or Joint Ventures	3 Pages
PA-16 : Preference Points Claim Form of the Preferential Procurement	
Regulations - 2022	
DPW-09 (EC) : Particulars of Tenderer's Projects	10 Pages
Declaration - EPWP Programme	2 Pages
PA-40 : Declaration of Designated Groups for Preferential Procurement	1 Page
DPW-21 (EC) : Record of Addenda to Tender Documents	2 Pages
DPW-15 (EC) : Schedule of Proposed Sub-Contractors	1 Page
DPW-22 (EC) : Particulars of Electrical Contractor	1 Page
DPW-23 (EC) : Schedule for Imported Materials and Equipment	1 Page
Project Specific Electrical Specification	34 Pages

## **VOLUME 2: RETURNABLE DOCUMENTS**

### **T 2.1 List of Returnable Documents**



**PA-09 (EC): LIST OF RETURNABLE DOCUMENTS**

<b>Project title:</b>	<i>Groenpunt Medium Prison: Upgrading of existing kitchen and conversion from steam to electrical (Completion contract)</i>	
<b>Tender / Quotation no:</b>	BL24/002	<b>Reference no:</b> 6747/0307/26/4
<b>Receipt Number:</b>		

## 1. RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

**Note:** Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

Tender document name	Number of pages issued	Returnable document
Form of Offer and Acceptance (DPW-07 EC)	4 Pages	Yes
Submission of Bidder's disclosure (PA-11)	3 Pages	Yes
Resolution of Board of Directors (PA-15.1) (if applicable)	1 Page	Yes
Resolution of Board of Directors to enter into Consortia or JV's (PA-15.2) (if applicable)	2 Pages	Yes
Special Resolution of Consortia or JV's (PA-15.3) (if applicable)	3 Pages	Yes
Preference points claim form in terms of the Preferential Procurement Regulations 2017 (PA – 16.1)	5 Pages	Yes
Declaration Certificate for Local Production and Content for designated sectors (PA – 36 and Annexure/s C)	5	Yes
Fully completed Declaration of Designated Groups for Preferential Procurement (PA 40)	2 Pages	Yes
Registration on National Treasury's Central Supplier Database (CSD).	-	Yes
Particulars of Tenderer's Projects (DPW-09 EC)	2 Pages	Yes
Site Inspection Meeting Certificate (DPW-16 EC) (if applicable).	1 Page	N/A
Record of attending compulsory virtual bid clarification / site inspection meeting (if applicable).	1 Page	N/A
Record of Addenda to tender documents (DPW-21 EC)	1 Page	Yes
Proof of 30% Subcontracting participation and related documents in terms of the Preferential Procurement Regulations 2017 (if applicable).		
Fully completed Declaration of Designated Group for Preferential Procurement (PA40)	2 Pages	Yes

\* In compliance with the requirements of the cidd SFU Annexure G

## 2. ADDITIONAL RETURNABLE

**Note:** Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also C.2.18 of the Standard Conditions of Tender]

Tender document name	Any additional information required to complete a risk assessment ( <i>if applicable</i> )	Number of pages issued	Returnable document
Any correction to be initialled by the person authorised to sign the tender documentation as per PA 15.1 or PA 15.2 resolution of board/s of directors / or PA15.3 Special Resolution of Consortia or JVs.	Submission of applicable (PA-15.1, PA-15.2, PA-15.3): Resolution by the legal entity, or consortium / joint venture, authorising a dedicated person(s) to sign documents on behalf of the firm / consortium / joint venture.	3 Pages	Yes

**3. RETURNABLE DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT**

**Note:** Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also C.2.18 of the Standard Conditions of Tender]

#### 4. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

*(Insert a tick in the "Returnable document" column to indicate which documents must be returned with the tender)*

**Note:** Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

Tender document name	Number of pages issued	Returnable document
Schedule of proposed sub-contractors (DPW-15 EC) ( <i>if applicable</i> )	1 Page	Yes
Particulars of Electrical Contractor (DPW-22 EC) ( <i>if applicable</i> )	1 Page	Yes
Mechanical / Electrical / Security Work material and equipment schedules ( <i>if applicable</i> )	4 Pages	Yes
Schedule for Imported Materials and Equipment (DPW-23 EC) ( <i>if applicable</i> )	1 Page	Yes

Tender document name	Number of pages issued	Returnable document
Priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts)	84 Pages	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Fully priced and completed sectional summary- and final summary pages with the tender.	6 Pages	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Tender document name	Number of pages issued	Returnable document
	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No

## 5. ADDITIONAL INFORMATION THAT MAY BE REQUIRED FOR TENDER EVALUATION PURPOSES

Legal Status of Tendering Entity: If the Tendering Entity is:	Documentation to be submitted with the tender, or which may be required during the tender evaluation:
a. A close corporation, incorporated prior to 1 May 2011 under the Close Corporations Act, 1984 (Act 69 of 1984, as amended)	Copies of the Founding Statement – CK1
b. A profit company duly registered as a private company.	Copies of: i. Certificate of Incorporation – CM1; ii. Shareholding Certificates of all Shareholders of the company, plus a signed statement of the company's Auditor, certifying each Shareholder's ownership / shareholding percentage relative to the total; and/or iii. Memorandum of Incorporation in the case of a personal liability company.
c. A profit company duly registered as a private company in which any, or all, shares are held by one or more other close corporation(s) or company(ies) duly registered as profit or non-profit company(ies).	Copies of documents referred to in a. and/or b. above in respect of all such close corporation(s) and/or company(ies).
d. A profit company duly registered as a public company.	Copy of Certificate of Incorporation – CM1, and a signed statement of the company's Secretary or Auditor confirming that the company is a public company.
e. A non-profit company, incorporated in terms of Section 10 and Schedule 1 of the Companies Act, 2008 (Act 71 of 2008, as amended).	Copies of: i. the Founding Statement – CK1; and ii. the Memorandum of Incorporation setting out the object of the company, indicating the public benefit, cultural or social activity, or communal or group interest.
f. A natural person, sole proprietor or a Partnership	Copy(ies) of the Identity Document(s) of: i. such natural person/ sole proprietor, or each of the Partners to the Partnership.
g. A Trust	Deed of Trust duly indicating names of the Trustee(s) and Beneficiary (ies) as well as the purpose of the Trust and the mandate of the Trustees.

## Signed by the Tenderer

Name of representative	Signature	Date

## DPW-07 (EC): FORM OF OFFER AND ACCEPTANCE

Project title:	<b>Groenpunt Prison: Upgrading of existing kitchen and conversion from steam to electrical (Completion contract)</b>		
Tender / Quotation no.:	BL24/002	Reference no.:	6747/0307/26/4
<b>OFFER</b>			
<p>The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:</p> <p><b>Groenpunt Medium Prison: Upgrading of the existing kitchen and conversion from steam to electrical (Completion contract)</b></p>			
<p>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.</p>			
<p>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 Contractor 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.</p>			
<p><b>THE TOTAL OFFER INCLUSIVE OF ALL APPLICABLE TAXES</b> (All applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies) <b>IS:</b></p>			
Rand (in words):	.....		
Rand in figures:	R .....		
<p>The amount in words takes precedence over the amount in figures. The award of the tender may be subjected to further price negotiation with the preferred tenderer(s). The negotiated and agreed price will be considered for acceptance as a <b>firm and final offer</b>.</p>			
<p>This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the tender data, whereupon the Tenderer becomes the party named as the Contractor in the conditions of contract identified in the contract data.</p>			
<p><b>THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY:</b> (cross out block which is not applicable)</p>			
<p>Company or Close Corporation: .....</p>			
<p>And: Whose Registration Number is: .....</p>			
<p>And: Whose Income Tax Reference Number is: .....</p>			
<p>CSD supplier number: .....</p>			
<p>Natural Person or Partnership: .....</p>			
<p>Whose Identity Number(s) is/are: .....</p>			
<p>Whose Income Tax Reference Number is/are: .....</p>			
<p>CSD supplier number: .....</p>			

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention" For Internal & External Use

Tender / Quotation no: BL24/002

**AND WHO IS (if applicable):**

Trading under the name and style of: .....

<b>AND WHO IS:</b>	
Represented herein, and who is duly authorised to do so, by:	Note:
Mr/Mrs/Ms: .....	A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer.
In his/her capacity as: .....	

**SIGNED FOR THE TENDERER:**

Name of representative	Signature	Date
------------------------	-----------	------

**WITNESSED BY:**

Name of witness	Signature	Date
-----------------	-----------	------

This Offer is in respect of: (Please indicate with an "X" in the appropriate block)  
 The official documents .....  
 The official alternative .....  
 Own alternative (only if documentation makes provision therefore) .....

(N.B.: Separate Offer and Acceptance forms are to be completed for the main and for each alternative offer)

**SECURITY OFFERED:**

- (a) the Tenderer accepts that in respect of contracts up to R1 million, a payment reduction\*\* of 5% of the contract value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below:
  - (1) cash deposit of 10 % of the Contract Sum (excluding VAT)  Yes  No
  - (2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT)  Yes  No
  - (3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)  Yes  No
  - (4) cash deposit of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)  Yes  No
  - (5) fixed construction guarantee of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)  Yes  No

N.B. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Insurance Act [Long-Term Insurance Act, 1998 (Act 52 of 1998) or Short-Term Insurance Act, 1998 (Act 35 of 1988)] or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention" For Internal & External Use



Tender / Quotation no: BL24/002

The Tenderer elects as its *domicilium citandi et executandi* in the Republic of South Africa, where any and all legal notices may be served, as (physical address):  
.....

**Other Contact Details of the Tenderer are:**

Telephone No. .... Cellular Phone No. ....  
Fax No. ....  
Postal address ....  
Banker ..... Branch. ....  
Registration No of Tenderer at Department of Labour .....  
C1DB Registration Number: .....

**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 Agreement and contract data, (which includes this agreement)  
Part C2 Pricing data  
Part C3 Scope of work  
Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender 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 agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The Tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation 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.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original 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/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

**For the Employer:**

Name of signatory	Signature	Date

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention" For Internal & External Use



Tender / Quotation no: BL24/002

Name of Organisation:	Department of Public Works and Infrastructure		
Address of Organisation:			

**WITNESSED BY:**

Name of witness	Signature	Date

**Schedule of Deviations**

**1.1.1. Subject:**

Detail:

**1.1.2. Subject:**

Detail:

**1.1.3. Subject:**

Detail:

**1.1.4. Subject:**

Detail:

**1.1.5. Subject:**

Detail:

**1.1.6. Subject:**

Detail:

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

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

\*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer".  
\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"  
For Internal & External Use

## **C2.2** **Bills of Quantities**

**SECTION 1:  
PRELIMINARIES**

## SECTION 1

### PRELIMINARIES

#### MEANING OF TERMS "TENDER / TENDERER"

Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

#### BUILDING AGREEMENT AND PRELIMINARIES

The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described to be read in conjunction with the **Contract Data** issued with the tender.

The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities / lump sum document, amended as hereinafter described

The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause

The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only

Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"

Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents

#### TENDERER'S SELECTIONS

Before submission of his tender the contractor is to complete the tenderer's selections in the **contract data for organs of state and other public sector bodies**

#### STRUCTURE OF THIS PRELIMINARIES BILL

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

Section B : A recital of the headings of the individual clauses in the aforementioned JBCC General Preliminaries

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

#### PRICING OF PRELIMINARIES

Should the contractor select Option A in the **contract data for organs of state and other public sector bodies** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

## SECTION 1: PRELIMINARIES

### Collection

Effective date: 20 July 2022

Each item Carried to

## PRICING OF BILLS OF QUANTITIES

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

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

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

### VALUE ADDED TAX

Provision is made in the summary page of these **bills of quantities** / lump sum document for the inclusion of Value Added Tax (VAT)

## SECTION A: PRINCIPAL BUILDING AGREEMENT

### INTERPRETATION

### DEFINITIONS AND INTERPRETATION

#### A1.0 Clause 1.0

**The following definitions replace corresponding definitions or are added to the definitions in the JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), whatever the case may be**

**ADVERSE WEATHER CONDITIONS:** Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that are not in the norm for the area where the construction takes place and during which no work is possible on site

**AGREEMENT:** The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties

**CONSTRUCTION PERIOD:** The period commencing on the date of possession of the site by the contractor and ending on the date of **practical completion**

**CONTRACT PERIOD:** The period commencing on the date of the letter of acceptance and ending on the date of final completion

**COST FLUCTUATION** shall mean contract price adjustment provision ( CPAP ) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule

**DEFAULT INTEREST:** No Clause

## SECTION 1: PRELIMINARIES (SECTION A)

Each Item Carried to Collection

Effective date: 20 July 2022

**GUARANTEE FOR CONSTRUCTION:** A security in terms of the DPW's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD]

**INTEREST:** The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) as amended, calculated as simple interest, in respect of debts owing to the State, and will be the rate as published by the Minister of Justice and Correctional Services from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) as amended, calculated as simple interest, in respect of debts owing by the State

**LETTER OF ACCEPTANCE:** The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer

**PAYMENT CERTIFICATE:** A certificate issued at regular agreed intervals [CD] by the principal agent to the parties certifying the amount due and payable in terms of Clause 25.3

**PRINCIPAL AGENT:** The person or entity appointed by the employer and named in the contract data for organs of state and other public sector bodies. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by the employer's representative as named in the contract data for organs of state and other public sector bodies

**TARGETED SUBCONTRACTORS:** Subcontractors that must be appointed to a total of 30% or more of the contract sum, by the contractor, projects with a contract sum of the amount determined by the Minister in terms of the latest Preferential Procurement regulations, as may be amended from time to time.

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

Item

## A2.0 LAW, REGULATIONS AND NOTICES

### Clause 2.0

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

Item

### A3.0 OFFER AND ACCEPTANCE

#### Replace Clause 3.3 with the following:

This agreement shall come into force on the date of letter of acceptance and continue to be of force and effect until the end of the latent defects liability period [22.0] notwithstanding termination [28.0] or the certification of final completion [21.0] and final payment [25.0]

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

Item

## A4.0 CESSION AND ASSIGNMENT

### Clause 4.0

#### Ref Clause 6.7 [CD] - Clause 4.2

#### Replace Clause 4.3 with the following:

Where a contractor cedes any right or any monies due to or to become due under this agreement as security in favour of a financial institution, the prior written consent of the employer, which consent shall not be unreasonably withheld, must be obtained

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

Item

## SECTION 1: PRELIMINARIES (SECTION A)

### Each Item Carried to Collection

Item	R	C
<b>DOCUMENTS</b>		
Clause 5.0		
<b>Replace last sentence of Clause 5.2 with the following:</b> The original signed agreement shall be held by the Employer		
<b>Replace Clause 5.4 with the following:</b> The Bills of Quantities shall not be used as a specification of material and goods or methods unless so instructed by the Principal Agent. The contractor may not use the Bills of Quantities for purpose of ordering material. All dimensions and quantities must be determined on site before ordering. In the event of discrepancy between the drawings and Bills of Quantity, the drawings shall take preference		
<b>Replace Clause 5.5 with the following:</b> The parties may publish or disclose on any platform only the contract scope and contract amount		
F:..... V:..... T:.....	Item	
<b>A6.0 EMPLOYER'S AGENTS</b>		
Clause 6.0		
<b>Add the following as Clause 6.7:</b> Replace Clause 6.5 with the following: Where the principal agent and/or an agent fails to act or is unable to act or ceases to be the principal agent or an agent in terms of this agreement, the employer shall appoint another principal agent and/or an agent		
In terms of the clauses listed hereunder, the employer has retained its authority and has not given a mandate to the principal agent, notwithstanding other provisions in the contract. The employer shall sign all documents in relation to clauses 4.2, 14.1.4, 14.4.1, 14.6, 15.1.4, 15.4.1, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12		
F:..... V:..... T:.....	Item	
<b>A7.0 DESIGN RESPONSIBILITY</b>		
Clause 7.0		
<b>Replace first sentence of Clause 7.2 with the following:</b> Any design responsibility undertaken by a subcontractor shall not devolve on the contractor except for items that require specific component design and or compatibility design and or shop drawings and or the assembly thereof		
F:..... V:..... T:.....	Item	
<b>A8.0 INSURANCES AND SECURITIES</b>		
Clause 8.0		
<b>Replace Clause 8.4 with the following:</b> The contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary		

## SECTION 1: PRELIMINARIES (SECTION A)

Each Item Carried to Collection

Effective date: 20 July 2022

Item	R	C
F..... V..... T.....		
<b>A9.0 INDEMNITIES</b>		
Clause 9.0		
<b>Add the following to the end of the first sentence of Clause 9.2.7:</b>		
<b>‘.... due to no fault of the contractor</b>		
9.2.9 No Clause		
9.2.10 No Clause		
<b>Add the following as clause 9.3:</b>		
The employer's rights to claim damages for the contractor's omissions and actions will not be affected.		
F..... V..... T.....	Item	
<b>A10.0 INSURANCES</b>		
Clause 10.0		
<b>Add the following as Clause 10.1.5.1:</b>		
<b>Hi Risk Insurance</b>		
In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply		
<b>Add the following as Clause 10.1.5.1.1 Damage to the works</b>		
The contractor shall, from the date of possession of the <b>site</b> until the date of the <b>certificate of practical completion</b> , bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the <b>works</b> consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the <b>works</b> as he may deem necessary		
When so instructed to do so by the <b>principal agent</b> , the <b>contractor</b> shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the <b>works</b> and to rebuild, restore, replace and/or repair the <b>works</b> , at the <b>contractor's</b> own costs		
<b>10.1.5.1.2 Injury to persons or loss of or damage to property</b>		
The contractor shall be liable for and hereby indemnifies and holds harmless the <b>employer</b> against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above		
The contractor shall be liable for and hereby indemnifies the <b>employer</b> against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable property, or personal property, or property contiguous to the <b>site</b> , whether belonging to or under the control of the <b>employer</b> or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract		

## SECTION 1: PRELIMINARIES (SECTION A)

Each Item Carried to Collection

**10.1.5.1.3 Replace Clause with the following:**  
 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of letter of acceptance, but before commencement of the works, submit to the employer proof of such insurance policy.

**10.1.5.1.4 Replace Clause with the following:**

The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole

**10.2 Replace Clause with the following:**

Where practical completion in sections is required [20.0], or where the works is for alterations and additions, the contractor shall effect and keep in force contract works insurance [10.1.1], supplementary insurance [10.1.2], public liability insurance [10.1.3] and where applicable, removal of lateral support insurance [10.1.4] and other insurances [10.1.5] in favour of the employer as beneficiary

**10.6 No Clause**

**Add the following as Clause 10.11**

In the event that an insurer dispute the amount of the claim to be paid to the employer, the contractor shall be liable to the employer for the difference between the claim (as determined by the employers QS appointed on the project) made by the employer and the amount that the insurer is willing to pay

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

Item

A11.0

**SECURITIES**

**Add the following as to the relevant related Clauses as follows:**

**Add the following to Clause 11.1:**

In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT).

In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within fifteen (15) working days from commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected.

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5

11.1.1 No Clause

11.1.2 No Clause

11.2.2 No Clause

11.3 No Clause

**SECTION 1: PRELIMINARIES (SECTION A)**

Effective date: 20 July 2022

Each Item Carried to Collection

**Replace Clause 11.4.1 with the following:**  
Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of 25.12.6 to 25.12.10.

11.5 No Clause

11.6 No Clause

11.7 No Clause

11.8 No Clause

11.9 No Clause

11.10 No Clause

**Add the following as Clause 11.11:**

Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

**Add the following as Clause 11.11.1:**

The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

**Add the following as Clause 11.11.2:**

The employer shall be entitled to recover expense and loss from the cash deposit in terms of Clause 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.

**Add the following as Clause 11.11.3:**

Within fifteen (15) working days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT) and refund the balance to the contractor

**Add the following as Clause 11.11.4:**

Within fifteen (15) working days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor.

**Add the following as Clause 11.11.5:**

On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.

**Add the following as Clause 11.11.6:**

The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party.

**Add the following as Clause 11.12:**  
Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:

**Add the following as Clause 11.12.1:**

The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

## SECTION 1: PRELIMINARIES (SECTION A)

### Each Item Carried to Collection

**Add the following as Clause 11.12.2:**  
The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender.

**Add the following as Clause 11.12.3:**

The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring.

**Add the following as Clause 11.12.4:**

Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee.

**Add the following as Clause 11.13:**

Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

**Add the following as Clause 11.13.1:**

The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT).

**Add the following as Clause 11.13.2:**

The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion.

**Add the following as Clause 11.13.3:**

The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring.

**Add the following as Clause 11.13.4:**

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5.

**Add the following as Clause 11.13.5:**

Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or from both.

**Add the following as Clause 11.14.1:**

Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:

**Add the following as Clause 11.14.2:**

The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to submit a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

**Add the following as Clause 11.14.3:**

Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor.

**Add the following as Clause 11.14.4:**

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5.

**Add the following as Clause 11.14.5:**

Where the employer has a right of recovery against the contractor in terms of 27, the employer may recover from the payment reduction or cash deposit or from both.

## SECTION 1: PRELIMINARIES (SECTION A)

**Add the following as Clause 11.15:**  
 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected.

**Add the following as Clause 11.15.1:**

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.6 to 25.12.10.

**Add the following as Clause 11.15.2:**

The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor.

**Add the following as Clause 11.16:**

Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement.

**Add the following as Clause 11.17:**

Should the contractor fail to furnish the security in terms of 11.2 the employer, in his sole discretion, and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT).

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

Item

## A12.0 OBLIGATIONS OF THE PARTIES

Clause 12.0

12.1.1 No Clause

**Replace Clause 12.1.5 with the following:**

Give possession of the site to the contractor within ten (10) working days after approval of the Health and Safety Plan or the issue of a construction permit by the Department of Labour, if applicable, after the contractor complied with the terms of 12.2.22

12.1.6 No Clause

12.1.8 No Clause

**Replace Clause 12.2.2 with the following:**

The priced Bills must be submitted to the Employer within fourteen (14) calendar days from date of request. Where the priced document contains errors or discrepancies and/or prices considered by the employer or principal agent to be imbalanced or unreasonable the employer or principal agent and the contractor shall adjust such prices without any change to the contract sum

**Replace Clause 12.2.5 with the following :**  
 Effect and keep in force insurances in favour of the employer as beneficiary where the contractor is responsible for providing insurances [10.0) [CD]

**Replace Clause 12.2.13 with the following:**  
 Designate a competent person full time on site to continuously administer and control the works on site and to receive and implement notices and contract instructions on behalf of the contractor

**Add the following as Clause 12.2.22:**

## SECTION 1: PRELIMINARIES (SECTION A)

Each Item Carried to Collection

Item

Within fourteen (14) working days of the date of the letter of acceptance submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

**Add the following as Clause 12.2.23:**

The contractor shall within reasonable time inform the agents regarding inspection of the works before covering / closing [B 12.0]

#### Offices

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times [12.2.18]

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

Item

#### Main notice board

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering [12.2.18]

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

Item

#### A13.0 SETTING OUT

Clause 13.0

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

Item

#### A14.0 NOMINATED SUBCONTRACTORS

Clause 14.0

Ref Clause 6.7 [CD] - Clause 14.1.4

14.1.5 No Clause

Replace "principal agent" with "employer" [6.7 [CD]] in Clause 14.4.1

Ref Clause 6.7 [CD] - Clause 14.6

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

Item

#### A15.0 SELECTED SUBCONTRACTORS

Clause 15.0

Ref Clause 6.7 [CD] - Clause 15.1.4 & Clause 15.5

### SECTION 1: PRELIMINARIES (SECTION A)

Effective date: 20 July 2022

10

Each Item Carried to Collection

Version 2022/04

R

C

Item	R	C
15.1.5 No Clause		
<b>Replace Clause 15.1.2 with the following:</b> The principal agent shall call for tenders from a list of tenderers agreed between the contractor and the employer		
Replace "principal agent" with "employer" [6.7 [CD]] in Clause 15.4.1		
F:..... V:..... T:.....	Item	
<b>DIRECT CONTRACTORS</b>		
A16.0 Clause 16.0		
F:..... V:..... T:.....	Item	
<b>CONTRACT INSTRUCTIONS</b>		
A17.0 Clause 17.0		
<b>Replace Clause 17.4 with the following:</b> The contractor shall comply with and duly execute all contract instructions except any contract instruction for additional work issued after the date of practical completion other than making good physical loss and repairing damage to the works in terms of 8.0 and 21		
<b>Add the following clause as Clause 17.6:</b> Minutes of meetings shall not constitute a site instruction unless reduced to a written contract instruction issued by the principal agent in terms of this contract / agreement.		
F:..... V:..... T:.....	Item	
<b>COMPLETION</b>		
A18.0 INTERIM COMPLETION		
Clause 18.0 F:..... V:..... T:.....	Item	
A19.0 PRACTICAL COMPLETION		
Clause 19.0		
<b>Replace Clause 19.5 with the following:</b> On issue of the only or last certificate of practical completion the employer shall be entitled to possession of the works and the site. On issue of the certificate of practical completion for a section, the employer shall be entitled to possession of such section		
<b>Add the following as Clause 19.8:</b>		
<b>WORKS COMPLETION</b>		
(1) Within seven (7) calendar days of the date of practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to achieve works completion.		
(2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list:		
(2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a		
<b>SECTION 1: PRELIMINARIES (SECTION A)</b>	Each Item Carried to Collection	
Effective date: 20 July 2022		

certificate of Works Completion to the contractor with a copy to the employer

(2)(b) Has not been satisfactorily completed, the principal agent shall forthwith identify the works completion list items that are not yet complete and inform the contractor thereof. The contractor shall repeat the procedure in terms of 19.8(2)

(3) Should the principal agent not issue a works completion list, in terms of 19.8 (1) or 19.8 (2)(b), within seven (7) calendar days from the end of the inspection period, the contractor shall notify the employer and principal agent. Should the principal agent not issue such Works Completion list within seven (7) calendar days of receipt of such notice, the employer may within seven (7) calendar days issue to the contractor a Works Completion list. Should the employer:

(3)(a) Not issue such works completion list within seven (7) calendar days, then the certificate of Works Completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date

(3b) Issue a works completion list and the work on Works Completion list not have been completed or where further defects have become apparent, the employer shall forthwith identify such items on the updated works completion list and notify the contractor. The contractor shall repeat the procedure in terms of 19.8(2)(b) until such items have been completed to the satisfaction of the employer

(4) Should the works completion list not be completed to the satisfaction of the employer within a period of twenty one (21) working days of the issue first works completion list the contractor shall be liable to a daily penalty as described in B12.0

(5) The defects liability period in terms of 21.1 shall commence with the issue or deemed issue of the certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3).

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

Item

## A20.0

### COMPLETION IN SECTIONS

Clause 20.0

**Add the following as Clause 20.2.1.A**  
A certificate of Works Completion [19.8]

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

Item

## A21.0

### DEFECTS LIABILITY PERIOD AND FINAL COMPLETION

Clause 21.0

**Replace Clause 21.1 with the following:**

The defects liability period for the works shall commence on the calendar day following the date of works completion and end at midnight (00:00) ninety (90) calendar days from the date of works completion [CD] or when work on the list for completion has been satisfactorily attended to [21.6], whichever is the later (if we use works completion)

**Replace Clause 21.6 with the following:**

On the expiry of the ninety (90) calendar days defects liability period [21.1] for items not indicated as items with an extended liability as indicated in B14 and on receipt of the contractor's notice to the principal agent

And/or

On the expiry of the defects liability period as indicated in B14, for items indicated in B14 and on receipt of the contractor's notice to the principal agent, the principal agent shall:

## SECTION 1: PRELIMINARIES (SECTION A)

### Each Item Carried to Collection

Item	R	C
<p>(1) inspect the works And within item (10) working days either issue a list for final completion detailing all outstanding work or defects that must be attended to, or rectified to achieve final completion or</p> <p>(2) issue the certificate of final completion to the contractor with a copy to the employer for that part of the works where defects liability period has expired</p>		
21.6.1 Omit Clause		
21.6.2 Omit Clause		
<p><b>Add the following as Clause 21.13:</b></p> <p>The ninety (90) calendar days defects liability period for the works [21.1] is replaced with an extended defects liability period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements in B14</p>		
<p><b>Add the following as Clause 21.14:</b></p> <p>Penalties will be applied if the items on the completion list have not been attended to within a period of ninety (90) calendar days [21.1]. If additional defect items have been added to the list during this period, then the Principal Agent and Contractor will agree on a revised completion date. Failing in achieving the revised date will result in penalties being applied.[B12.0]</p>		
<p>F:..... V:..... T:.....</p>	Item	
<p><b>LATENT DEFECTS LIABILITY PERIOD</b></p>		
Clause 22.0		
22.3.2 No Clause		
<p>F:..... V:..... T:.....</p>	Item	
<p><b>REVISION OF THE DATE FOR PRACTICAL COMPLETION</b></p>		
Clause 23.0		
<p>Ref Clause 6.7 [CD] – Clause 23.1 Ref Clause 6.7 [CD] – Clause 23.2 23.2.13 No Clause</p>		
<p><b>Replace Clause 23.3 with the following:</b></p> <p>Further circumstances that delays practical completion due to any other cause beyond the contractor's reasonable control that could not have reasonably been anticipated and provided for which the contractor may be entitled to a revision of the date for practical completion, with or without an adjustment of the contract value as determined by the Employer [6.7 CD]</p>		
<p>Ref Clause 6.7 [CD] - Clause 23.7 Ref Clause 6.7 [CD] - Clause 23.8</p>		
<p>F:..... V:..... T:.....</p>	Item	
<p><b>PENALTY FOR LATE OR NON-COMPLETION</b></p>		
Clause 24.0		
Clause 24.1		
<p><b>Replace Clause 24.1 with the following:</b></p> <p>Where the contractor fails to bring the works, or a section thereof, to practical-, works-, or final-completion by the applicable completion date [CD], or the revised applicable completion date, the contractor shall be liable to the employer for the penalty [CD]</p>		

## SECTION 1: PRELIMINARIES (SECTION A)

Each Item Carried to Collection

**Replace Clause 24.2 with the following:**  
 Where the employer elects to levy such penalty the employer, or the principal agent on instruction from the employer, shall give notice thereof to the contractor. The principal agent shall determine the penalty due from the later of the date for practical- works-, or final- completion [CD], or the revised date for practical- works-, or final- completion, up to and including the earlier of:

**Replace Clause 24.2.1 with the following:**  
 The actual or deemed date of practical- works-, or final- completion, of the works, or a section thereof [23.7.1]

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

Item

**A25.0 PAYMENT**

**Clause 25.0**

**Replace Clause 25.2 with the following:**

The principal agent shall issue at regular agreed intervals [CD] payment certificates, to the contractor with a copy to the employer, up to and including practical completion. Interim Payment certificates may be issued to the contractor between practical completion and the final payment certificate. A payment certificate may be for a nil or negative amount

**Add the following to Clause 25.3:**

25.3.12 Monthly Local content report,

25.3.13 EPWP / NYS payment register, labour reports and certified ID document of EPWP/ NYS beneficiaries, Contract between Contractor and EPWP/ NYS beneficiaries, attendance register. (if applicable)

25.3.14 Tax Invoice

25.3.15 Labour intensive report

25.3.16 Contract participation goal reports

25.5 No Clause

**Replace Clause 25.6 with the following:**

Materials and goods will only be certified and paid for upon providing proof of full payment to the supplier and proof of transfer of ownership from the supplier to the contractor by the contractor. Once paid, material and goods shall become the property of the employer and shall not be removed from site without the written authority of the Employer.

25.7.5 No clause.

**Replace Clause 25.10 with the following:**

The employer shall pay the contractor the amount stipulated in an issued payment certificate, correct in all material respects, within thirty (30) calendar days from the date of receiving the payment certificate, invoice and all other substantiating documentation for items certified in the payment certificate

**Replace Clauses 25.12 to 25.12.3 with the following:**

The value certified shall be subject to the following percentage adjustments :

(Clauses 25.12.1 to 25.12.5 shall be applicable to a contract sum up to R1 million. In the event of a contract sum more than R1 million for Options D & E (C 1.0 Securities [11.0]) Clauses 25.12.1 to 25.12.5 shall be applicable)

**SECTION 1: PRELIMINARIES (SECTION A)**

Each Item Carried to Collection

Item	R	C
25.12.1 Where a security is selected in terms of C 1.0 Securities [11.0], the value of the works in terms of 25.1 and of the materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:		
25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion		
25.12.3 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion		
25.12.4 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 26		
25.12.5 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate.		
<b>(Clauses 25.12.6 to 25.12.10 shall be applicable to a contract sum more than R1 million for Option C (C 1.0 Securities [11.0])</b>		
25.12.6 Where security is a payment reduction in term of C 1.0 Option C, value of the works in terms of 25.1 and materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:		
25.12.7 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion		
25.12.8 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion		
25.12.9 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 26		
25.12.10 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except where the amount certified is in favour of the employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate		
F..... V..... T.....	Item	
<b>ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT</b>		
A26.0		
Clause 26.0		
Ref Clause 6.7 [CD] – Clause 26.1		
Omit Clause 26.4.3		
Ref Clause 6.7 [CD] – Clause 26.7		
<b>Replace Clause 26.10 with the following:</b>		
The principal agent shall prepare the final account in consultation with the employer and issue the final account, to the contractor within sixty (60) working days of the date of practical completion		
Ref Clause 6.7 [CD] – Clause 26.12		

## SECTION 1: PRELIMINARIES (SECTION A)

Each Item Carried to Collection

Item	R	C
F:..... V:..... T:.....		
<b>A27.0 RECOVERY OF EXPENSE AND/OR LOSS</b>		
Clause 27.0		
<b>Replace Clause 27.1.2 with the following:</b> Interest due to late payment only		
<b>Replace Clause 27.1.4 with the following:</b> Interest due to late payment only		
27.1.5 No Clause		
<b>Replace Clause 27.5 with the following:</b> Where the employer decides to recover an amount due in terms of 27.2 from a construction guarantee, cash deposit or retention money held as security, the employer shall issue a written demand to the contractor before recovering the amount. Should such amount not be paid to the employer within fourteen (14) calendar days of the date-of notice by the employer, the employer may recover such an amount from the security		
<b>Add the following as Clause 27.6:</b> Where a provisional sequestration or provisional liquidation order has been granted or where an order has been granted which commences sequestration, liquidation, bankruptcy, receivership, winding-up or any similar effect, against the contractor or this agreement is cancelled in terms of 29, the employer may issue a demand to the guarantor in terms of the construction guarantee or advance payment guarantee held as security		
F:..... V:..... T:.....	Item	
<b>SUSPENSION AND TERMINATION</b>		
<b>A28.0 SUSPENSION BY THE CONTRACTOR</b>		
Clause 28.0		
28 No Clause		
28.1 No Clause		
28.1.1 No Clause		
28.1.2 No Clause		
28.1.3 No Clause		
28.1.4 No Clause		
28.1.5 No Clause		
28.2 No Clause		
28.3 No Clause		
28.4 No Clause		
F:..... V:..... T:.....	Item	
<b>A29.0 TERMINATION</b>		
Clause 29.0		
<b>Add the following as Clause 29.1.4:</b> The contractor's estate has been sequestered, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa		

## SECTION 1: PRELIMINARIES (SECTION A)

Effective date: 20 July 2022

Each Item Carried to Collection

**Add the following as Clause 29.1.5:**  
The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract

**Add the following as Clause 29.1.6:**  
Honour his obligations in terms of Clauses 10.1.5.1.3, 11.4.1 and 12.2. sub Clauses 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 22.

**Replace Clause 29.7 with the following:**

The employer, on notice to the contractor, may recover damages from the contractor from the date of termination including, but not limited to, additional costs incurred in the completion, consultant cost, rental of alternative accommodation, invitation of completion tenders, salaries of officials and safeguarding the site, of the remaining work [25.3.7; 27.1.3]

**Replace Clause 29.9 with the following:**

The employer has the right of recovery against the contractor, where applicable, [CD] from:  
The guarantee for construction (variable) until the final payment has been made;

or

The guarantee for construction (fixed) until the date of practical completion;

or

The payment reduction until the final payment is made;

or

The cash deposit made as security until the final payment is made

29.14.1 No Clause

29.14.3 No Clause

29.14.4 No Clause

29.14.5 No Clause

29.14.6 No Clause

29.14.7 No Clause

29.15 No Clause

29.16 No Clause

29.17.3 No Clause

29.17.6 No Clause

29.21.5 No Clause

29.22 No Clause

29.23 No Clause

29.25.3 No Clause

29.25.4 No Clause

## SECTION 1: PRELIMINARIES (SECTION A)

Each Item Carried to Collection

Item	R	C	
Item	F.....	V.....	T.....
29.27 No Clause			
<b>DISPUTE RESOLUTION</b>			
A30.0			
<b>DISPUTE RESOLUTION</b>			
Clause 30.0			
<b>Replace Clause 30.2 with the following:</b>			
Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation			
30.3 to 30.7.7 No Clauses			
<b>Replace Clause 30.8 with the following:</b>			
The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:			
30.8.1 No Clause			
<b>Replace Clause 30.8.2 with the following:</b>			
The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties			
<b>Replace Clause 30.8.3 with the following:</b>			
Regardless of the outcome of a mediation the parties shall bear their own costs concerning the Mediation and equally share the costs of the mediator and related expenses			
<b>Replace Clause 30.9 with the following:</b>			
Institution of Litigation shall be commenced and process served within three (3) year from the date of existence of the dispute, failing which the dispute shall lapse			
30.10 No Clause			
30.12 No Clause			
F.....	V.....	T.....	
Item			

## SECTION 1: PRELIMINARIES (SECTION A)

Effective date: 20 July 2022

18

## Each Item Carried to Collection

Version 2022/04

Item

R

C


## SECTION 1: PRELIMINARIES (SECTION A)

Effective date: 20 July 2022

19

Each Item Carried to Collection

Version 2022/04

Item	R	C
<b>SECTION B: GENERAL PRELIMINARIES</b>		
<b>DEFINITIONS AND INTERPRETATION</b>		
<b>B1.0</b>		
<b>Definitions</b>	Item	
F:..... V:..... T:.....		
<b>B1.1</b>		
<b>Interpretation</b>	Item	
F:..... V:..... T:.....		
<b>B1.2</b>		
<b>B2.0</b>	Item	
<b>DOCUMENTS</b>		
F:..... V:..... T:.....	Item	
<b>B2.1</b>		
<b>Checking of documents</b>	Item	
F:..... V:..... T:.....		
<b>B2.2</b>		
<b>Provisional bills of quantities</b>	Item	
F:..... V:..... T:.....		
<b>B2.3</b>		
<b>Availability of construction information</b>	Item	
F:..... V:..... T:.....		
<b>B2.4</b>		
<b>Ordering of materials and goods</b>	Item	
F:..... V:..... T:.....		
<b>B3.0</b>		
<b>PREVIOUS WORK AND ADJOINING PROPERTIES</b>		
<b>B3.1</b>		
<b>Previous work - dimensional accuracy</b>	Item	
F:..... V:..... T:.....		
<b>B3.2</b>		
<b>Previous work - defects</b>	Item	
F:..... V:..... T:.....		
<b>B3.3</b>		
<b>Inspection of adjoining properties</b>	Item	
F:..... V:..... T:.....		
<b>B4.0</b>		
<b>THE SITE</b>	Item	
<b>B4.1</b>		
<b>Handover of site in stages</b>	Item	
F:..... V:..... T:.....		
<b>B4.2</b>		
<b>Enclosure of the works</b>	Item	
F:..... V:..... T:.....		
<b>B4.3</b>		
<b>Geotechnical and other investigations</b>	Item	
F:..... V:..... T:.....		
<b>B4.4</b>		
<b>Encroachments</b>	Item	
F:..... V:..... T:.....		

## SECTION 1: PRELIMINARIES (SECTION B)

Effective date: 20 July 2022

20

Each Item Carried to Collection

Version 2022/04

Item	R	C
<b>B4.5 Existing premises occupied</b>	Item	
F:..... V:..... T:.....		
<b>B4.6 Services - known</b>	Item	
F:..... V:..... T:.....		
<b>B5.0 MANAGEMENT OF CONTRACT</b>		
<b>B5.1 Management of the works</b>	Item	
F:..... V:..... T:.....		
<b>B5.2 Progress meetings</b>	Item	
F:..... V:..... T:.....		
<b>B5.3 Technical meetings</b>	Item	
F:..... V:..... T:.....		
<b>B6.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS</b>		
<b>B6.1 Samples of materials</b>	Item	
F:..... V:..... T:.....		
<b>B6.2 Workmanship samples</b>	Item	
F:..... V:..... T:.....		
<b>B6.3 Shop drawings</b>	Item	
F:..... V:..... T:.....		
<b>B6.4 Compliance with manufacturer's instructions</b>	Item	
F:..... V:..... T:.....		
<b>B7.0 DEPOSITS AND FEES</b>	Item	
<b>B7.1 Deposits and fees</b>	Item	
F:..... V:..... T:.....		
<b>B8.0 TEMPORARY SERVICES</b>		
<b>B8.1 Water</b>	Item	
F:..... V:..... T:.....		
<b>B8.2 Electricity</b>	Item	
F:..... V:..... T:.....		
<b>B8.3 Abolition and welfare facilities</b>	Item	
F:..... V:..... T:.....		

## SECTION 1: PRELIMINARIES (SECTION B)

Item	R	C
B8.4 <b>Communication facilities</b> F..... V..... T.....	Item	
<b>B9.0 PRIME COST AMOUNTS</b>		
B9.1 <b>Responsibility for prime cost amounts</b> F..... V..... T.....	Item	
<b>B10.0 ATTENDANCE ON SUBCONTRACTORS</b>		
B10.1 <b>General attendance</b>  The contractor shall at his own expense provide the following general attendance on the subcontractors:  Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor.  The provision of water and lighting and single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation  The provision of an area for the subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials  The use of erected scaffolding belonging to the contractor, in common with others having the like right, while it remains erected on the site  The use, at reasonable times by arrangement of the contractor's erected hoisting equipment		
B10.2 <b>Special attendance</b> F..... V..... T.....	Item	
<b>B11.0 GENERAL</b>		
B11.1 <b>Protection of the works</b> F..... V..... T.....	Item	
B11.2 <b>Protection/isolation of existing works and works occupied in sections</b> F..... V..... T.....	Item	
B11.3 <b>Security of the works</b> F..... V..... T.....	Item	
B11.4 <b>Notice before covering work</b> F..... V..... T.....	Item	

## SECTION 1: PRELIMINARIES (SECTION B)

Effective date: 20 July 2022

Each Item Carried to Collection

Version 2022/04

Item	R	C
<b>B11.5 Disturbance</b> The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent	Item	
<b>B11.6 Environmental disturbance</b> F:..... V:..... T:.....	Item	
<b>B11.7 Works cleaning and clearing</b> F:..... V:..... T:.....	Item	
<b>B11.8 Vermin</b> F:..... V:..... T:.....	Item	
<b>B11.9 Overhand work</b> F:..... V:..... T:.....	Item	
<b>B11.10 Tenant installations</b> F:..... V:..... T:.....	Item	
<b>B11.11 Advertising</b> F:..... V:..... T:.....	Item	

## SECTION 1: PRELIMINARIES (SECTION B)

Effective date: 20 July 2022

## SECTION C: SPECIFIC PRELIMINARIES

**Section C** contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

### C1.0 CONTRACT DRAWINGS

\* Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a **bills of quantities** or lump sum document

\* The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

\* A full set of drawings is issued with the tender documents indicating the full scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

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

Item

### C2.0 PREAMBLES

The document "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" is obtainable on the Department's website (<http://www.publicworks.gov.za/>) under "Consultants Guidelines", and shall be read in conjunction with the **bills of quantities** / lump sum document and be referred to for the full descriptions of work to be done and materials to be used

The document "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" is issued together with the drawings and shall be read in conjunction with the drawings and the **bills of quantities** / lump sum document

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

Item

### C3.0 TRADE NAMES

Wherever a trade name for any product has been described in the **bills of quantities** / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

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

Item

### C4.0 IMPORTED MATERIALS AND EQUIPMENT

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the

Each Item Carried to

## SECTION 1: PRELIMINARIES (SECTION C)

### Collection

price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

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

#### C5.0 VIEWING THE SITE IN SECURITY AREAS

The **site** is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the **site** for tendering purposes

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

#### C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS

As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** account

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

#### C7.0 ENTRANCE PERMITS TO SECURITY AREAS

As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

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

#### C8.0 SECURITY CHECK OF PERSONNEL

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**

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

Item

#### C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

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

Item

#### C10.0 HIV/AIDS AWARENESS

### SECTION 1: PRELIMINARIES (SECTION C)

#### Collection

Effective date: 20 July 2022

Each Item Carried to

It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities** / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including **Interest**, due to such delay of payment

#### **AWARENESS CHAMPION**

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

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

Item

#### **AWARENESS WORKSHOPS**

Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

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

Item

#### **POSTERS, BOOKLETS, VIDEOS, ETC.**

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

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

Item

#### **ACCESS TO CONDOMS**

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

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

Item

#### **MONITORING**

Monitoring HIV/AIDS awareness of workers, providing the **principal agent** with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the **construction period** and close out, all in accordance with the HIV/AIDS Specification

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

Item

### **SECTION 1: PRELIMINARIES (SECTION C)**

#### **Collection**

Item	R	C	C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT
<p>The <b>contractor</b> shall comply with all the requirements as set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)</p> <p>It is required of the <b>contractor</b> to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the <b>bills of quantities</b> / lump sum document</p>			
<p>The <b>contractor</b> must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the <b>principal agent</b>, notwithstanding the provisions of Clause A25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any <b>progress payment certificate</b> until the <b>contractor</b> provides satisfactory proof of compliance. The <b>contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment</p> <p>Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p>			
<p>F..... V..... T.....</p>	Item		
<p><b>C12.0 EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)</b></p>			
<p>The <b>contractor</b> shall comply with all the requirements as set out in the "Additional Specification Sl: Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS)" as attached to these <b>bills of quantities</b> / lump sum document</p>			
<p>The <b>contractor</b> shall identify a minimum number of youth workers from a priority list, and shall employ them at the statutory labour rates for a minimum period and train them, all as per the aforementioned specification and as elsewhere measured in these <b>bills of quantities</b> / lump sum document</p>			
<p>The <b>contractor</b> shall liaise and co-ordinate with the <b>employer</b> and the EPWP Training Service Provider with regard to the priority list, the selection of youth workers, and the employment and training of the identified youth workers</p>			
<p>The <b>contractor</b> shall avail the services of an adequately qualified foreman specifically for the EPWP-NYS youth workers, to act as their construction supervisor. The foreman will be responsible for continually monitoring the progress of the youth workers and for addressing questions and issues that may arise from the youth workers</p>			
<p>Separate items which will be subject to remeasurement have been included elsewhere in these <b>bills of quantities</b> / lump sum document to cover the direct costs associated with the employment and training of the youth workers. Any additional requirements in respect of the aforementioned specification are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p>			
<p>F..... V..... T.....</p>	Item		
<p><b>C13.0 IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP)</b></p>			
<p><b>SECTION 1: PRELIMINARIES (SECTION C)</b></p>			
<p><b>Collection</b></p>			

Item

The contractor shall comply with all the requirements of the "Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes" issued in terms of the "Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)" and the related "Ministerial Determination", for the employment of locally employed temporary workers on a labour-intensive infrastructure project under the Expanded Public Works Programme (EPWP)

The contractor shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report to the principal agent in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)"

Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

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

Item

R C

## SECTION 1: PRELIMINARIES (SECTION C)

### Collection

Each Item Carried to

Effective date: 20 July 2022

28

Version 2022/04

**SECTION 1  
PRELIMINARIES  
COLLECTION**

Item	Page	R	AMOUNT
<b>SECTION A: PRINCIPAL BUILDING AGREEMENT</b>			
<b>Interpretation</b>			
A1.0 Definitions and interpretation	2		
A2.0 Law, regulations and notices	2		
A3.0 Offer and acceptance	2		
A4.0 Cession and assignment	2		
A5.0 Documents	2		
A6.0 Employer's agents	2		
A7.0 Design responsibility	3		
<b>Insurances and securities</b>			
A8.0 Works risk	3		
A9.0 Indemnities	3		
A10.0 Insurances	3		
A11.0 Securities	3		
<b>Execution</b>			
A12.0 Obligations of the parties	3		
A13.0 Setting out	4		
A14.0 Nominated subcontractors	4		
A15.0 Selected subcontractors	4		
A16.0 Direct contractors	4		
A17.0 Contract instructions	4		
<b>Completion</b>			
A18.0 Interim completion	4		
A19.0 Practical completion	4		
A20.0 Completion in sections	4		
A21.0 Defects liability period and final completion	4		
A22.0 Latent defects liability period	5		
A23.0 Revision of the date for practical completion	5		
A24.0 Penalty for late and non-completion	5		
<b>Payment</b>			
A25.0 Payment	5		
A26.0 Adjustment of the contract value and final account	5		
A27.0 Recovery of expense and/or loss	5		
Carried forward R			

**SECTION 1: PRELIMINARIES: COLLECTION**

Effective date: 20 July 2022

Item	Suspension and termination	Brought forward R
A28.0	Suspension by the contractor .. .. ..	5
A29.0	Termination	5
A30.0	<b>Dispute resolution</b>	5
	<b>SECTION B: GENERAL PRELIMINARIES</b>	
	<b>Definitions and interpretation</b>	
B1.0	Definitions	6
B1.1	Interpretation	6
B1.2		
B2.0	<b>Documents</b>	
B2.1	Checking of documents	6
B2.2	Provisional bills of quantities	6
B2.3	Availability of construction information	6
B2.4	Ordering of materials and goods	6
B3.0	<b>Previous work and adjoining properties</b>	
B3.1	Previous work - dimensional accuracy	6
B3.2	Previous work - defects	6
B3.3	Inspection of adjoining properties	6
B4.0	<b>The site</b>	
B4.1	Handover of site in stages	6
B4.2	Enclosure of the works	6
B4.3	Geotechnical and other investigations	6
B4.4	Encroachments	6
B4.5	Existing premises occupied	7
B4.6	Services - known	7
B5.0	<b>Management of contract</b>	
B5.1	Management of the works	7
B5.2	Progress meetings	7
B5.3	Technical meetings	7
B6.0	<b>Samples, shop drawings and manufacturer's instructions</b>	
B6.1	Samples of materials	7
B6.2	Workmanship samples	7
B6.3	Shop drawings	7
B6.4	Compliance with manufacturer's instructions	7

## SECTION 1: PRELIMINARIES: COLLECTION

Effective date: 20 July 2022

Item	Carried forward R	Brought forward R	R	C
B7.0 <b>Deposits and fees</b>				
B7.1 Deposits and fees	7			
B8.0 <b>Temporary services</b>				
B8.1 Water	7			
B8.2 Electricity	7			
B8.3 Abolition and welfare facilities	7			
B8.4 Communication facilities	8			
B9.0 <b>Prime cost amounts</b>				
B9.1 Responsibility for prime cost amounts	8			
B10.0 <b>Attendance on subcontractors</b>				
B10.1 General attendance	8			
B10.2 Special attendance	8			
B11.0 <b>General</b>				
B11.1 Protection of the works	8			
B11.2 Protection/isolation of existing works and works occupied in sections	8			
B11.3 Security of the works	8			
B11.4 Notice before covering work	8			
B11.5 Disturbance	9			
B11.6 Environmental disturbance	9			
B11.7 Works cleaning and clearing	9			
B11.8 Vermin	9			
B11.9 Overhand work	9			
B11.10 Tenant installations	9			
B11.11 Advertising	9			
<b>SECTION C: SPECIFIC PRELIMINARIES</b>				
C1.0 Contract drawings	10			
C2.0 Preambles	10			
C3.0 Trade names	10			
C4.0 Imported materials and equipment	10			
C5.0 Viewing the site in security areas	11			
C6.0 Commencement of works in security areas	11			
C7.0 Entrance permits to security areas	11			
C8.0 Security check of personnel	11			
C9.0 Prohibition on taking of photographs	11			

## SECTION 1: PRELIMINARIES: COLLECTION

Effective date: 20 July 2022

Item	R	C
	Carried forward R	
	Brought forward R	
C10.0	HIV/AIDS awareness	
C10.1	Awareness champion	12
C10.2	Awareness workshops	12
C10.3	Posters, booklets, videos, etc	12
C10.4	Access to condoms	12
C10.5	Monitoring	12
C11.0	Occupational Health and Safety Act	13
C12.0	Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS)	13
C13.0	Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)	13

**SECTION 1  
PRELIMINARIES**

**CARRIED TO FINAL SUMMARY**

**SUBTOTALS:**

R c

Category: Fixed R  
Category: Value R  
Category: Time R


R


**SECTION 1: PRELIMINARIES: COLLECTION**

Effective date: 20 July 2022

**SECTION 2:  
REMEDIAL WORKS TO  
EXISTING BUILDINGS**

		Unit	Quantity	Rate	Amount
<b>SECTION NO. 2</b>					
<b>REMEDIAL WORKS TO EXISTING BUILDINGS</b>					
<b>BILL NO. 1</b>					
<b>ALTERATIONS</b>					
<b>NOTES:</b>					
The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill					
<b>REMOVAL OF EXISTING WORK</b>					
<b>Breaking up and removing unreinforced concrete</b>					
100mm Thick apron slabs	m <sup>2</sup>	226			
<b>Carefully cut out and remove existing facebrick</b>					
De-coloured external facebrick skin and prepare to receive new (elsewhere measured)	m <sup>2</sup>	5			
<b>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</b>					
Acoustic tile suspended ceilings, including cornices, suspension grid, hangers, etc.	m <sup>2</sup>	196			
<b>Hacking up/off and removing granolithic screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.</b>					
Average 50mm thick screed from floors	m <sup>2</sup>	426			
5 Internal plaster from brick walls	m <sup>2</sup>	108			
6 External plaster from grease trap walls	m <sup>2</sup>	10			
<b>Taking out and removing piping, sanitary fittings, etc., including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</b>					
Copper piping not exceeding 50mm diameter	m	450			
<b>Taking out/off and removing glass and mirrors</b>					
Glass from steel windows, including cleaning out rebates and preparing for new glass	m <sup>2</sup>	100			
<b>Carried to Collection</b>					
Section No. 2					
Bill No. 1					
Alterations					
34					
<b>R</b>					

	Unit	Quantity	Rate	Amount
<b>OPENINGS THROUGH EXISTING WALLS ETC</b>				
Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)	No	1		
<b>SECURING / FIXING IN POSITION OF PREVIOUSLY INSTALLED ITEMS</b>				
Securely fix in position previously installed items, including all necessary drilling, rawl bolts, adhesive, welding, grout, etc., including patching paint or other finishes to match existing	No	1		
10 Security gate and frame to shower/toilets to cell block	No	1		
11 Balustrade to delivery platform	No	1		
12 Install cleats at roof screen over cell block exercise area	No	1		
13 Fix security fence to steel post at parking area north of kitchen	No	1		

Carried to Collection

Section No. 2  
Bill No. 1  
Alterations

BILL NO. 1  
ALTERATIONS  
COLLECTION

Page No

Brought Forward from Page  
34  
35

Carried To Section Summary

Section No. 2  
Bill No. 1  
Alterations

Unit	Quantity	Rate	Amount
------	----------	------	--------

**SECTION NO. 2****REMEDIAL WORKS TO EXISTING BUILDINGS****BILL NO. 2****FOUNDATIONS****NOTES:**

The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill

**SOIL POISONING****Soil insecticide:**

1 Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.

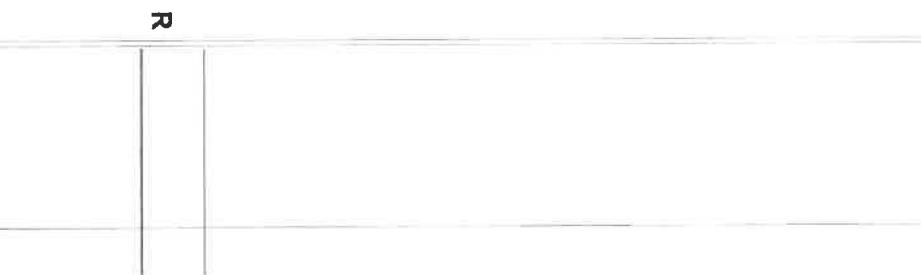
m<sup>2</sup>

226

Carried To Section Summary

Section No. 2  
Bill No. 2  
Foundations

R



Unit      Quantity      Rate      Amount

**SECTION NO. 2**  
**REMEDIAL WORKS TO EXISTING BUILDINGS**  
**BILL NO. 3**  
**CONCRETE FORMWORK AND REINFORCEMENT**

**NOTES:**

The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill

**SUPPLEMENTARY PREAMBLES**

"ABE Duracure WSC" or equal approved curing compound must be used on all concrete slabs, walls and stairs, all strictly in accordance with the manufacturer's instructions and in accordance with ASTM C 309.

All columns must be wrapped with plastic "Cling Wrap" for a minimum period of 21 days after casting.

**REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES (PROVISIONAL)**

**25MPa/19mm Concrete:**

1	Apron slabs	m <sup>3</sup>	23
<b>TEST BLOCKS</b>			
	<b>Test blocks:</b>		
2	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional).	Sets	4
	<b>CONCRETE SUNDRIES</b>		
	<b>25MPa non-shrink grout</b>	No	1
3	Grouting in solid between existing single door frame and brickwork		
<b>FINISHING TOP SURFACE OF CONCRETE</b>			
	<b>Finishing top surfaces of concrete smooth with a wood float:</b>		
4	Surface beds, slabs, etc.	m <sup>2</sup>	226
<b>ROUGH FORMWORK (DEGREE OF ACCURACY II)</b>			
	<b>Rough Formwork to Sides:</b>		
5	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	226

Section No. 2

Bill No. 3

Concrete, Formwork And Reinforcement

Carried to Collection

Unit	Quantity	Rate	Amount
<b>MOVEMENT JOINTS ETC</b>			
<b>6</b>			
<b>Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces:</b>			
12mm Joints not exceeding 300mm high.			
<b>7</b>			
<b>Saw cut joints:</b>			
6 x 10mm saw cut joint in top of concrete.	m	226	
<b>8</b>			
<b>REINFORCEMENT (PROVISIONAL)</b>			
<b>Fabric reinforcement:</b>			
Type 193 fabric reinforcement in concrete surface beds, slabs, etc.	m <sup>2</sup>	226	
<b>9</b>			
<b>Carried to Collection</b>			
<b>Section No. 2</b>			
<b>Bill No. 3</b>			
<b>Concrete, Formwork And Reinforcement</b>			
39			

四

**Section No. 2  
Bill No. 3  
Concrete, Formwork And Reinforcement**

Carried to Collection

६६

**BILL NO. 3**  
**CONCRETE, FORMWORK AND REINFORCEMENT**  
**COLLECTION**

Page No

Brought Forward from Page	Page No
38	
39	

Carried To Section Summary

Section No. 2	Amount
Bill No. 3	
Concrete, Formwork And Reinforcement	

40

R

Unit	Quantity	Rate	Amount
------	----------	------	--------

## SECTION NO. 2

### REMEDIAL WORKS TO EXISTING BUILDINGS

#### BILL NO. 4

#### MASONRY

##### NOTES:

The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill

##### FACE BRICKWORK

Face bricks (PC Allowance of R8 500.00 per thousand bricks, excluding VAT, supplied and delivered to site) pointed with square recessed horizontal and vertical joints:

1 Install facebrick skin to match existing where de-coloured bricks removed (elsewhere measured), including all necessary cutting, toothing and bonding

m<sup>2</sup>

5

Carried To Section Summary

Section No. 2  
Bill No. 4  
Masonry

R



Section No. 2	Quantity	Rate	Amount
<b>REMEDIAL WORKS TO EXISTING BUILDINGS</b>			
<b>BILL NO. 5</b>			
<b>WATERPROOFING</b>			
<b>NOTES:</b>			
The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill			
<b>DAMPROOFING OF WALLS AND FLOORS</b>			
<b>(PROVISIONAL)</b>			
One layer of 250 micron black waterproof sheeting sealed at laps with pressure sensitive tape:	m <sup>2</sup>	226	
1 Under surface beds.			
<b>WATERPROOFING TO FLAT SCREEDED ROOFS</b>			
One layer waterproofing membrane sealed by means of torchfusion or adhesive with 75mm side laps and 100mm end laps, laid under a ten-year guarantee to receive paint or stone protection (elsewhere measured):	m <sup>2</sup>		
2 On roofs and balconies.	m <sup>2</sup>	15	
3 Additional membrane at 150mm diameter outlet.	No	2	
<b>PROTECTIVE ROOFING PAINT</b>			
<b>Two coats bituminous aluminium paint:</b>			
4 On waterproofing to bottoms and sides of concrete box gutters.	m <sup>2</sup>	15	
<b>JOINT SEALANTS ETC</b>			
<b>Two-part polysulphide sealing compound including backing cord, bond breaker, primer, etc.:</b>			
5 6x10mm In saw cut joints in floors.	m	75	
6 10 x 10mm In vertical expansion joints in walls including raking out expansion joint filler as necessary.	m	20	
7 10 x 10mm In sealer to floor expansion joints, including removal of existing joint sealer, neatly cutting open joint and re-seal	m	50	
8 10 x 10mm In sealer between floor finish and angle iron to floor drain	m	44	
Carried to Collection			
Section No. 2			
Bill No. 5			
Waterproofing			

9	12 x 12mm In vertical expansion joints including removing existing expansion joint material, neatly cutting open joint and re-sealing	m	16								
Carried to Collection											
R											
BL24/002											

Section No. 2

Bill No. 5

Waterproofing

BILL NO. 5  
WATERPROOFING  
COLLECTION

Page No

Brought Forward from Page  
42  
43

Carried To Section Summary

Section No. 2  
Bill No. 5  
Waterproofing

44

R

Unit	Quantity	Rate	Amount

## SECTION NO. 2

### REMEDIAL WORKS TO EXISTING BUILDINGS

#### BILL NO. 6

#### ROOF COVERINGS

##### NOTES:

The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill

##### RIBBED METAL SHEETING AND ACCESSORIES

Inspect, locate and repair leaks in 'Klip-Lok 700' or equal approved 0.58mm thick heavy industrial Z275 spelter galvanised steel sheeting with 'Classicoat' finish one side and half coat 'Classicoat Grey' other side and accessories fixed to steel purlins or rails at 1850mm centres, complete, including all necessary sealer, flashings, etc.:

1	Roof leak at air inlet to cooking area	No
2	Roof leak to bread store	No
3	Roof leak to dry store	No

Carried To Section Summary

Section No. 2  
Bill No. 6  
Roof Coverings

		Unit	Quantity	Rate	Amount
					BL24/002
<b>SECTION NO. 2</b>	<b>REMEDIAL WORKS TO EXISTING BUILDINGS</b>				
<b>BILL NO. 7</b>	<b>CEILINGS PARTITIONS AND ACCESS FLOORING</b>				
<b>NOTES:</b>					
	The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill				
<b>INSULATION</b>					
<b>Rock wool insulation:</b>					
1	75mm Insulation closely fitted and laid on top of ceiling boards.				
	<b>SUSPENDED CEILINGS</b>				
	<b>Plain vinyl faced gypsum ceiling tiles size 600 x 600 x 12.5mm thick laid on pre-painted aluminium capped exposed tee suspension system including galvanised main tees, cross tees, hold-down clips, wedges, etc. all suspended with galvanised 20 x 20mm angles at not exceeding 1200mm centres strictly in accordance with the manufacturer's instructions:</b>				
2	Ceilings suspended not exceeding 1m below steel trusses.	m <sup>2</sup>	196		
	<b>Cornices to suspended ceilings:</b>				
3	47 x 35mm Recessed pre-painted shadowline cornice plugged.	m	178		

Carried To Section Summary

Section No. 2  
Bill No. 7  
Ceilings Partitions And Access Flooring

SECTION NO. 2	REMEDIAL WORKS TO EXISTING BUILDINGS	Unit	Quantity	Rate	Amount
<b>BILL NO. 8</b>					
<b>JOINERY FITTINGS</b>					
<b>NOTES:</b>					
	The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill				
	<b>VEGETABLE RACKS AND BASKETS</b>				
	<b>Stainless steel vegetable racks including baskets:</b>				
1	1700 x 1700 x 1100mm High welded vegetable rack including 3 no. vegetable baskets as per Architect drawing B1/19.	No	6		
<b>SHELVING</b>					
	<b>Stainless steel shelving bolted to brickwork or concrete:</b>				
2	Supply and install 1200 x 600mm stainless steel adjustable shelving in existing supports as per Architect drawing B1/19.	No	44		

Carried To Section Summary

Section No. 2  
Bill No. 8  
Joinery Fittings

Unit	Quantity	Rate	Amount

## **SECTION NO. 2**

### **REMEDIAL WORKS TO EXISTING BUILDINGS**

#### **BILL NO. 9**

#### **METALWORK**

##### **NOTES:**

The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill

##### **SUNDRY STEELWORK**

###### **Stainless steel corner protectors:**

1 50 x 50 x 2mm Thick grade 304 stainless steel corner protectors with 8mm diameter x 50mm long lugs welded on at 300mm centres and epoxy grouted into drilled holes in brickwork or concrete.

1 m 3

###### **Stainless steel floor duct covers to "Cooking Pots" Area"**

2 "Vitagrid" or equal approved stainless steel grating with 30 x 4.5mm thick bearer bars and 8mm diameter solid round transversal bars in duct covers approximately 500mm wide in suitable lengths laid loose in framing (framing elsewhere measured).

26 m<sup>2</sup>

3 50 x 50 x 5mm Angle section framing with 30 x 3mm flat section lugs 100mm long with 20mm splayed end welded on at 300mm centres including embedding in concrete.

88 m

4 Extra over for 90 degree mitred L-intersection

8 No

Carried to Collection

Section No. 2  
Bill No. 9  
Metalwork

Unit	Quantity	Rate	Amount
------	----------	------	--------

### CELL TYPE GRILLE GATES AND DOORS

For details refer to drawing annexed to these bills of quantities

Sliding gate and fixed screens to "Delivery Area":

Screens and gates manufactured from 63 x 63 x 6mm angle section framework welded together with 6mm gusset plates at all corners, the frame filled in with 19mm diameter solid round bars equally spaced and welded vertically in position at not exceeding 120mm centres and with 3 No. 50 x 50 x 6mm angle section intermediate horizontal rails, equally spaced and welded in position, the frame drilled and bolted to brickwork or concrete with 10mm expansion bolts at not exceeding 300mm centres:

5 Take out and store for re-use, manually operated sliding gate size 3000 x 2440mm high overall, replace bottom guide rail as per Architect drawing 12 and re-install gate, executed complete to leave gate in perfect working order.

No

1

Cell locks:

6 Provide the sum of R 6 000.00 (Six Thousand Rands). This sum will be deducted from the contract sum and paid directly by the client to the supplier for No. 6 cell locks complete with keys, etc., to be provided to the contractor (taking delivery and fixing elsewhere measured).

Item

6 000.00

7 Allow for profit on above item.

8 Allow for taking delivery of No. 6 cell locks at the nearest main police station, carting to site, temporarily storing and fixing only in position to cell doors and grille gates.

STEEL STRONGROOM DOORS, VENTILATORS, ETC.

Strongroom doors, etc. suitable for 230mm walls, including setting up and building into brickwork or concrete:

9 Single sided strongroom ventilator size 185 x 185mm.

Item

1

Carried to Collection

Section No. 2  
Bill No. 9  
Metalwork

		Unit	Quantity	Rate	Amount
<b>SECURITY FENCING</b>					
<b>"Clearvu" or equal approved Category 3 Security Fencing System:</b>					
10	Security fencing system comprising pre-galvanised steel mesh panels size 3297 x 3000mm high at 3382mm centres, 4mm diameter galvanised wire with aperture size 76.2mm x 12.7mm, panels to be reinforced with 4 x 50mm "V" recessed bands and 2 x 75mm, 70 degree flanges along sides, posts 85 x 45mm tapered, hot dipped galvanised, including all single and double bolt combi clamps galvanised and including anti-vandal galvanised bolts, supplied and installed complete as per manufacturer's specifications. (Bases elsewhere measured)	m	6		
11	Extra over fence for single sliding gate size 2.00 x 3.00m high overall including sliding gear, etc., installed complete.	No	2		
<b>R</b>					
Carried to Collection					
Section No. 2					
Bill No. 9					
Metalwork					
50					

BILL NO. 9  
METALWORK  
COLLECTION

Page No

Brought Forward from Page	48
49	
50	

Carried To Section Summary

Section No. 2  
Bill No. 9  
Metalwork

Unit      Quantity      Rate      Amount

**SECTION NO. 2****REMEDIAL WORKS TO EXISTING BUILDINGS****BILL NO. 10****PLASTERING****NOTES:**

The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill

**SCREEDS****Screeds wood floated on concrete:**

1 Average 50mm thick on floors to falls and currents

m<sup>2</sup>

426

**INTERNAL PLASTER****5.1 Cement plaster on brickwork finished with a steel trowel:**

2 On walls.

m<sup>2</sup>

108

3 On narrow widths.

m<sup>2</sup>

10

**EXTERNAL PLASTER****Cement plaster on brickwork:**

4 On external grease trap walls.

m<sup>2</sup>

10

**SKIRTINGS**

"Pro-Struct 618/22" or equal approved epoxy mortar to walls strictly in accordance with the manufacturer's instructions:

5 100mm High coved skirting complete with metal cove strip.

m

70

**CORNER PROTECTORS, DIVIDING STRIPS, ETC.****Dividing strips:**

6 3 x 25mm Copper dividing strip between floor finishes.

m

20

Carried To Section Summary

Section No. 2  
Bill No. 10  
Plastering

Item	Quantity	Rate	Amount
<b>SECTION NO. 2</b>			
<b>REMEDIAL WORKS TO EXISTING BUILDINGS</b>			
<b>BILL NO. 11</b>			
<b>PLUMBING AND DRAINAGE</b>			
<b>NOTES:</b>			
The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill			
<b>SOIL DRAINAGE</b>			
<b>Sundries:</b>			
1	Provide all necessary equipment for and test the entire internal soil drainage system, including making good any defects and re-testing until found perfect and to the satisfaction of the Principal Agent		
<b>SANITARY FITTINGS</b>			
Inspect, service and repair the following sanitary fittings, complete including all necessary seals, valves, short lengths of pipes, etc., and leave in perfect working order to the satisfaction of the Principal Agent			
2	Cell block toilets - Re-install toilet push button unit	No	1
3	Cell block toilets - Toilet not operational, inspect and repair	No	1
4	Cell block toilets - Re-install drain pipe to toilet in cell 2	No	1
5	Staff toilet - repair water leak	No	1
6	Cooking area west wall freezer - repair water leak to cleaning hose reel	No	2
7	Members toilet - incoming water supply connection leaking	No	1
8	Cook's toilet in passage - incoming water connection leaking	No	1
<b>WATER SUPPLIES</b>			
<b>Class II copper pipes:</b>			
9	15mm Pipes.	m	200
10	28mm Pipes.	m	250
<b>Extra over class II copper pipes for capillary fittings:</b>			
11	15mm Fittings.	No	60
Carried to Collection			
Section No. 2			
Bill No. 11			
Plumbing And Drainage			
	53		

		Unit	Quantity	Rate	Amount
12	28mm Fittings.	No	90		
13	<b><u>Sundries</u></b> Supply and install suitable rubber plugs and chains to all wash hand basins and sinks	No	29		
14	<b>Testing:</b> Provide all necessary equipment for and test the entire internal water supply system, including making good any defects and re-testing until found perfect and to the satisfaction of the Principal Agent	Item			
15	<b>FIRE APPLIANCES ETC.</b> <b>Fire appliances:</b> 4.5kg Dry chemical fire extinguisher mounted including 520 x 100 x 20mm thick hardwood backing boards with brackets all in compliance with SABS 810 and shall have a SABS, LPC or UL approval.	No	2		
16	4.5kg Dry carbon dioxide fire extinguisher mounted including 520 x 100 x 20mm thick hardwood backing boards with brackets all in compliance with SABS 810 and shall have a SABS, LPC or UL approval..	No	2		
17	<b>Testing:</b> Provide all necessary equipment for and test the entire internal fire water system, including making good any defects and re-testing until found perfect and to the satisfaction of the Principal Agent	Item			

Carried to Collection

Section No. 2

Bill No. 11

Plumbing And Drainage

**BILL NO. 11**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

Page No

Brought Forward from Page  
53  
54

Carried To Section Summary

Section No. 2  
Bill No. 11  
Plumbing And Drainage

Unit      Quantity      Rate      Amount

**SECTION NO. 2**  
**REMEDIAL WORKS TO EXISTING BUILDINGS**

**BILL NO. 12****GLAZING****NOTES:**

The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct 1993) before pricing this bill

**GLAZING TO STEEL WITH PUTTY****7.6mm Laminated clear safety glass:**

1 Panes exceeding 0,1m<sup>2</sup> and not exceeding 0,5m<sup>2</sup>.

m<sup>2</sup>      100

Carried To Section Summary

Section No. 2  
 Bill No. 12  
 Glazing

		Unit	Quantity	Rate	Amount
<b>SECTION NO. 2</b>	<b>REMEDIAL WORKS TO EXISTING BUILDINGS</b>				
<b>BILL NO. 13</b>	<b>PAINTWORK</b>				
	<b>NOTES:</b>				
	The Tenderer is advised to refer to the latest edition of the 'Specification of Materials And Methods To be Used' (PW 371/Oct. 1993) before pricing this Bill.				
	<b>ON FLOATED PLASTER</b>				
	<b>Prepare and brush to remove all loose contaminants, apply one coat alkali resistant primer and two coats pure acrylic suede finish paint:</b>				
1	On exterior walls.				
	<b>EPOXY FLOOR AND WALL COATINGS ON EXISTING AREAS WITH EPOXY FINISHES</b>				
	Rates are to include for preparing the existing surfaces, removing loose and flaking epoxy and preparation to receive new epoxy finishes				
2	<b>Prepare surfaces and apply one primer coat and two top coats "Stonkote 681" or equal approved water based epoxy enamel strictly in accordance with the manufacturer's instructions:</b>				
	On internal plastered walls.	m <sup>2</sup>	50		
3	<b>Prepare surfaces and apply one primer coat of "Stonprime SL Primer 739 SL" or equal approved and one top coat of "Stonclad UL" or equal approved polyurethane urea cement levelling industrial floor finish to a nominal thickness of 3 - 4mm strictly in accordance with the manufacturer's instructions:</b>	m <sup>2</sup>	1 950		
4	On concrete floors.	m <sup>2</sup>	396		
	<b>Prepare surfaces and apply two coats "Stonseal 722" or equal approved solvent-free non-slip epoxy sealer to previously applied "Stonclad UL" or equal approved finish strictly in accordance with the manufacturer's instructions (refer item above).</b>				
	On concrete floors.	m <sup>2</sup>	105		
	Carried to Collection				
Section No. 2					
Bill No. 13					
Paintwork					
57					
<b>R</b>					

		Unit	Quantity	Rate	Amount
5	Prepare surfaces and apply "Stonshield UTS" or equal approved self-priming, textured four component polyurethane mortar system with a nominal thickness of 6mm and "Stonseal 787" or equal approved solvent-free clear epoxy sealer, all in accordance with the manufacturer's instructions: On concrete floors.	m <sup>2</sup>	483		
6	<b>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</b> <b>ON METAL SURFACES</b> Prepare surfaces, spot priming bare metal surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on work in fair condition in colour to match existing	m <sup>2</sup>			
7	On lock boxes installed in steel doors and gates	m <sup>2</sup>	10		
8	On door frames	m <sup>2</sup>	2		
	Cell type window frames and bars (both sides measured flat)	m <sup>2</sup>	200		

Carried to Collection

Section No. 2  
Bill No. 13  
Paintwork

**BILL NO. 13**  
**PAINTWORK**  
**COLLECTION**

Page No

Brought Forward from Page  
57  
58

Carried To Section Summary

Section No. 2  
Bill No. 13  
Paintwork

**SECTION NO. 2****REMEDIAL WORKS TO EXISTING BUILDINGS****SECTION SUMMARY**

<b>Bill No.</b>	<b>Section</b>	<b>Page</b>
1	ALTERATIONS	36
2	FOUNDATIONS	37
3	CONCRETE, FORMWORK AND REINFORCEMENT	40
4	MASONRY	41
5	WATERPROOFING	44
6	ROOF COVERINGS	45
7	CEILINGS PARTITIONS AND ACCESS FLOORING	46
8	JOINERY FITTINGS	47
9	METALWORK	51
10	PLASTERING	52
11	PLUMBING AND DRAINAGE	55
12	GLAZING	56
13	PAINTWORK	59

Carried to Final Summary

**SECTION 3:  
EXTERNAL WORKS**

Section No. 3 External Works	Bill No. 1	Plumbing And Drainage	Unit	Quantity	Rate	Amount
<b>NOTES:</b>						
The Tenderer is advised to refer to the latest edition of the 'Specification of Materials and Methods to be Used' (PW 371 / Oct. 1993) before pricing this bill						
<b>SUPPLEMENTARY PREAMBLES</b>						
<b>Concrete pipes:</b>						
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.						
<b>uPVC pressure pipes and fittings:</b>						
Pipes for water supply shall be of the class stated.						
Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be upVC and all other fittings shall be cast iron, all with similar push-in type joints.						
<b>DEMOLITIONS</b>						
<b>Break up and remove from site and prepare to receive new (elsewhere measured)</b>						
1 Existing concrete stormwater channels not exceeding 150mm thick			m <sup>2</sup>	226		
<b>STORMWATER DRAINAGE</b>						
<b>THE FOLLOWING IN OPEN CHANNELS / DRAINS.</b>						
<b>ETC.</b>						
<b>Restricted excavation, filling, etc.</b>						
2 Trench excavation for drainage channel.			m <sup>3</sup>	34		
3 Extra over excavations in earth for trenches for excavations in soft rock.			m <sup>3</sup>	3		
4 Extra over excavations in earth for trenches for excavations in hard rock.			m <sup>3</sup>	2		
5 Extra over all excavations for carting away surplus excavated material to a dumping site to be located by the Contractor.			m <sup>3</sup>	34		
6 Allow for keeping excavations free of all water other than subterranean water.	Item					
Carried to Collection						
Section No. 3						
Bill No. 1						
Plumbing And Drainage						
62						
R						

7	Compaction of ground surface under floors, etc., including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density, including working in confined areas, etc.	Unit	Quantity	Rate	Amount
8	Soil insecticide to bottoms and sides of excavated trenches, holes, etc.	m <sup>2</sup>	226		
<b>20Mpa/19mm Reinforced concrete cast against excavated surfaces:</b>					
9	Drainage channel.	m <sup>3</sup>	34		
10	<b>Test blocks:</b> Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (provisional).	Sets	5		
11	<b>Finishing top surfaces of concrete smooth with a wood float:</b> Drainage channel, including forming to required slope, to form V-shape along centre.	m <sup>2</sup>	226		
12	<b>Rough Formwork to Sides:</b> Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	226		
13	<b>Expansion joints with bitumen impregnated softboard between vertical concrete surfaces:</b> 20mm Joints not exceeding 300mm high.	m	76		
14	<b>Expansion joints with bitumen impregnated softboard between vertical concrete and brickwork surfaces:</b> 20mm Joints not exceeding 300mm high.	m	226		
15	<b>Fabric reinforcement:</b> Type 245 fabric reinforcement in concrete channels, etc., including to slope.	m <sup>2</sup>	226		
16	<b>Two-part polysulphide sealing compound including backing cord, bond breaker, primer, etc.:</b> 20 x 20mm In vertical expansion joints including raking out expansion joint filler as necessary.	m	302		
17	<b>Sundries:</b> Allow for providing all necessary equipment and testing of stormwater drainage pipe system, making good any defects and retesting if required.	Item			
<b>R</b>					
Section No. 3	Carried to Collection				
Bill No. 1					
Plumbing And Drainage	63				

		Unit	Quantity	Rate	Amount
	<b><u>SOIL DRAINAGE</u></b>				
	<b><u>uPVC Class 34 pipes:</u></b>				
18	110mm Pipes laid to set falls in ground not exceeding 1m deep, on and including Class B bedding, including excavations, imported suitable granular material for bedding material, carting away excess excavated material, backfilling and compacting.	m	15		
19	110mm Pipes laid to set falls in ground exceeding 1m and not exceeding 2m deep, on and including Class B bedding, including excavations, imported suitable granular material for bedding material, carting away excess excavated material, backfilling and compacting.	m	15		
20	<b><u>Extra over uPVC Class 34 pipes for fittings:</u></b> 110mm Bend.	No	2		
21	<b><u>Precast concrete circular inspection chambers on and including 200mm thick 20MPa/19mm mass concrete base including 200mm thick precast concrete cover slab with opening rebated for cast iron cover (covers elsewhere measured), including 20MPa/19mm mass concrete benching in bottom of chamber, with top surfaces to falls and finished smooth with (1:1) cement plaster, including vitrified clay channels, channel bends, channel junctions, all cast in required position in concrete benching, including forming openings for and including insertion of ends of uPVC pipes in walls of chamber, grouting ends of uPVC pipes in final position, step irons, excavations in all materials, carting away excess excavated material, backfilling to sides of chamber and compacting to 90% Mod. AASHTO maximum density, etc., complete.</u></b>	m	15		
22	Extend existing inspection chamber by removing existing cover and frame, install 1x additional manhole ring and re-install existing manhole cover and frame	No	1		
	<b><u>REMEDIAL WORKS TO GREASE TRAPS</u></b>				
	<b><u>The following remedial works is to be carried out on the existing grease traps, installed in the ground in a grease trap chamber</u></b>				
	The gap between the grease trap and wall to be filled with SikagROUT 212 (or similar approved) after cleaning the interface, and strictly in accordance with the manufacturer's specifications.	m <sup>3</sup>	0.50		
	Carried to Collection				
	R				
Section No. 3					
Bill No. 1					
Plumbing And Drainage					
64					

		Unit	Quantity	Rate	Amount
23	Supply and install a 110ø non-return sewer valve, Marley (Redi) or similar approved, complete with Kimberley socket and short straight section (<200mm) to connect into existing pipe. The rate shall include the cutting of the existing pipe, cleaning and providing a temporary bypass.	No	1		
24	Extra-over for 110-80ø reducers if existing pipe is less than 110ø (To be confirmed on site).	No	2		
25	Suitable stainless steel filter basket installed in outlet of pot area drainage channel, including any necessary buildings works, making good finishes, connection to existing stainless steel drainage pipe, etc., complete	No	2		
	<b><u>Sundries:</u></b>				
26	Allow for providing all necessary equipment and testing of soil drainage pipe system, making good any defects and retesting if required.	Item			
	<b><u>WATER SUPPLIES</u></b>				
	<b><u>Sundries:</u></b>				
27	Allow for providing all necessary equipment and testing of main water pipe system, making good any defects and retesting if required.	Item			
	<b><u>WATER SUPPLIES TO FIRE APPLIANCES</u></b>				
	<b><u>Sundries:</u></b>				
28	Allow for providing all necessary equipment and testing of new fire water supply pipe system, making good any defects and retesting if required.	Item			

R

Section No. 3  
Bill No. 1

Plumbing And Drainage

Carried to Collection

**BILL NO. 1**  
**PLUMBING AND DRAINAGE**  
**COLLECTION**

Page No

Brought Forward from Page

62  
63  
64  
65

Carried To Section Summary

Section No. 3  
Bill No. 1  
Plumbing And Drainage

			Unit	Quantity	Rate	Amount
	<b>SECTION NO. 3</b>					BL24/002
	<b>EXTERNAL WORKS</b>					
	<b>BILL NO. 2</b>					
	<b>EXTERNAL WORKS</b>					
	<b>PREAMBLES</b>					
	The Tenderer is advised to refer to the latest edition of the Specification of Materials and Methods to be used' (PW 371/Oct 1993) before pricing this Bill.					
	<b>TRADE NAMES</b>					
	No reference to trade names has been made in these Bills of Quantities.					
	<b>ROADWORK</b>					
	<b>Site clearance:</b>					
1	Break up and remove existing tar surface, correct levels and prepare to receive new tar surface (elsewhere measured)	m <sup>2</sup>	200			
2	Take up and remove damaged mountable kerbing	m	30			
	<b>WEEDKILLER</b>					
	<b>Approved brand of weedkiller mixed and applied in accordance with the manufacturer's instructions:</b>					
3	Under roads, parking, etc.	m <sup>2</sup>	200			
	<b>Earth filling supplied by the contractor from commercial sources under roads, etc. (SABS 1200 DM - 8.3.5):</b>					
4	Imported G7 material as selected layer 2 under roads, compacted to 93% Mod. AASHTO maximum density	m <sup>3</sup>	28			
5	Imported G7 material as selected layer 1 under roads, compacted to 93% Mod. AASHTO maximum density.	m <sup>3</sup>	28			
	<b>TESTS</b>					
	<b>Prescribed density tests on filling:</b>					
6	Maximum dry density and optimum moisture content test in accordance with method A7 of TMH 1	No	3			
7	Field Density test (including Optimum Moisture Content (four readings per test).	No	3			
8	Modified AASHTO Density test.	No	3			
9	Road Indicator test.	No	3			
	<b>Carried to Collection</b>					
	Section No. 3					
	Bill No. 2					
	External Works					

		Unit	Quantity	Rate	Amount
<b>ASPHALT BASE AND SURFACING</b>					
	<b>Prime coat (SABS 1200 MH - 8.5.1)</b>				
10	Prime coat using RTH 3/12P tar primer.	m <sup>2</sup>	200		
	<b>Tack coat (SABS 1200 MH - 8.5.3)</b>				
11	Spray surface using 30% stable grade emulsion.	m <sup>2</sup>	200		
	<b>Asphalt (SABS 1200 MH - 8.5.4)</b>				
12	Apply 30mm thick continuously graded TPA (medium asphalt surfacing using B4 road grade (150/200 pen. grade) bitumen.	m <sup>2</sup>	200		
	<b>Variations in quantities of:</b>				
13	Prime coat.	Litres	15		
14	Tack coat.	Litres	15		
15	Asphalt bitumen binder.	Litres	15		
	<b>Sundries:</b>				
16	Allow for intersection of new with existing asphalt, including tieing in all layerworks, etc., complete, to form an even and flush top surface.	m	20		
	<b>PRECAST CONCRETE KERBS</b>				
	<b>Precast concrete kerbing (complying with SABS 927) in 1m lengths, wet presses, placed in position, bedded and jointed in 3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, excavation, backfilling, ramming, etc.:</b>				
17	Mountable kerb (Figure 8b) 300 x 175mm high.	m	15		
18	Mountable kerb (Figure 8b) 300 x 175mm high circular on plan exceeding 4m radius formed with 330mm lengths of straight kerb.	m	10		
19	Mountable kerb (Figure 8b) 300 x 175mm high circular on plan not exceeding 4m radius formed with 330mm lengths of straight kerb.	m	5		

Carried to Collection

Section No. 3  
Bill No. 2  
External Works

			Unit	Quantity	Rate	Amount
<b><u>ANCILLARY ROADWORKS</u></b>						
<b><u>Statutory signs, street names, and the like, supplied and erected complete (SABS 1200 MM - 8.3.3.b and 8.3.6):</u></b>						
20	R1 stop sign, including 100mm diameter galvanised mild steel support post, cast in and including mass concrete base, excavations, backfilling and compacting, etc. complete (610mm Diameter).	No	1			
21	R2 yield sign, including 100mm diameter galvanised mild steel support post, cast in and including mass concrete base, excavations, backfilling and compacting, etc. complete.	No	1			
<b><u>Non reflectorised paint applied at a nominal rate of 0.42 litre/m<sup>2</sup> as scheduled (SABS 1200 MM - 8.4.1), including setting out and pre-marking (SABS 1200 MM - 8.4.4):</u></b>						
22	White line - 100mm wide unbroken demarcation line.	m	100			
23	White line - 300mm wide unbroken stop line.	m	6			
24	White line - 300mm wide broken yield line.	m	6			
<b><u>FENCING</u></b>						
<b><u>Class C Galvanised Welded Mesh security fencing :</u></b>						
25	Security fencing 3m high formed of six x 3mm straining wires passed through posts and tied to straining posts or eye bolts covered with 50 x 25 x 3.15mm welded wire mesh fixed at 500mm centres to each straining wire (PERMANENT).	m	20			
26	Continuous concertina galvanised razor wire security roll to top of fence wrapped in 450mm diameter rings fixed together and to straining wire at 500mm centres (PERMANENT).	m	20			
27	100mm Diameter intermediate post 3.6m long with V-shaped 450mm overhang both sides, set in and including concrete base size 500 x 500 x 500mm deep, including excavations, carting away surplus excavated material, etc. complete.	m	20			
28	75mm Diameter inclined stay 3.6m long with one end bolted to post and other end set in and including concrete base size 500 x 500 x 500mm deep, including excavations, carting away surplus excavated material, etc. complete.	No	4			
<b><u>R</u></b>						
Section No. 3	Carried to Collection					
Bill No. 2						
External Works						

29 100mm Diameter corner post 3.6m long with V-shaped 450mm overhang both sides, set in and including concrete base size 500 x 500 x 500mm deep; including excavations, carting away surplus excavated material, etc. complete.

31

30 Allow for intersection of new 3m high security fencing with existing fencing, building, etc.

No

2

31 Allow for bracing to existing southern security gate post to the main fence's post, including all bracing material, welding, bolting including holes, etc., executed complete

No

1

Unit      Quantity      Rate      Amount

Carried to Collection

Section No. 3  
Bill No. 2  
External Works

**BILL NO. 2**  
**EXTERNAL WORKS**  
**COLLECTION**

Page No

Brought Forward from Page

67  
68  
69  
70

Carried To Section Summary

R

Section No. 3  
Bill No. 2  
External Works

**SECTION NO. 3**  
**EXTERNAL WORKS**

**SECTION SUMMARY**

Bill No.	Amount	Page
1	PLUMBING AND DRAINAGE	66
2	EXTERNAL WORKS	71

Carried to Final Summary

Section No. 3  
**SECTION SUMMARY**

**SECTION 4:  
ELECTRICAL  
INSTALLATION**

		Unit	Quantity	Rate	Amount
<b>SECTION NO. 4</b>					
<b>ELECTRICAL INSTALLATION</b>					
<b>BILL NO. 1</b>					
<b>ELECTRICAL WORK</b>					
	Electrical installations, part in general confined position and part in patches, including small quantities, all necessary careful cutting in, disconnecting, making good, new materials, junctions between new with existing materials, preparation of existing to receive new materials and removal from site, etc., where applicable (removal of existing and preparation for new materials, where applicable, and unless otherwise described elsewhere)				
<b>COMPLETE MEDIUM VOLTAGE (MV) AND LOW VOLTAGE (LT) DISTRIBUTION RETICULATION INSTALLATION</b>					
<b>LT CABLES</b>					
1000/6000V PVC/PVC/SWAPVC copper cables, including supply, delivery and installation in cable trenches (trenching and backfilling elsewhere measured), sleeves and cable trays.					
1 4mm <sup>2</sup> x 4 core + 4mm <sup>2</sup> BCEW	m	75			
2 2.5mm <sup>2</sup> x 3 core + 2.5mm <sup>2</sup> BCEW	m	45			
<b>CABLE TERMINATIONS COMPLETE AS DESCRIBED</b>					
<b>Terminations for 600/1000 volt PVC/PVC/SWAPVC copper cables</b>					
3 25mm <sup>2</sup> x 4 core + 25mm <sup>2</sup> BCEW	No	1			
4 4mm <sup>2</sup> x 4 core + 4mm <sup>2</sup> BCEW	No	14			
5 2.5mm <sup>2</sup> x 3 core + 2.5mm <sup>2</sup> BCEW	No	8			
<b>SUNDRIES</b>					
6 Test and commission the complete reticulation installation	Item				
7 Issue electrical consultant with "As Built" drawing for all cables	Item				
Carried to Collection					
Section No. 4					
Bill No. 1					
Electrical Work					

**BILLS OF QUANTITIES PERTAINING TO  
DISTRIBUTION BOARDS AND DISTRIBUTION  
KIOSKS OF THE ELECTRICAL INSTALLATIONS**

**DISTRIBUTION BOARDS**

Service the following distribution boards as described and in positions, complete with all wiring, terminal blocks, labels, anchor bolts, keys, sheet metal tray, frames, sub frames, bus bars, contactors, time switches, switches, and a typed legend card.

	Unit	Quantity	Rate	Amount
8 DB MAIN SUBSTATION (Normal and Emergency)	Item			
9 DB M (Normal and Emergency)	Item			
10 DB A (Normal and Emergency)	Item			
11 DB B (Normal and Emergency)	Item			
12 Transformer	Item			

Allow for testing, balancing and commissioning of the complete electrical installations in the following of areas

13 DB MAIN SUBSTATION (Normal and Emergency)	Item
14 DB M (Normal and Emergency)	Item
15 DB A (Normal and Emergency)	Item
16 DB B (Normal and Emergency)	Item
17 Transformer	Item
18 DB PLANT	Item

**CERTIFICATE OF COMPLIANCE**

Provide a Certificate of Compliance by an accredited person for the distribution board installations

19 DB MAIN SUBSTATION (Normal and Emergency)	Item
20 DB M (Normal and Emergency)	Item
21 DB A (Normal and Emergency)	Item
22 DB B (Normal and Emergency)	Item
23 Transformer	Item
24 DB PLANT	Item

Carried to Collection

Section No. 4  
Bill No. 1  
Electrical Work

R

			Unit	Quantity	Rate	Amount
		<b>Supply and install the following distribution boards as described and in positions, complete with all wiring, terminal blocks, labels, anchor bolts, keys, master keys, sheet metal tray frames, sub frames, bus bars, contactors, time switches, switches and a typed legend card</b>				
25	DB PLANT	Weatherproof surface floor mounted with lockable doors (IP65)	No	1		
26	Equipment: DB PLANT	200 Amp triple pole on load isolator	No	1		
27		60 Amp triple pole 5kA circuit breaker Curve 1	No	6		
28		40 Amp triple pole 5kA circuit breaker Curve 1	No	2		
29		60 Amp triple pole contactor	No	6		
30		40 Amp triple pole contactor	No	2		
31		5 Amp single pole 5kA circuit breaker	No	1		
32		Surge lightning arrestors class 1	No	1		
	<b>EXCAVATION AND BACKFILLING</b>	<b>Excavate, backfill and compact in all material including disposal of unsuitable surplus material:</b>				
33	Soft and pickable material.	m <sup>3</sup>	5			
34	Hard material (Provisional).	m <sup>3</sup>	1			
35	Rock (Compressor work) (Provisional)	m <sup>3</sup>	1			
36	Importation of bedding material as instructed by the Engineer (Provisional)	m <sup>3</sup>	1			
	<b>LIGHTING</b>					
	<b>LUMINAIRES AND EQUIPMENT</b>					
	<b>Supply, install and commission luminaires complete with lamps, connections, etc., as specified</b>					
37	Type G (Complete)	No	18			
38	Type E (Service only)	No	15			
39	Type E1 (Service only)	No	12			
40	Type F (Service only)	No	12			
41	Type D (Remove and delivery to DCS)	No	18			
42	Type H (Service only)	No	8			
	Carried to Collection					
Section No. 4						
Bill No. 1						
Electrical Work						

		Unit	Quantity	Rate	Amount
43	Type J (Service only)	No	3		
44	Type J1 (Service only)	No	3		
45	Type O (Service only)	No	1		
	<b>POWER</b>				
46	<u>Service all points complete with cover plate fixed in flush box as described or other approved</u>	Item			
47	All power points	Item			
	<b>SOCKET OUTLETS AND ISOLATORS</b>				
	<u>Supply and install switched socket outlets, isolators etc. complete with cover plate fixed in flush box as per specification:</u>				
48	16 Amp flush mounted single pole switched socket outlet complete with galvanised box and cover.	No	1		
49	16 Amp flush mounted double pole switched socket outlet complete with galvanised box and cover.	No	3		
50	30 Amp double pole isolator complete with galvanised box and cover for extractor fans.	No	1		
51	30/60/100 Amp three pole isolator complete with galvanised box and cover for geysers.	No	6		
	<b>CONDUIT</b>				
	<u>Galvanised conduit including all bends, elbows, saddles, etc. including placing in position for casting into concrete slabs, surface beds, screeds, for building into brickwork, surface mounted on brick walls, fixed in ceiling voids and to partitions, including all necessary chasing and making good afterwards</u>				
52	20mm diameter conduit	m	100		
53	25mm Diameter conduit	m	150		
	<b>CONDUIT BOXES</b>				
	<u>Supply and install conduit boxes:</u>				
54	20mm Round galvanised conduit box.	No	20		
55	100 x 50 x 50mm Galvanised box and blank cover.	No	5		
56	100 x 100 x 50mm Galvanised box and blank cover.	No	2		
Section No. 4	Carried to Collection				
Bill No. 1					
Electrical Work					

			Unit	Quantity	Rate	Amount
<b>ONLY APPLIANCE CONNECTIONS</b>						
<b>Connect only the following appliances</b>						
57	Single phase appliances complete with 1m 20mm diameter "Kopex" flexible PVC conduit, two "Kopex" adaptors, 2x 6mm2 PVC insulated copper conductors and a 4mm2 BCEW from the appliance terminal block		No	1		
58	Three phase appliances complete with 1m 20mm diameter "Kopex" flexible PVC conduit, two "Kopex" adaptors, 4x 6mm2 PVC insulated copper conductors and a 4mm2 BCEW from the appliance terminal block		No	5		
<b>PVC HOUSE WIRE CONDUCTORS</b>						
<b>Supply and install PVC insulated copper conductors including earth wire, drawn into wireways, conduits, etc.</b>						
59	2.5mm2 (Red, Black, Yellow and Green)	m	1	000		
60	4.0mm2 (Red, Black, Yellow and Green)	m	1	000		
61	6.0mm2 (Red, Black, Yellow and Green)	m	1	000		
<b>TESTING AND COMMISSIONING</b>						
62	Testing and commissioning of the complete installation and issuing of Certificate of Compliance (COC)	Item				
<b>EARTHING SYSTEM</b>						
<b>Bonding of water mains:</b>						
63	Bond the existing water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, gutters, and rainwater pipes shall be bonded.	Item				
<b>Cable bonding:</b>						
64	All external earth wires and cable armouring from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars.	Item				
<b>Earth spike:</b>						
65	Supply and install 1.2m copper coated earth spike at every distribution board.	No	4			
<b>Earth mat:</b>						
66	Supply and install 1 Ohm copper earth mat at substation.	No	1			
<b>Carried to Collection</b>						
<b>R</b>						
Section No. 4						
Bill No. 1						
Electrical Work						

		Unit	Quantity	Rate	Amount
					BL24/002
	<b>Testing and commissioning:</b>				
67	Test and commission the complete installation including supplying of test results and as built drawings, manuals, etc.	Item			
	<b>LIGHTNING PROTECTION</b>				
	<b>Sundries</b>				
68	Provide in triplicate, a test certificate of all readings taken on the day of the test.	No			
69	Allow for testing the complete lightning protection installation as described in SANS user code 03 as amended	Item			
	Carried to Collection				
	R				

Section No. 4  
Bill No. 1  
Electrical Work

**BILL NO. 1**  
**ELECTRICAL WORK**  
**COLLECTION**

Page No	
	Brought Forward from Page
74	
75	
76	
77	
78	
79	
80	

Carried To Section Summary

Section No. 4  
Bill No. 1  
Electrical Work

R

**SECTION NO. 4**  
**ELECTRICAL INSTALLATION**  
**SECTION SUMMARY**

Bill No.	Page	Amount
1	80	ELECTRICAL WORK

Carried to Final Summary

Section No. 4  
SECTION SUMMARY

**SECTION 5:  
MECHANICAL  
INSTALLATION**

Section No. 5	MECHANICAL INSTALLATION	BL24/002
BILL NO. 1	KITCHEN EQUIPMENT	
	<b>STAINLESS STEEL KITCHEN PREPARATION AREA EQUIPMENT</b>	
	<b>Servicing and repairs to existing installed kitchen equipment</b>	
	Servicing of existing kitchen equipment should include for, but not limited to all necessary valves, drain pipes, safety valves, switches, etc., executed complete to leave equipment in perfect working order	
	Rates for supply and install should include for non operational apparatus as well as electrical connection, and testing of newly installed equipment	
	<b>CAPDAN COOKER PULSAR TWIN 250</b>	
1	Steram clean and remove all fat and grime	No 2
2	Supply and install emergency stop to unit	No 1
3	Supply and install mixer speed switch	No 1
4	Supply and install element gaskets	No 8
5	Supply and install thermostat	No 1
6	Supply and install plunger limit switch	No 1
7	Supply and install scraper blocks	No 36
8	Refurbish and test safety valve	No 4
9	Supply and install red pilot light	No 1
10	Supply and install liquid level relay	No 1
11	Supply and install 8kW electrical element	No 4
12	Supply and install normally open contact block	No 2
13	Supply and install normally closed contact block	No 2
14	Drain and refill jacket with distilled water and boiler solution	No 2
15	Re-connect domestic water supply	No 2
16	Full commission and testing of unit	No 2
Carried to Collection		
Section No. 5		
Bill No. 1		
Kitchen Equipment		

		Unit	Quantity	Rate	Amount
<b><u>CAPDAN STEAM JACKETED PHUTO POT</u></b>					
17	Steam clean unit and remove all fat and grime	No	2		
18	Supply and install 8kW electrical element	No	6		
19	Supply and install element gasket	No	22		
20	Supply and install liquid level relay	No	1		
21	Refurbish and test safety valve	No	1		
22	Supply and install green pilot light	No	2		
23	Supply and install red pilot light	No	1		
24	Supply and install unit main breaker	No	1		
25	Drain and refill jacket with distilled water and boiler solution	No	9		
26	Re-connect domestic water supply	No	8		
27	Full commission and testing of unit	No	8		
<b><u>80 LITRE TILT PAN</u></b>					
28	Steam clean unit and remove all fat and grime	No	4		
29	Supply and install 32A isolator	No	1		
30	Supply and install thermostat	No	1		
31	Re-connect domestic water supply	No	2		
<b><u>CHASE 40 PAN COMBI STEAMER</u></b>					
32	Steam clean unit and remove all fat and grime	No	3		
33	Supply and install inner lights	No	4		
34	Supply and install spray hose	No	3		
35	Supply and install inner element	No	1		
36	Re-connect domestic water supply	No	3		
37	Supply oven racks	No	20		
38	Full commission and testing of unit	No	3		
<b><u>3 SOLID TOP RANGE WITH OVEN</u></b>					
39	Steam clean unit and remove all fat and grime	No	1		
40	Supply and install 32A isolator	No	1		
41	Full commission and testing of unit	No	1		
<b>Carried to Collection</b>					
Section No. 5					
Bill No. 1					
Kitchen Equipment					

<b>SUNDRY ITEMS</b>					
		Unit	Quantity	Rate	Amount
42	Training of facility maintenance personnel on maintenance of the kitchen equipment. Training session duration of 8 hours	No	1		
43	Training of kitchen staff for operation of equipment. Training session duration of 4 hours	No	1		
44	Issue full set of operation and maintenance manuals	No	1		

BL24/002

Carried to Collection

R

Section No. 5  
Bill No. 1  
Kitchen Equipment

**BILL NO. 1**  
**KITCHEN EQUIPMENT**  
**COLLECTION**

Page No

Brought Forward from Page

83

84

85

Carried To Section Summary

Section No. 5

Bill No. 1

Kitchen Equipment

		Unit	Quantity	Rate	Amount
<b>SECTION NO. 5</b>					
<b>MECHANICAL INSTALLATION</b>					
<b>BILL NO. 2</b>					
<b>AIR CONDITIONING AND VENTILATION</b>					
<b>KITCHEN EXTRACT CANOPY</b>					
1 Steam clean unit and remove all fat and grime	No		1		
<b>Replace galvanised drains to canopy complete with all pipe fittings, connectors, etc.</b>					
2 15mm Galvanised mild steel pipe	m		40		
3 15mm Threaded galvanised elbow	No		20		
4 15mm Threaded galvanised equal tee	No		10		
5 15mm Threaded galvanised female union	No		10		
6 Pipe support brackets	No		20		
7 Stag and hemp for sealing of above mentioned pipe and fittings	No		1		
8 Supply and install 500 x 500mm replacement baffle filter	No		2		
9 Servicing of 710mm axial canopy extract fan	No		5		
<b>EVAPORATIVE COOLERS</b>					
10 Service evaporative cooler unit	No		8		
11 Replacement of evaporative cooler cooling pads/fins	No		8		
<b>Relocation of unit controllers</b>					
12 Supply and install galvanised conduit for support of controller control cables	m		100		
13 Relocation and extension of control cables to 1400mm AFLL	No		8		
14 Testing of controllers after relocation	No		8		
15 Re-connection of evaporative cooler water supply	No		8		
<b>Carried to Collection</b>					
Section No. 5					
Bill No. 2					
Air Conditioning And Ventilation					
87					

		Unit	Quantity	Rate	Amount	BL24/002
16	Supply replacement remote controller	No	2			
17	Full commission and testing of unit	No	8			
18	<b><u>MID WALL SPLIT AIRCONDITIONING UNITS</u></b>					
19	Full service of 5kW mid wall split type air conditioning unit	No	1			
20	Allowance for repairs to condensate drainage	No	1			
21	Treatment of condensor unit corrosion	No	2			
22	Supply replacement remote control unit	No	1			
	<b><u>VENTILATION INSTALLATION</u></b>					
23	Supply and install EAF-10 extract system	No	1			
24	Supply and install EAF-11 extract system	No	1			
25	Service air curtain unit	No	6			
26	Service existing ventilation system wall mounted fan	No	2			
27	Service existing ducted ventilation system fan	No	2			
28	Clean ducted ventilation system air registers	No	11			
29	Commission and balance ducted ventilation system	No	2			
	<b><u>SUNDRY ITEMS</u></b>					
30	Training of facility maintenance personnel on maintenance of the airconditioning and ventilation. Training session duration of 4 hours	No	1			
31	Issue full set of operational and maintenance manuals	No	1			

Section No. 5

Bill No. 2

Air Conditioning And Ventilation

Carried to Collection

R

BILL NO. 2  
AIR CONDITIONING AND VENTILATION  
COLLECTION

Page No

Brought Forward from Page  
87  
88

Carried To Section Summary

R

Section No. 5  
Bill No. 2  
Air Conditioning And Ventilation

89

**SECTION NO. 5**  
**MECHANICAL INSTALLATION**

**BILL NO. 3**

**REFRIGERATION INSTALLATION**

Servicing of existing refrigeration equipment should include for, but not limited to all necessary components, refrigerant piping, valves, drain pipes, safety valves, switches, etc., executed complete to leave equipment in perfect working order  
 Rates for supply and install should include for non operational apparatus as well as electrical connection, and testing of newly installed equipment

**REFUSE AREA**

1 Supply and install 10kW cold room condensor unit suitable for external operation and connection to existing blower coil, complete with anti vibration pads below the unit and with a room operational temperature of 2 degrees celcius No 1

2 Connection of new condensor to blower coil No 1

3 Commissioning and testing of refrigeration system No 1

4 Blu-Chem or similar equal approved treatment to condensor coil No 1

5 Corrosion treatment for condensor casing and equipment No 1

6 Installation of PVC drainage piping for blower coil No 1

**GENERAL FREEZER ROOM**

7 Supply and install 6kW freezer room condensor unit suitable for external operation and connection to existing blower coil, complete with anti vibration pads below the unit and with a room operational temperature of -20 degrees celcius No 1

8 Connection of new condensor to blower coil No 1

9 Commissioning and testing of refrigeration system No 1

10 Blu-Chem or similar equal approved corrosion treatment to condensor coil No 1

11 Corrosion treatment for condensor casing and equipment No 1

12 Installation of PVC drainage piping for blower coil No 1

Carried to Collection

Section No. 5  
 Bill No. 3  
 Refrigeration Installation

			Unit	Quantity	Rate	Amount	BL24/002
13	Replace panels around door		No	1			
	<b><u>GENERAL COLD ROOM</u></b>						
14	Supply and install 10kW cold room condensor unit suitable for external operation and connection to existing blower coil, complete with anti vibration packs, below the unit and with a room operational temperature of 2 degrees celcius		No	1	1	1	
15	Connection of new condensor to blower coil		No	1	1	1	
16	Commissioning and testing of refrigeration system		No	1	1	1	
17	Blu-Chem or similar equal approved corrosion treatment to condensor coil		No	1	1	1	
18	Corrosion treatment for condensor casing and equipment		No	1	1	1	
19	Installation of PVC drainage piping for blower coil		No	1	1	1	
	<b><u>SPECIAL DIETS FREEZER ROOM</u></b>						
20	Supply and install 4kW freezer room condensor unit suitable for external operation and connection to existing blower coil, complete with anti vibration packs, below the unit and with a room operational temperature of -20 degrees celcius		No	1	1	1	
21	Connection of new condensor to blower coil		No	1	1	1	
22	Commissioning and testing of refrigeration system		No	1	1	1	
23	Blu-Chem or similar equal approved corrosion protection to condensor coil		No	1	1	1	
24	Corrosion treatment for condensor casing and equipment		No	1	1	1	
25	Installation of PVC drainage piping to for blower coil		No	1	1	1	
26	Remove and replace freezer room roof panels		No	1	1	1	
27	Replace door hinges and adjust door swing		No	2	2	2	
28	Replace bottom door seal		No	1	1	1	
	<b><u>SPECIAL DIETS COLD ROOM</u></b>						
29	Supply and install 4kW cold room condensor unit suitable for external operation and connection to existing blower coil, complete with anti vibration packs, below the unit and with a room operational temperature of 2 degrees celcius		No	1	1	1	
	Carried to Collection						
Section No. 5							
Bill No. 3							
Refrigeration Installation							

		Unit	Quantity	Rate	Amount	BL24/002
30	Connection of new condensor to blower coil	No	1			
31	Commissioning and testing of refrigeration system	No	1			
32	Blu-Chem or similar equal approved corrosion treatment to blower coil	No	1			
33	Corrosion treatment for condensor casing and equipment	No	1			
34	Installation of PVC drainage piping for blower coil	No	1			
35	Replace door hinges and adjust door swing	No	2			
<b>VEGETABLE STORE</b>						
36	Supply and install 10kW cold room condensor unit suitable for external operation and connection to existing blower coil, complete with anti vibration packs, below the unit and with a room operational temperature of 2 degrees celcius	No	1			
37	Connection of new condensor to blower coil	No	1			
38	Commissioning and testing of refrigeration system	No	1			
39	Blu-Chem or similar equal approved corrosion treatment to condensor coil	No	1			
40	Corrosion treatment for condensor casing and equipment	No	1			
41	Installation of PVC drainage piping for blower coil	No	1			
<b>MEAT RAILS</b>						
42	Supply and installation of meat rails to general freezer room as per detail	No	1			
43	Supply of mobile meat rails as per detail	No	2			
<b>SUNDRY ITEMS</b>						
44	Training of facility maintenance personnel on maintenance of the refrigeration systems with a training session duration of 4 hours	No	1			
45	Replacement of all cold and freezer room light fixture units	No	6			
46	Painting of external refrigerant piping with two coats PVA to match external wall colour	No	1			
47	Issue full set of operation and maintenance manuals	No	1			
<b>R</b>						
Section No. 5		Carried to Collection				
Bill No. 3						
Refrigeration Installation						
92						

**BILL NO. 3**  
**REFRIGERATION INSTALLATION**  
**COLLECTION**

Page No

Brought Forward from Page 90

91

92

93

Carried To Section Summary

R

Section No. 5  
Bill No. 3  
Refrigeration Installation

93

		Unit	Quantity	Rate	Amount
<b>SECTION NO. 5</b>					
<b>MECHANICAL INSTALLATION</b>					
<b>BILL NO. 4</b>					
<b>HOT WATER INSTALLATION</b>					
	Servicing of existing heat pump equipment should include for, but not limited to all necessary equipment, drain pipes, safety valves, switches, etc., executed complete to leave equipment in perfect working order Rates for supply and install should include for non operational apparatus as well as electrical connection, and testing of newly installed equipment				
	<b>HEAT PUMP INSTALLATION</b>				
1	Supply and install 17kW heat pump unit compatible with existing controls to SIRAC LSQ05R unit	No	1	1	
2	Service existing SIRAC LSQ05R heat pump	No	1	1	
3	Commissioning of heat pump controls	No	1	1	
4	Corrosion treatment for existing heat pump casing	No	1	1	
5	Painting of external hot water piping insulation with two coats PVA to match external wall colour	No	1	1	
	<b>HOT WATER RETICULATION</b>				
6	Service and commission hot water circulation pump set	No	1	1	
7	Insulation of hot water piping in plant room	No	1	1	
8	Allowance for rectification of insulation inside the facility	No	1	1	
9	Connection of fixture units to hot water. Number to be confirmed on site.	No	1	1	
	<b>SUNDRY ITEMS</b>				
10	Replacement of kitchen equipment water supplies with class 2 copper piping	No	1	1	
11	Issue full set of operational and maintenance manuals	No	1	1	

Carried To Section Summary

Section No. 5

Bill No. 4

Hot Water Installation

**SECTION NO. 5****MECHANICAL INSTALLATION****SECTION SUMMARY**

Bill No.	Amount
1	KITCHEN EQUIPMENT
2	AIR CONDITIONING AND VENTILATION
3	REFRIGERATION INSTALLATION
4	HOT WATER INSTALLATION

Carried to Final Summary

Section No. 5  
**SECTION SUMMARY**

**FINAL SUMMARY**

**FINAL SUMMARY (To be submitted with the other returnable documents)**

<u>Section</u>	<u>Page No.</u>	<u>Amount</u>
1 PRELIMINARIES	29	R
2 REMEDIAL WORKS TO EXITING BUILDINGS	60	R
3 EXTERNAL WORKS	72	R
4 ELECTRICAL INSTALLATION	81	R
5 MECHANICAL INSTALLATION	95	R
<b>SUB-TOTAL</b>		
<b>ADD</b>		
Value Added Tax (15%)		
<b>TOTAL CARRIED TO FORM DPW-07 (EC) FORM OF OFFER AND ACCEPTANCE</b>		
R		
R		
R		

**T 2.2 Returnable documents  
required for tender  
evaluation purposes**

PA-11: BIDDER'S DISCLOSURE

## 1. PURPOSE OF THE FORM

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

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

## 2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest (1) 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 institution
			State

(1) 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.

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

2.2.1 If so, furnish particulars:

Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

3 DECLARATION

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?

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.

3.5 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.

3.6 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.

I am aware that, in addition and without prejudice to any other remedy provided to

2 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.



combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.  
I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

.....

Signature

Date

.....

.....

Position

Name of bidder

This form has been aligned with SBD4

## PA-15.1: RESOLUTION OF BOARD OF DIRECTORS

RESOLUTION of a meeting of the Board of \*Directors / Members / Partners of:

(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at \_\_\_\_\_ (place)  
on \_\_\_\_\_ (date)

**RESOLVED** that:

1. The Enterprise submits a Bid / Tender to the Department of Public Works in respect of the following project:

(Project description as per Bid / Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid / Tender Document)

2. \*Mr/Mrs/Ms:

in \*his/her Capacity as:

and who will sign as follows:

be, and is hereby, authorised to sign the Bid / Tender, and any and all other documents and/or correspondence in connection with and relating to the Bid / Tender, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid / Tender to the Enterprise mentioned above.

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			



PA-15.1: Resolution of Board of Directors

17	
18	
19	
20	

*The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed.*

**Note:**

1. \*Delete which is not applicable.
2. **NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
3. In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares/ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
4. Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares/ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
5. Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

**ENTERPRISE STAMP**

## PA-15.2: RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

**RESOLUTION** of a meeting of the Board of \*Directors / Members / Partners of:

(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at \_\_\_\_\_ (place)

on \_\_\_\_\_ (date)

**RESOLVED** that:

1. The Enterprise submits a Bid /Tender, in consortium/Joint Venture with the following Enterprises:

(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

to the Department of Public Works in respect of the following project:

(Project description as per Bid /Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid / Tender Document)

2. \*Mr/Mrs/Ms:

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows:

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

3. The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.

4. The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address:

\_\_\_\_\_

(code)



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

Telephone number: \_\_\_\_\_ (code) \_\_\_\_\_

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

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

*The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed*

**Note:**

1. \*Delete which is not applicable.
2. **NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
3. In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
4. Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
5. Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

**ENTERPRISE STAMP**

## PA-15.3: SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

**RESOLUTION** of a meeting of the duly authorised representatives of the following legal entities who have entered into a consortium/joint venture to jointly bid for the project mentioned below: (legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)

1. \_\_\_\_\_

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

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

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

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

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

Held at \_\_\_\_\_ (place)  
on \_\_\_\_\_ (date)

**RESOLVED** that:

A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the Department of Public Works in respect of the following project:

(Project description as per Bid/Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid/Tender Document)

### PA-15.3: Special Resolution of Consortia or Joint Ventures

B. \*Mr/Mrs/Ms:

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows:

be, and is hereby, authorised to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

C. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of:

D. The Enterprises to the Consortium/Joint Venture accept joint and several liability for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.

E. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.

F. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.

G. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address:

\_\_\_\_\_ (Postal code)

Postal Address:

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

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

**PA-15.3: Special Resolution of Consortia or Joint Ventures**

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

*The bidding enterprise hereby absolves the Department of Public Works & Infrastructure from any liability whatsoever that may arise as a result of this document being signed.*

**Note:**

1. \*Delete which is not applicable.
2. **NB:** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the consortium/joint venture submitting this tender, as named in item 2 of Resolution PA-15.2.
3. Should the number of the Duly Authorised Representatives of the Legal Entities joining forces in this tender exceed the space available above, additional names, capacity and signatures must be supplied on a separate page.
4. Resolution PA-15.2, duly completed and signed, from the separate Enterprises who participate in this consortium/joint venture, must be attached to this Special Resolution (PA-15.3).

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION  
2022



**PA-16: 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 Preference Points System to be applied**

*(Tick whichever is applicable).*

- The applicable preference point system for this tender is the 80/20 preference point system.
- The applicable preference point system for this tender is the 90/10 preference point system.
- 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 shall be awarded for:**

**1.3.1 Price; and**

**1.3.2 Specific Goals**

**1.4 The maximum points for this tender are allocated as follows:**

CHOOSE APPLICABLE PREFERENCE POINT SCORING SYSTEM	<input checked="" type="checkbox"/> 80/20	<input type="checkbox"/> 90/10
PRICE	80	
SPECIFIC GOALS	20	
<b>Total points for Price and Specific Goals</b>	<b>100</b>	

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION  
2022

**1.5 Breakdown Allocation of Specific Goals Points**

**1.5.1 For Procurement transactions with rand value greater than R2 000,00 and up to R1 Million (inclusive of all applicable taxes), the specific goals as listed in table 1 below are applicable.**

**All Acquisitions**

Table 1

Serial No	Specific Goals	Preference Points allocated out of 20	Documentation to be submitted by bidders to validate their claim for points
1.	An EME or QSE which is at least 51% owned by black people	10	ID Copy Or SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or CSD Report Or CIPC (company registration)
2.	Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area  (FREE STATE)	2	Office Statement Municipal Rates Or Permission To Occupy from local chief in case of rural areas (PTO) Or Lease Agreement
3.	An EME or QSE which is at least 51% owned by women	4	ID Copy Or CSD Report Or CIPC (company registration)

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION**  
**2022**

<b>Serial No</b>	<b>Specific Goals</b>	<b>Preference Points allocated out of 20</b>	<b>Documentation to be submitted by bidders to validate their claim for points</b>
4.	An EME or QSE which is at least 51% owned by people with disability	2	Medical Certificate Or South African Social Security Agency (SASSA) registration Or National Council for Persons with Physical Disability in South Africa registration (NCPDPA)
5.	An EME or QSE which is at least 51% owned by youth.	2	ID Copy Or CSD Report Or CIPC (company registration)

**1.5.2 For procurement transactions with rand value greater than R1 Million and up to R50 Million (inclusive of all applicable taxes) the specific goals as listed in table 2 below are applicable:**

**All Acquisitions**

**Table 2**

<b>Serial No</b>	<b>Specific Goals</b>	<b>Preference Points allocated out of 20</b>	<b>Documentation submitted by bidders to validate their claim for points</b>
1.	An EME or QSE or any entity which is at least 51% owned by Historically Disadvantaged Individuals (HDI)	10	ID Copy Or SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or CSD Report

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION  
2022

Serial No	Specific Goals	Preference Points allocated out of 20	Documentation submitted by bidders to validate their claim for points
2.	Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area	2	Office Statement Or CIPC (company registration)
3.	(Free State) An EME or QSE or any entity which is at least 51% owned by women	4	Municipal Rates Or Permission To Occupy from local chief in case of rural areas (PTO) Or Lease Agreement
4.	An EME or QSE or any entity which is at least 51% owned by people with disability	2	Medical Certificate Or CSD Report Or CIPC (company registration)
5.	An EME or QSE or any entity which is at least 51% owned by youth.	2	ID Copy Or CSD Report Or CIPC (company registration)

**1.5.3 For procurement transactions with rand value greater than R50 Million (Inclusive of all applicable taxes) the specific goals as listed in table 3 below are applicable**

**All Acquisitions**

**Table 3**

Serial No	Specific Goals	Preference Points allocated out of 10	Documentation to be submitted by bidders to validate their claim for points
1.	An EME or QSE or any entity which is at least 51% owned by Historically Disadvantaged Individuals (HDI)	4	ID Copy Or SANAS Accredited BBBEE Certificate or sworn affidavit where applicable Or CSD Report Or CIPC (company registration)
2.	Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area  	2	Office Municipal Rates Statement Or Permission To Occupy from local chief in case of rural areas (PTO) Or Lease Agreement
3.	An EME or QSE or any entity which is at least 51% owned by women	2	ID Copy Or CSD Report Or CIPC (company registration)
4. <input type="checkbox"/>	An EME or QSE or any entity which is at least 51% owned by people with disability	2	Medical Certificate Or

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION  
2022

Serial No	Specific Goals	Preference Points allocated out of 10	Documentation submitted by bidders to validate their claim for points
	<p>OR</p> <p>5. <input type="checkbox"/> An EME or QSE or any entity which is at least 51% owned by <b>youth</b>.</p> <p>(only one specific goal is applicable between specific goal number 4 and specific goal number 5 under 90/10 Preference Point System)</p>		<p>South African Social Security Agency (SASSA) registration Or National Council for Persons with Physical Disability in South Africa registration (NCPPDSA)</p> <p>ID Copy Or CSD Report Or CIPC (company registration)</p>
1.6	<p>Failure on the part of the tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals, if the service provider/ tenderer did not submit proof or documentation required to claim for specific goals will be interpreted to mean that preference points for specific goals are not claimed.</p>		
1.7	<p>The organ of state reserves the right to require of a service provider/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.</p>		

**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.

### 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:

$$PS = 80 \left(1 - \frac{Pt - P_{min}}{P_{min}}\right) \text{ or } PS = 90 \left(1 - \frac{Pt - P_{min}}{P_{min}}\right)$$

Mere

$$P_S = 80 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right) \text{ or } P_S = 90 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right)$$

P <sub>s</sub>	=	Points scored for price of tender Under
P <sub>t</sub>	=	Price of tender under consideration
P <sub>min</sub>	=	Price of lowest acceptable tender

## FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

### 3.2.1. POINTS AWARDED FOR PRICE

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

80/20  
or  
90/10

Where

Ps	=	Points scored for price of tender under consideration
Pt	=	Price of tender under consideration
Pmax	=	Price of highest acceptable tender

#### **4. POINTS AWARDED FOR SPECIFIC GOALS**

4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1,2 and 3 above as may be supported by proof/ documentation stated in the conditions of this tender.

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION

2022

4.2.

In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
- (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system)	Number of points allocated (80/20 system)	Number of points claimed (90/10 system)	Number of points claimed (80/20 system)
	(To be completed by the organ of state)	(To be completed by the organ of state)	(To be completed by the tenderer)	(To be completed by the tenderer)
1. An EME or QSE or any entity which is at least 51% owned by Historically Disadvantaged Individuals (HDI)	4	10		
2. Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area (FREE STATE)	2	2		
3. An EME or QSE or any entity which is at least 51% owned by women	2	4		

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION  
2022

<b>The specific goals allocated points in terms of this tender</b>	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
4. An EME or QSE or any entity which is at least 51% owned by people with disability <b>or</b>	2	2		
5. An EME or QSE or any entity which is at least 51% owned by youth.* <b>(only one specific goal is applicable between specific goal number 4 and specific goal number 5 under 90/10 Preference Point System)</b>		2		

**Note:** \*in respect of the 90/10 point system a selection of either disability or youth may be made with an allocation of 2 points for either of them.

**DECLARATION WITH REGARD TO COMPANY/FIRM**

- 4.3. Name of company/firm.....
- 4.4. Company registration number: .....
- 4.5. **TYPE OF COMPANY/ FIRM**
  - Partnership/Joint Venture / Consortium
  - One-person business/sole proprietor
  - Close corporation
  - Public Company
  - Personal Liability Company
  - (Pty) Limited
  - Non-Profit Company
  - State Owned Company

[TICK APPLICABLE BOX]
- 4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm,

**PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATION  
2022**

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> .....	

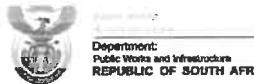
## DPW-09 (EC): PARTICULARS OF TENDERER'S PROJECTS

Project title:	<i>Groenpunt Medium Prison: Upgrading of existing kitchen and conversion from steam to electrical (Completion contract)</i>		
Tender / quotation no:	BL24/002	Closing date:	20 February 2024
Advertising date:	26 January 2024	Validity period:	84 days

### 1. PARTICULARS OF THE TENDERER'S CURRENT AND PREVIOUS COMMITMENTS

#### 1.1. Current projects

Projects currently engaged in	Name of Employer or Representative of Employer	Contact tel. no.	Contract sum	Contractual commencement date	Contractual completion date	Current percentage progress
1						
2						
3						
4						
5						
6						
7						
8						



Tender no: BL24/002

1.2. Completed projects

Projects completed in the previous 5 (five) years		Name of Employer or Representative of Employer	Contact tel. no.	Contract sum	Contractual commencement date	Contractual completion date	Date of Certificate of Practical Completion
1							
2							
3							
4							
5							
6							
7							
8							
9							

Name of Tenderer	Signature	Date



## Public Works & Infrastructure

Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

# DECLARATION – EPWP PROGRAMME

I \_\_\_\_\_ from company \_\_\_\_\_

Hereby Undertake To Comply To:

## 1. LABOUR INTENSIVE CONSTRUCTION METHODS (LIC)

1.1 Comply To Implementation Of LIC BOQ Items Specified Elsewhere In The Tender Documents.

## 2. RECRUITMENT AND PLACEMENT OF EPWP NYS PARTICIPANTS (NOT APPLICABLE)

2.1 Recruitment, Placement And Exposure Training Of 25 (Twenty Five) Participants

2.2 Comply To EPWP BOQ, Specifications And Code Of Good Practice

## 3. RECRUITMENT AND PLACEMENT OF LOCAL LABOURERS

3.1 Recruitment And Placement Of minimum 5 Five Local Labourers

3.2 Comply With Applicable Wage Order/Determination or Agreement, In Terms of Labour Relations Act or Wage Act

## 4. COMPLY TO EPWP MONTHLY REPORTING REQUIREMENTS

Monthly prepare and submit below EPWP reports attached to monthly payments certificate:

4.1 All Employees and EPWP Participants Contracts

4.2 All Employees and EPWP Participants Certified SA ID Copies

4.3 All Employees and EPWP Attendance Register

4.4 All Employees and EPWP Proof of Payment

4.5 EPWP Reports Populated on Standard Templates

## 5. PENALTIES FOR NON COMPLIANCE

Acknowledge Non Compliance Penalty of R3000-00 (Three thousand rand) Per Month Per Participant

Signed by \_\_\_\_\_  
Director of the Company \_\_\_\_\_

Company name \_\_\_\_\_

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

**T 2.2 Returnable documents  
that will be incorporated into  
the contract**

# Where Owners are themselves a Company, Close Corporation, Partnership etc, identify the ownership of the Holding Company, together with Registration number  
# State date of South Africa citizenship obtained (not applicable to persons born in South Africa)

LIST ALL PROPERTY OWNERS, MEMBERS OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP AND DESIGNATED GROUPS.

Name of Tenderer .....  EMEI  QSEZ  Non EME/QSE (tick applicable box)

Tender no: BL24/002

**PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL TREATMENT**

Signed by the Tenderer	Name of representative	Signature	Date

2. DECLARATION:  
The undersigned, who warrants that he/she is duly authorized to do so on behalf of the Tenderer, hereby confirms that:

1 The information and particulars contained in this Affidavit are true and correct in all respects;

2 The Broad-based Black Economic Empowerment Act, 2003 (Act 53 of 2003), Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000), the Preferential Procurement Regulations, 2017, National Small Business Act 102 of 1996 as amended and all documentation pertaining to this Tender were studied and understood and that the above form was completed according to the definitions and information contained in said documents;

3 The Tenderer understands that any intentional misrepresentation or fraudulent information provided herein shall disqualify the Tenderer's offer herein, as well as any other tender offer(s) of the Tenderer simultaneously being evaluated, or will entitle the Employer to cancel any Contract resulting from the Tenderer's offer be set by the later;

4 The Tenderer accepts that the Employer may exercise any other remedy it may have in law and in the Contract, including a claim for damages for having to accept herein;

5 Any further documentary proof required by the Employer regarding the information provided herein, will be submitted to the Employer within the time period as may a less favourable tender as a result of any such disqualification due to misrepresentation or fraudulent information provided herein;

Tender no: BL24/002



## DPW-21 (EC): RECORD OF ADDENDA TO TENDER DOCUMENTS

Project title:	<i>Groenpunt Medium Prison: Upgrading of existing kitchen and conversion from steam to electrical (Completion contract)</i>	
Tender no:	BL24/002	Reference no: 6747/0307/26/4

1. I / We confirm that the following communications received from the Department of Public Works and Infrastructure before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer. (Attach additional pages if more space is required)

Date	Title or Details	
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		

Name of Tenderer	Signature	Date

2. I / We confirm that no communications were received from the Department of Public Works and Infrastructure before the submission of this tender offer, amending the tender documents.

Name of Tenderer	Signature	Date



## DPW-15 (EC): SCHEDULE OF PROPOSED SUBCONTRACTORS

<b>Project title:</b>	<b>Groenpunt Medium Prison: Upgrading of existing kitchen and conversion from steam to electrical (Completion contract)</b>	
<b>Tender no:</b>	BL24/002	<b>Reference no:</b> 6747/0307/26/4

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

We confirm that all subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

We confirm that all subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.		

Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor
1		
2		
3		
4		
5		

Name of representative	Signature	Capacity	Date
Name of organisation:			

## DPW-22 (EC): PARTICULARS OF ELECTRICAL CONTRACTOR

Project title:	<i>Groenkloof Medium Prison: Upgrading of existing kitchen and conversion from steam to electrical (Completion contract)</i>		
Tender no:	BL24/002	Reference no:	6747/0307/26/4

Name of Electrical Contractor:			
Address:			
Electrical Contractor registration number at the Department of Labour			
Name of Tenderer	Signature	Date	

## DPW-23 (EC): SCHEDULE FOR IMPORTED MATERIALS AND EQUIPMENT

Project title:	<i>Groenpunt Medium Prison: Upgrading of existing kitchen and conversion from steam to electrical (Completion contract)</i>	
Tender no.:	BL24/002	Reference no.: 6747/0307/20/4

This schedule should be completed by the tenderer. (Attach additional pages if more space is required)

Item	Material / Equipment	Rand (R) (Excluding VAT)
1.		R
2.		R
3.		R
4.		R
5.		R
6.		R

**The Contractor shall list imported items, materials and/or equipment which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only.** Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Principal Agent / Engineer of the Department of Public Works and Infrastructure within 60 (sixty) days from the date of acceptance of the tender. No adjustment of the local VAT amount, nor the contractor's profit, discount, mark-up, handling costs, etc. shall be allowed.

These net amounts will be adjusted as follows:

### FORMULA:

The net amount to be added to or deducted from the contract sum:

$$A = V \left( \frac{Z}{Y} - 1 \right)$$

A = the amount (R) of adjustment

V = the net amount (supplier's quotation) (R) of the imported item

Y = exchange rate at the closing date of tender submission

Z = exchange rate on the date of payment.

Name of Tenderer	Signature	Date
------------------	-----------	------

**T 2.2 Returnable  
documents: Other  
documents that will be  
incorporated into the  
contract**



# public works

Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

## BILLS OF QUANTITIES & SPECIFICATION FOR COMPREHENSIVE SERVICES INCORPORATING ELECTRICAL INSTALLATIONS

AT

### GROENPUNT CORRECTIONAL SERVICES MEDIUM B KITCHEN (COMPLETION PROJECT)

CONSISTING OF:

PART B: ELECTRICAL WORK

SECTION 1: Electrical Installation

See separate documents for:

PART A. Building work  
PART C. Mechanical work  
PART E. Returnable schedules

**QUANTITY SURVEYOR**  
*Quantity Surveying Africa*  
Contact: Henning Olivier

**ELECTRICAL ENGINEER**  
*BVi Consulting Engineers*  
Contact: J Boshoff  
P.O. Box 12441  
BRANDHOF  
9324

Tel. No. (011) 477 7403

JUNE 2022

**INDEX****PAGE NO.**

NOTICE TO TENDERERS .....	1
SPECIFICATION FOR ELECTRICAL WORK .....	2
PART 1 - GENERAL .....	4
PART 2: INSTALLATION DETAILS .....	12
PART 3: QUALITY SPECIFICATION FOR MATERIALS AND EQUIPMENT OF ELECTRICAL INSTALLATIONS .....	24
PART 4: BILLS OF QUANTITIES (APPENDIX 4) .....	25
PART 5: ELECTRICAL WORK MATERIAL SCHEDULE .....	26
SCHEDULE OF IMPORTED MATERIALS AND EQUIPMENT TO BE COMPLETED BY TENDERER .....	27
PARTICULARS OF ELECTRICAL CONTRACTOR .....	28
PART 6: DRAWINGS .....	29

**PART B: ELECTRICAL WORK**

**NOTICE TO TENDERERS**

1. The tenderer for the principal contract shall submit additional information regarding the installer of the Electrical Installation together with the returnables enclosed with the tender enquiry documents
2. The Contractor, on acceptance of his tender for the principal contract shall submit within the period stated, the information indicated on the forms following immediately after the Summary of the bills of quantities for this installation.

## SPECIFICATION FOR ELECTRICAL WORK

### PART 1 - GENERAL

#### CONTENTS

1	TESTS .....	4
2	MAINTENANCE OF INSTALLATIONS .....	4
3	REGULATIONS .....	4
4	NOTICES AND FEES .....	4
5	SCHEDULE OF FITTINGS .....	4
6	QUALITY OF MATERIALS .....	4
7	CONDUIT AND ACCESSORIES .....	4
8	CONDUIT IN ROOF SPACES .....	5
9	SURFACE MOUNTED CONDUIT .....	6
10	CONDUIT IN CONCRETE SLABS .....	6
11	FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC .....	7
12	WIRING: .....	7
13	SWITCHES AND SOCKET OUTLETS .....	7
14	SWITCHGEAR .....	8
15	SWITCHBOARDS .....	8
16	WORKMANSHIP AND STAFF .....	8
17	CERTIFICATE OF COMPLIANCE .....	8
18	EARTHING OF INSTALLATION .....	8
19	MOUNTING AND POSITIONING OF LUMINAIRES .....	10

## **PART 1 - GENERAL**

### **1 TESTS**

After completion of the works and before first delivery is taken, a full test will be carried out on the installation for a period of sufficient duration to determine the satisfactory working thereof. During this period the installations will be inspected and the Contractor shall make good, to the satisfaction of the Representative/Agent, any defects which may arise.

The Contractor shall provide all instruments and equipment required for testing and any water, power and fuel required for the commissioning and testing of the installations at completion.

### **2 MAINTENANCE OF INSTALLATIONS**

With effect from the date of the First Delivery Certificate the Contractor shall at his own expense undertake the regular servicing of the installation during the maintenance period and shall make all adjustments necessary for the correct operation thereof.

If during the said period the installations is not in working order for any reason for which the Contractor is responsible, or if the installations develops defects, he shall immediately upon being notified thereof take steps to remedy the defects and make any necessary adjustments.

Should such stoppages however be so frequent as to become troublesome, or should the installations otherwise prove unsatisfactory during the said period the Contractor shall, if called upon by the Representative/Agent or the Director-General, at his own expense replace the whole of the installations or such parts thereof as the Representative/Agent or the Director-General may deem necessary with apparatus specified by the Representative/Agent or the Director-General.

### **3 REGULATIONS**

The installation shall be erected and tested in accordance with the Acts and Regulations as indicated in the scope of works

### **4 NOTICES AND FEES**

The Contractor shall give all notices required by and pay all necessary fees, including any inspection fees, which may be due to the local Supply Authority.

On production of the official account, only the net amount of the fee charged by the Supply Authority for connection of the installation to the supply mains, will be refunded to the Contractor by the Department.

### **5 SCHEDULE OF FITTINGS**

In all instances where schedule of light, socket outlet and power points are attached to or included on the drawings, these schedules are to be regarded as forming part of the specification.

### **6 QUALITY OF MATERIALS**

Only materials of first class quality shall be used and all materials shall be subject to the approval of the Department. Departmental specifications for various materials to be used on this Contract are attached to and form part of this specification.

Wherever applicable the material is to comply with the relevant South African Bureau of Standards, specifications, or to British Standard Specifications, where no SABS Specifications exist.

Materials wherever possible, must be of South African manufacture.

### **7 CONDUIT AND ACCESSORIES**

The type of conduit and accessories required for the service, i.e. whether the conduit and accessories shall be of the screwed type, plain-end type or of the non-metallic type and whether metallic conduit shall

be black enamelled or galvanised is specified in Part 2 of this specification.

Unless other methods of installation are specified for certain circuits, the installation shall be in conduit throughout. No open wiring in roof spaces or elsewhere will be permitted.

The conduit and conduit accessories shall comply fully with the applicable SABS specifications as set out below and the conduit shall bear the mark of approval of the South African Bureau of Standards.

- a) Screwed metallic conduit and accessories: SABS 1065, parts 1 and 2.
- b) Plain-end metallic conduit and accessories: SABS 1065, parts 1 and 2.
- c) Non-metallic conduit and accessories: SABS 950

All conduit fittings except couplings, shall be of the inspection type. Where cast metal conduit accessories are used, these shall be of malleable iron. Zinc base fittings will not be allowed.

Bushes used for metallic conduit shall be brass and shall be provided in addition to locknuts at all points where the conduit terminates at switchboards, switch-boxes, draw-boxes, etc.

Draw-boxes are to be provided in accordance with the "Wiring Code" and wherever necessary to facilitate easy wiring.

For light and socket outlet circuits, the conduit used shall have an external diameter of 20mm. In all other instances the sizes of conduit shall be in accordance with the "Wiring Code" for the specified number and size of conductors, unless otherwise directed in part 2 of this specification or indicated on the drawings.

Only one manufactured type of conduit and conduit accessories will be permitted throughout the installation.

Running joints in screwed conduit are to be avoided as far as possible and all conduit systems shall be set or bent to the required angles. The use of normal bends must be kept to a minimum with exception of larger diameter conduits where the use of such bends is essential.

All metallic conduit shall be manufactured of mild steel with a minimum thickness of 1,2mm for plain-end conduit and 1,6mm in respect of screwed conduit.

Under no circumstances will conduit having a wall thickness of less than 1,6mm be allowed in screeding laid on top of concrete slabs.

Bending and setting of conduit must be done with special bending apparatus manufactured for the purpose and which are obtainable from the manufacturers of the conduit systems. Damage to conduit resulting from the use of incorrect bending apparatus or methods applied must on indication by the Department's inspectorate staff, be completely removed and rectified and any wiring already drawn into such damaged conduits must be completely renewed at the Contractor's expense.

Conduit and conduit accessories used for flame-proof or explosion proof installations and for the suspension of luminaires as well as all load bearing conduit shall in all instances be of the metallic screwed type.

All conduit and accessories used in areas within 50 km of the coast shall be galvanised to SABS 763.

Tenderers must ensure that general approval of the proposed conduit system to be used is obtained from the local electricity supply authority prior to the submission of their tender. Under no circumstances will consideration be given by the Department to any claim submitted by the Contractor, which may result from a lack of knowledge in regard to the supply authority's requirements.

## **CONDUIT IN ROOF SPACES**

Conduit in roof spaces shall be installed parallel or at right angles to the roof members and shall be secured at intervals not exceeding 1,5m by means of saddles screwed to the roof timbers.

Nail or crampets will not be allowed.

Where non-metallic conduit has been specified for a particular service, the conduit shall be supported and fixed with saddles with a maximum spacing of 450 mm. The Contractor shall supply and install all additional supporting timbers in the roof space as required.

Under flat roofs, in false ceilings or where there is less than 0.9m of clearance, or should the ceilings be insulated with glass wool or other insulating material, the conduit shall be installed in such a manner as to allow for all wiring to be executed from below the ceilings.

Conduit runs from distribution boards shall, where possible terminate in fabricated sheet steel draw-boxes installed directly above or in close proximity to the boards.

## **9 SURFACE MOUNTED CONDUIT**

Wherever possible, the conduit installation is to be concealed in the building work; however, where unavoidable or otherwise specified under Part 2 of the specification, conduit installed on the surface must be plumbed or levelled and only straight lengths shall be used.

The use of inspection bends is to be avoided and instead the conduit shall be set uniformly and inspection coupling used where necessary.

No threads will be permitted to show when the conduit installation is complete, except where running couplings have been employed.

Running couplings are only to be used where unavoidable, and shall be fitted with a sliced couplings as a lock nut.

Conduit is to be run on approved spaced saddles rigidly secured to the walls.

Alternatively, fittings, tees, boxes, couplings etc., are to be cut into the surface to allow the conduit to fit flush against the surface. Conduit is to be bedded into any wall irregularities to avoid gaps between the surface and the conduit.

Crossing of conduits is to be avoided, however, should it be necessary purpose-made metal boxes are to be provided at the junction. The finish of the boxes and positioning shall be in keeping with the general layout.

Where several conduits are installed side by side, they shall be evenly spaced and grouped under one purpose-made saddle.

Distribution boards, draw-boxes, industrial switches and socket outlets etc., shall be neatly recessed into the surface to avoid double sets.

In situations where there are no ceilings the conduits are to be run along the wall plates and the beams.

Painting of surface conduit shall match the colour of the adjacent wall finishes.

Only approved plugging materials such as aluminium inserts, fibre plugs, plastic plugs, etc., and round-head screws shall be used for fixing saddles, switches, socket outlets, etc., to walls, wood plugs and the plugging in joints in brick walls are not acceptable.

## **10 CONDUIT IN CONCRETE SLABS**

In order not to delay building operations the Contractor must ensure that all conduits and other electrical equipment which are to be cast in the concrete columns and slabs are installed in good time.

The Contractor shall have a representative in attendance at all times when the casting of concrete takes place.

Draw-boxes, expansion joint boxes and round conduit boxes are to be provided where necessary. Sharp bends of any nature will not be allowed in concrete slabs.

Draw and/or inspection boxes shall be grouped under one common cover plate, and must preferable be installed in passages or male toilets.

All boxes, etc., are to be securely fixed to the shuttering to prevent displacement when concrete is cast. The conduit shall be supported and secured at regular intervals and installed as close as possible to the neutral axis of concrete slabs and/or beams.

Before any concrete slabs are cast, all conduit droppers to switchboards shall be neatly spaced and rigidly fixed.

## **11 FLEXIBLE CONNECTIONS FOR CONNECTING UP OF STOVES, MACHINES, ETC.**

Flexible tubing connections shall be of galvanised steel construction, and in damp situations of the plastic sheathed galvanised steel type. Other types may only be used subject to the prior approval of the Department's site electrical representative.

Connectors for coupling onto the flexible tubing shall be of the gland or screw-in types, manufactured of either brass or cadmium or zinc plated mild steel, and the connectors after having been fixed onto the tubing, shall be durable and mechanically sound.

Aluminium and zinc alloy connectors will not be acceptable.

## **12 WIRING:**

Except where otherwise specified in Part 2 of this specification, wiring shall be carried out in conduit throughout. Only one circuit per conduit will be permitted.

No wiring shall be drawn into conduit until the conduit installation has been completed and all conduit ends provided with bushes. All conduits to be clear of moisture and debris before wiring is commenced.

Unless otherwise specified in Part 2 of this specification or indicated on the service drawings, the wiring of the installation shall be carried out in accordance with the "Wiring Code". Further to the requirements concerning the installation of earth conductors to certain light points as set out in the "Wiring Code", it is a specific requirement of this document that where plain-end metallic conduit or non-metallic conduit has been used, earth conductors must be provided and drawn into the conduit with the main conductors to all points, including all luminaires and switches throughout the installation.

Wiring for lighting circuits is to be carried out with 1,5mm<sup>2</sup> conductors and a 1,5mm<sup>2</sup> earth conductor. For socket outlet circuits the wiring shall comprise 4mm<sup>2</sup> conductors and a 2,5mm<sup>2</sup> earth conductor. In certain instances, as will be directed in Part 2 of this specification, the sizes of the aforementioned conductors may be increased for specified circuits. Sizes of conductors to be drawn into conduit in all other instances, such as feeders to distribution boards, power points etc., shall be as specified elsewhere in this specification or indicated on the drawings. Sizes of conductors not specified must be determined in accordance with the "Wiring Code".

The loop-in system shall be followed throughout, and no joints of any description will be permitted.

The wiring shall be done in PVC insulated 600/1000 V grade cable to SABS 150.

Where cable ends connect onto switches, luminaires etc., the end strands must be neatly and tightly twisted together and firmly secured. Cutting away of wire strands of any cable will not be allowed.

## **13 SWITCHES AND SOCKET OUTLETS**

All switches and switch-socket outlet combination units shall conform to the Department Quality Specifications, which form part of this specification.

No other than 16 A 3 pin sockets are to be used, unless other special purpose types are distinctly

specified or shown on the drawings.

All light switches shall be installed at 1,4m above finished floor level and all socket outlets as directed in the Schedule of Fittings which forms part of this specification or alternatively the height of socket outlets may be indicated on the drawings.

#### **14 SWITCHGEAR**

Switchgear, which includes circuit breakers, iron-clad switches, interlocked switch-socket outlet units, contactors, time switches, etc., is to be in accordance with the Departmental Quality Specifications which form part of this specification and shall be equal and similar in quality to such brands as may be specified.

For uniform appearance of switchboards, only one approved make of each of the different classes of switchgear mentioned in the Quality Specifications shall be used throughout the installations.

#### **15 SWITCHBOARDS**

All boards shall be in accordance with the types as specified, be constructed according to the detail or type drawings and must be approved by the Department before installation.

In all instances where provision is to be made on boards for the supply authority's main switch and/or metering equipment the contractor must ensure that all requirements of the authorities concerned in this respect are met.

Any construction or standard type aboard proposed, as an alternative to that specified must have the prior approval of the Department.

All busbars, wiring, terminals, etc., are to be adequately insulated and all wiring is to enter the switchgear from the back of the board. The switchgear shall be mounted within the boards to give a flush front panel. Cable and boxes and other ancillary equipment must be provided where required.

Clearly engraved labels are to be mounted on or below every switch. The working of the labels in English and Afrikaans, is to be according to the lay-out drawings or as directed by the Department's representative and must be confirmed on site. Flush mounted boards to be installed with the top of the board 2,0m above the finished floor level.

#### **16 WORKMANSHIP AND STAFF**

Except in the case of electrical installations supplied by a single-phase electricity supply at the point of supply, an accredited person shall exercise general control over all electrical installation work being carried out.

The workmanship shall be of the highest grade and to the satisfaction of the Department.

All inferior work shall, on indication by the Department's inspecting officers, immediately be removed and rectified by and at the expense of the Contractor.

#### **17 CERTIFICATE OF COMPLIANCE**

On completion of the service, a certificate of compliance must be issued to the Department's Representative/Agent in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993).

#### **18 EARTHING OF INSTALLATION**

##### **Main earthing**

The type of main earthing must be as required by the supply authority if other than the Department, and in any event as directed by the Department's representative, who may require additional earthing to meet test standards.

Where required an earth mat shall be provided, the minimum size, unless otherwise specified, being 1,0m

x 1,0m and consisting of 4mm diameter hard-drawn bare copper wires at 250mm centres, brazed at all intersections.

Alternatively or additionally earth rods or trench earths may be required as specified or directed by the Department's authorised representative.

Installations shall be effectively earthed in accordance with the "Wiring Code" and to the requirements of the supply authority. All earth conductors shall be stranded copper with or without green PVC installation.

Connection from the main earth bar on the main board must be made to the cold water main, the incoming service earth conductor, if any and the earth mat or other local electrode by means of 12mm x 1,60 mm solid copper strapping or 16 mm<sup>2</sup> stranded (not solid) bare copper wire or such conductor as the Department's representative may direct. Main earth copper strapping where installed below 3m from ground level, must be run in 20 mm diameter conduit securely fixed to the walls.

All other hot and cold water pipes shall be connected with 12mm x 0,8mm perforated for solid copper strapping (not conductors) to the nearest switchboard. The strapping shall be fixed to the pipework with brass nuts and bolts and against walls with brass screws at 150-mm centres. In all cases where metal water pipes, down pipes, flues, etc., are positioned within 1,6m of switchboards an earth connection consisting of copper strapping shall be installed between the pipework and the board. In vertical building ducts accommodating both metal water pipes and electrical cables, all the pipes shall be earthed at each distribution board.

#### Roofs, gutters and down pipes

Where service connections consist of overhead conductors, all metal parts of roofs, gutters and down pipes shall be earthed. One bare 10mm<sup>2</sup> copper conductor shall be installed over the full length of the ceiling void, fixed to the top purlin and connected to the main earth conductor and each switchboard. The roof and gutters shall be connected at 15m intervals to this conductor by means of 12mm X 0,8mm copper strapping (not conductors) and galvanised bolts and nuts. Self-tapping screws are not acceptable. Where service connections consist of underground supplies, the above requirements are not applicable.

#### Sub-distribution boards

A separate earth connection shall be supplied between the earth busbar in each sub-distribution board and the earth busbar in the Main Switchboard. These connections shall consist of a bare or insulated stranded copper conductors installed along the same routes as the supply cables or in the same conduit as the supply conductors. Alternatively armoured cables with earth continuity conductors included in the armouring may be utilised where specified or approved.

#### Sub-circuits

The earth conductors of fall sub-circuits shall be connected to the earth busbar in the supply board in accordance with SABS 0142.

#### Ring Mains

Common earth conductors may be used where various circuits are installed in the same wire way in accordance with SABS 0142. In such instances the sizes of earth conductors shall be equivalent to that of the largest current carrying conductor installed in the wire way, alternatively the size of the conductor shall be as directed by the Engineer. Earth conductors for individual circuits branching from the ring main shall be connected to the common earth conductor with T-ferrules or soldered. The common earth shall not be broken.

#### Non-metallic Conduit

Where non-metallic conduit is specified or allowed, the installation shall comply with the Department's standard quality specification for "conduit and conduit accessories".

Standard copper earth conductors shall be installed in the conduits and fixed securely to all metal appliances and equipment, including metal switch boxes, socket-outlet boxes, draw-boxes, switchboards,

luminaires, etc. The securing of earth conductors by means of self-threading screws will not be permitted.

#### **Flexible Conduit**

An earth conductor shall be installed in all non-metal flexible conduit. This earth conductor shall not be installed externally to the flexible conduit but within the conduit with the other conductors. The earth conductor shall be connected to the earth terminals at both ends of the circuit.

#### **Connection**

Under no circumstances shall any connection points, bolts, screws, etc., used for earthing be utilised for any other purpose. It will be the responsibility of the Contractor to supply and fit earth terminals or clamps on equipment and materials that must be earthed where these are not provided.

Unless earth conductors are connected to proper terminals, the end shall be tinned and lagged.

#### **19 MOUNTING AND POSITIONING OF LUMINAIRES**

The Contractor is to note that in the case of board and acoustic tile ceilings, i.e. as opposed to concrete slabs, close co-operation with the building contractor is necessary to ensure that as far as possible the luminaires are symmetrically positioned with regard to the ceiling pattern.

The layout of the luminaires as indicated on the drawings must be adhered to as far as possible and must be confirmed with the Department's representative.

Fluorescent luminaires installed against concrete ceilings shall be screwed to the outlet boxes and in addition 2 x 6mm expansion or other approved type fixing bolts are to be provided. The bolts are to be  $\frac{3}{4}$  of the length of the luminaires apart.

Fluorescent luminaires to be mounted on board ceilings shall be secured by means of two 40mm x No. 10 round head screws and washers. The luminaires shall also be bonded to the circuit conduit by means of locknuts and brass bushes. The fixing screws are to be placed  $\frac{3}{4}$  of the length of the fitting apart.

Earth conductors must be drawn in with the circuit wiring and connected to the earthing terminal of all fluorescent luminaires as well as other luminaires exposed to the weather in accordance with the "Wiring Code".

Incandescent luminaires are to be screwed directly to outlet boxes in concrete slabs. Against board ceilings the luminaires shall be secured to the brandering or joists by means of two 40mm x No. 8 round head screws.

## PART 2: INSTALLATION DETAILS

### CONTENTS

1	CABLE SLEEVE PIPES.....	12
2	NOTICES.....	12
3	ELECTRICAL EQUIPMENT.....	12
4	DRAWINGS.....	12
5	BALANCING OF LOAD.....	12
6	SERVICE CONDITIONS.....	12
7	SWITCHES AND SOCKET OUTLETS.....	12
8	LIGHT FITTINGS AND LAMPS.....	12
9	EARTHING AND BONDING.....	12
10	MAINTENANCE OF ELECTRICAL SUPPLY.....	13
11	EXTENT OF WORK.....	13
12	SUPPLY AND CONNECTION.....	13
13	CONDUIT AND WIRING.....	13
14	POWER POINTS.....	14
15	CLOCK INSTALLATION.....	14
16	CABLES.....	14
17	DISTRIBUTION BOARDS.....	17
18	SUBSTATION.....	18
19	SCHEDULE OF LIGHT FITTINGS.....	18
20	SCHEDULE OF POWER POINTS.....	20
21	SCHEDULE OF CABLES, CONDUIT AND WIRING.....	21
22	SCHEDULE OF DISTRIBUTION BOARDS.....	21
23	SUMMARY OF SWITCHGEAR AND CIRCUITS.....	22

## **PART 2: INSTALLATION DETAILS**

### **1 CABLE SLEEVE PIPES**

Where cables cross under roadways, other services and where cables enter buildings, the cables shall be installed in asbestos-cement pipes, earthenware or high-density polyethylene pipes.

The ends of all sleeves shall be sealed with a non-hardening watertight compound after the installation of cables. All sleeves intended for future use shall likewise be sealed.

### **2 NOTICES**

The Contractor shall issue all notices and make the necessary arrangements with Supply Authorities, the Postmaster-General, S.A. Transport Services, Provincial or National Road Authorities and other authorities as may be required with respect to the installation.

### **3 ELECTRICAL EQUIPMENT**

All equipment and fittings supplied must be in accordance with the attached quality specification (Part 3 of this document), suitable for the relevant supply voltage, and frequency and must be approved by the Department's representative.

### **4 DRAWINGS**

The drawings generally show the scope and extent of the proposed work and shall not be held as showing every minute detail of the work to be executed.

The position of power points, switches and light points that may be influenced by built-in furniture must be established on site, prior to these items being built in.

### **5 BALANCING OF LOAD**

The Contractor is required to balance the load as equally as possible over the multiphase supply.

### **6 SERVICE CONDITIONS**

All plant shall be designed for the climatic conditions appertaining to the service.

### **7 SWITCHES AND SOCKET OUTLETS**

The installation of switches and socket outlets must conform to clause 13 of Part 1 of this specification.

### **8 LIGHT FITTINGS AND LAMPS**

The installation and mounting of luminaires must conform with clause 19 of Part 1 of this specification.

All fittings to be supplied by the Contractor shall have the approval of the Department. Incandescent lamps shall bear the approved mark of the S.A.B.S. and shall have the British light centre length.

The light fittings must be of the type specified in the Schedule of Light Fittings.

### **9 EARTHING AND BONDING**

The Contractor will be responsible for all earthing and bonding of the building and installation. The earthing and bonding is to be carried out strictly as described in clause 18 of Part 1 of this specification and to the satisfaction of the Department's representative.

## 10 MAINTENANCE OF ELECTRICAL SUPPLY

All interruptions of the electrical supply that may be necessary for the execution of the work, will be subject to prior arrangement between the Contractor and the user Department and the Department's representative.

### 11 EXTENT OF WORK

The work covered by this contract comprises the complete electrical installation, in working order, as shown on the drawings and as per this specification, including the supply and installation of all fittings and also the installation of such equipment supplied by the Department.

### 12 SUPPLY AND CONNECTION

The supply to the kitchen will be at 400/230 Volt 50Hz. This low voltage supply is from a local substation that forms part of a medium voltage supply ring.

The Contractor must further arrange in good time with the user client for the installation of a new 800 kVA local supply transformer at the kitchen substation, including all necessary protection and equipment.

The Contractor will be responsible for the supply and installation of the supply cable from the transformer to the main low-tension distribution board (MDB). The size and length of the cable is listed in the Schedule of Cables and measured in the Bills of Quantities.

#### Standby Plant

NOT APPLICABLE

### 13 CONDUIT AND WIRING

Conduit and conduit accessories shall be black enameled/galvanised screwed conduit or black enameled/galvanised plain end conduit in accordance with SABS 162, 763 and 1007 respectively.

All conduits, regardless of the system employed, shall be installed strictly as described in the applicable paragraphs of clauses 4 to 8 of Part 1 of the specification. Wiring of the installation shall be carried out as directed in clause 9 part 1 of this specification.

Where plain end conduit is offered all switches and light fittings must be supplied with a permanent earth terminal for the connection of the earth wire.

Lugs held by switch fixing screws or self tapping screws will not be acceptable.

#### 13.1 Telephone Installation

The Contractor shall allow for the complete installation of all conduits, outlet boxes, TELKOM Distribution boards, sleeve pipes, etc., required for the telephone system as shown on the drawings.

The sizes of all telephone conduits are indicated on the drawings and must be installed in the floor slab. Galvanised steel draw-wires shall be installed in all conduits.

End boxes must consist of a 50mm x 100 mm x 100mm outlet box fitted with suitable blank cover plates, flush mounted 0,4m above floor level.

The TELKOM Distribution Board must consist of a 150mm x 600mm x 600mm metal box and hinged door with a 20mm thick wooden backboard. The board must be flush mounted, 1,37m above the floor.

#### 13.2 Intercom Installation

The supply and installation of the intercom system is not included in this Contract.

The Contractor shall allow for the complete supply and installation of all conduits and outlet boxes required for the intercom installation as shown on the drawings.

The size of all conduits, boxes and mounting heights of the end boxes are indicated on the drawings. Galvanised steel draw-wires shall be installed in all conduits and the boxes fitted with suitable blank cover plates.

### 13.3 Power Trunking

The Contractor shall be responsible for the supply and installation of all power trunking complete with corner pieces, end pieces, junction pieces, supply conduits, cover plates and power outlets as specified and indicated on the drawings.

The power trunking must comply with SABS 1197. The Contractor must ensure that the power trunking is installed to satisfaction of the Department's representative before commencing with the wiring of the power trunking.

### 14 POWER POINTS

Allow for the installation of power points and equipment as listed in the schedule, indicated on the drawings.

### 15 CLOCK INSTALLATION

The complete clock installation including the supply of the clocks is shown on the drawing.

The clocks shall be of the synchronous wall mounted type and must be in accordance with the Departmental Quality Specification.

No recess will be provided for the clocks and the clock movement shall therefore not project beyond the case.

The clock circuit shall be fed from the distribution board and be controlled by means of a 1A miniature circuit breaker. Circuit wiring shall be by means of 2 x 1,5mm<sup>2</sup> PVC conductors in 20mm diameter conduit and are to terminate at each point with a circular conduit box, built flush into the walls at a height of 2,5m above floor level.

### 16 CABLES

The Contractor shall supply and completely install all distribution cables as indicated on the drawings, and listed in the Schedule of Cables.

The storage, transportation, handling and laying of the cables shall be according to first class practice, and the contractor shall have adequate and suitable equipment and labour to ensure that no damage is done to cables during such operations.

The cable-trenches shall be excavated to a depth of 0,9m deep below ground level and shall be 450mm wide for one to three cables, and the width shall be increased where more than three cables are laid together so that the cables may be placed at least two cable diameters apart throughout the run. The bottom of the trench shall be level and clean and the bottom and sides free from rocks or stones liable to cause damage to the cable.

The Contractor must take all necessary precautions to prevent the trenching work being in any way a hazard to the personnel and public and to safeguard all structures, roads, sewage works or other property on the site from any risk of subsidence and damage.

In the trenches the cables shall be laid on a 75mm thick bed of earth and be covered with a 150-mm layer of earth before the trench is filled in.

All joints in underground cables and terminations shall be made either by means of compound filled boxes according to the best established practice by competent cable jointers using first class materials or by means of approved epoxy-resin pressure type jointing kits such as "Scotchcast". Epoxy-resin joints must

be made entirely in accordance with the manufacturer's instructions and with materials stipulated in such instructions. Low tension PVCA cables are to be made off with sealing glands and materials designed for this purpose which must be of an approved make. Where cables are cut and not immediately made off, the ends are to be sealed without delay.

The laying of cables shall not be commenced until the trenches have been inspected and approved. The cable shall be removed from the drum in such a way that no twisting, tension or mechanical damage is caused and must be adequately supported at intervals during the whole operation. Particular care must be exercised where it is necessary to draw cables through pipes and ducts to avoid abrasion, elongation or distortion of any kind. The ends of such pipes and ducts shall be sealed to approval after drawing in of the cables.

Backfilling (after bedding) of the trenches is to be carried out with a proper grading of the material to ensure settling without voids, and the material is to be tamped down after the addition of every 150mm. The surface is to be made good as required.

On each completed section of the laid and jointed cable, the insulation resistance shall be tested to approval with an approved "Megger" type instrument of not less than 500 V for low tension cables.

Earth continuity conductors are to be run with all underground cables constituting part of a low tension distribution system. Such continuity conductors are to be stranded bare copper of a cross-sectional area equal to at least half that of one live conductor of the cable, but shall not be less than 4mm<sup>2</sup> or more than 70mm<sup>2</sup>. A single earth wire may be used as earth continuity conductor for two or more cables run together, branch earth wires being brazed on where required.

## 16.1 LAYING, JOINTING AND MAKING OFF OF ELECTRICAL CABLES

**[The requirements specified hereafter are aimed essentially at high tension cable but are also valid for low tension cable where applicable.]**

1. The use of the term "Inspector", includes the engineer or inspector of the Department or an empowered person of the concerned supervising consulting engineer's firm.
2. No cable is to be laid before the cable trench is approved and the soil qualification of the excavation is agreed upon by the Contractor and inspector.
3. After the cable has been laid and before the cable trench is back-filled the inspector must ensure that the cable is properly bedded and that there is no undesirable material included in the bedding layer.
4. All cable jointing and the making off of the cables must only be carried out by qualified experienced cable jointers. Helpers of the jointers may not saw, strip, cut, solder, etc. The cable and other work undertaken by them must be carried out under the strict and constant supervision of the joiner.
5. Before the Contractor allows the joiner to commence with the jointing work or making off of the cable (making off is recognized as half a joint) he must take care and ensure:
  - 5.1 that he has adequate and suitable material available to complete the joint properly and efficiently. Special attention must be given to ensure the cable furrules and cable lugs are of tinned copper and of sufficient size. The length of the jointing lugs must be at least six times the diameter of the conductor,
  - 5.2 that the joint pit is dry and that all loose stones and material are removed,
  - 5.3 that the walls and banks of the joint pit are reasonable firm and free from loose material which can fall into the pit,
  - 5.4 that the necessary coffer-dams or retaining walls are made to stop the flow of water into the joint pit,

5.5 that the joint pit is provided with suitable groundsheets so that the jointing work is carried out in clean conditions,

5.6 that the necessary tents or sails are installed over the joint pit to effectively avert unexpected rainfall and that sufficient light or lighting is provided,

5.7 that the necessary means are available to efficiently seal the jointing or cable end when an unexpected storm or cloudburst occurs, regardless of how far the work has progressed,

5.8 that the cables and other materials are dry, undamaged and in all respects are suitable for the joint work or making off,

5.9 that the heating of cable oil, cable compound, plumbers metal and solder is arranged that they are at the correct temperature when required so that the cable is not unnecessarily exposed to the atmosphere and consequently the ingress of moisture (care must be taken of overheating)

Flow temperatures of cable oil and compound must be determined with suitable thermometers. Cable oil and compound must not be heated to exceed the temperatures given on the containers and precaution must be taken to ensure that the tin is not overheated in one position. The whole mass must be evenly and proportionally heated.

(Temperatures of solder and plumbers metal may be tested with brown paper (testing time: 3 seconds). The paper must colour slightly - not black or burnt).

6. Before the paper-insulated cables are joined, they must be tested for the presence of moisture by the cable jointers test. This consists of the insertion of a piece of unhandled insulated impregnated paper tape in warm cable oil heated to a temperature of  $130 \pm 5^\circ\text{C}$ .

Froth on the surface of the oil is an indication that moisture is present in the insulation and the amount of the froth gives an indication of the moisture present.

7. If the cable contains moisture or is found to be otherwise unsuitable for jointing or making of the inspector is to be notified immediately and he will issue the necessary instruction to cope with the situation.

8. The joint or making off of paper insulated cables must not be commenced during rainy weather.

9. Once a joint is in progress the jointer must proceed with the joint until it is complete and before he leaves the site.

10. The jointer must ensure that the material and his tools are dry at all times, reasonably clean and absolutely free from soil.

11. Relating to the jointing of the cable the following requirements apply:

11.1 All jointing must be carried out in accordance with recognized and tried techniques and comply strictly with the instructions given by the supplier of the jointing kit.

11.2 The cables must be twisted by hand so that the cores can be joined according to the core numbers. If necessary the cable is to be exposed for a short distance to accomplish this. Under no circumstances may the cores in a joint be crossed so as to enable cores to be joined according to the core numbers. If it is not possible to twist the cables so that the preceding requirements can be met, then cores are to be joined in the normal way without any consideration of the core numbers.

11.3 Normally the cables will have profile conductors. The conductors shall be pinched with gas pliers to form a circular section, bound with binding wire so that they do not spread, and then tinned before jointing.

11.4 Jointing ferrules, the length of which are at least 6 times the diameter of the conductors, must be slid over the conductor ends to be joined and pinched tightly. Then they are soldered by means

of the ladle process whilst being pinched further closed.

Use resin only as a flux. The slot opening in the ferrule must be completely filled, including all depressions.

Remove all superfluous metal with a cloth dipped in tallow. Work during the soldering process must be from top to bottom. Rub the ferrule smooth and clean with aluminium oxide tape after it has cooled down to ensure that there are not any sharp points or edges.

**NB:** The spaces between the conductor strands must be completely filled by soldering process and must be carried out quick enough to prevent the paper insulation from burning or drying out unnecessarily.

11.5 After the ferrules have been rubbed smooth and clean, they and the exposed cores must be treated with hot cable oil (110°C) to remove all dust and moisture. These parts are to be thoroughly basted with the oil.

11.6 The joiner must take care that his hands are dry and clean before the joint is insulated. Also the insulating tape which is to be used must first be immersed in warm cable oil (110°C) for a sufficient period to ensure that no moisture is present.

11.7 After the individual cores have been installed they must be well basted with hot cable oil and again after the applicable separator and/or belt insulation tape is applied before the lead joint sleeve is placed in position.

11.8 The lead joint sleeve must be thoroughly cleaned and prepared before it is placed on the cable and must be kept clean during the whole jointing process. Seal the filling apertures of the sleeve with tape until the sleeve is ready for compound filling.

11.9 The plumbing joints employed to solder the joint sleeve to the cable sheath, must be cooled off with tallow and the joint sleeve is to be filled with compound while it is still warm. Top up continuously until the joint is completely filled to compensate for the compound shrinkage.

11.10 The outer joint box must be clean and free from corrosion. After it has been placed in position it must be slightly heated before being filled with compound. Top up until completely full.

12. As far as cable end boxes are concerned the requirements as set out above are valid where applicable.

## 17. DISTRIBUTION BOARDS

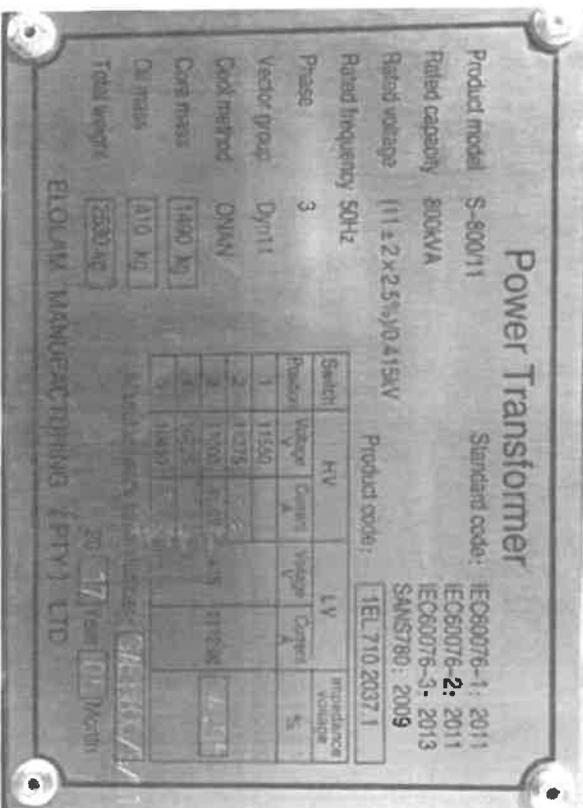
In addition to clause 14 and clause 15 of Part 1 of this specification the following shall also be applicable to switchboards required for this service.

The Contractor shall supply and install the distribution boards as indicated on the drawings and listed in the distribution Board Schedule. All distribution boards shall comply with the quality specification in Part 3 of this specification, and be approved by the Department's representative.

18. SUBSTATION

## 18.1 GENERAL SUB-STATION WORK

### Existing installed Transformer Nameplate



The electrical contractor to inspect and test and recommission the existing installed transformer

## 18.2 SUB-STATION EARTHING

The electrical contractor to inspect and test and recommission the existing installed transformer.

### 18.3 CONTRACTOR'S RESPONSIBILITY

The electrical contractor to inspect and test and recommission the existing installed transformer.

**19. SCHEDULE OF LIGHT FITTINGS (SERVICE)**

The Departmental Quality Specification for the relevant luminaires must be included in Part 3 of the specification.

shall be approved by the Department and to be service.

**Type D:** SURFACE MOUNTED FITTING 2x58W FLUORESCENT LUMINAIRE COMPLETE WITH ELECTRONIC BALLAST & COLOUR 21 LAMPS. FITTING TO BARE SABS MARK OR SABS MARK OF COMPLIANCE.

Type E SURFACE MOUNTED PRISON VANDAL PROOF FITTING TO OPERATE 2x58W

**Type E:**  
SURFACE MOUNTED PRISON VANDAL PROOF FITTING TO OPERATE 2x58W FLUORESCENT AND 1 x 9W CFL NIGHT LIGHT LAMPS. THE LUMINAIRE MUST HAVE STRAIGHT SIDES AND MUST BE 1605mm x 222mm x 95mm(Deep) COMPLETE WITH ELECTRONIC CONTROL GEAR & COLOUR 21 LAMPS AND PAINTED IN WHITE. THE FITTING MUST HAVE ROUND VANDAL RESISTANT SCREWS AND BE SUPPLIED COMPLETE WITH SPECIAL TOOL FOR OPENING. THE LUMINAIRE MUST HAVE A 4mm IMPACT RESISTANT LENS FITTING TO BARE SABS MARK OR SABS MARK OF COMPLIANCE.

Type E1: SURFACE MOUNTED PRISON VANDAL PROOF FITTING TO OPERATE 2x1W CFL

SURFACE MOUNTED PRISON VANDAL PROOF FITTING TO OPERATE 2x1W CFL AND 1 x 9W CFL NIGHT LIGHT LAMPS. THE LUMINAIRE MUST HAVE STRAIGHT SIDES AND MUST BE 365mm x 222mm x 95mm(Deep) COMPLETE WITH

ELECTRONIC CONTROL GEAR AND PAINTED IN WHITE. THE FITTING MUST HAVE ROUND VANDAL RESISTANT SCREWS AND BE SUPPLIED COMPLETE WITH SPECIAL TOOL FOR OPENING. THE LUMINAIRE MUST HAVE A 4mm IMPACT RESISTANT LENS FITTING TO BARE SABS MARK OR SABS MARK OF COMPLIANCE.

Type F:

SURFACE/CEILING MOUNTED BULKHEAD LUMINAIRE WITH AN IP RATING OF 65. THE LUMINAIRE CONSISTS OF A HIGH PRESSURE DIE CAST ALLUMINIUM BASE AND TRIM RING AND AN OPAL HIGH IMPACT ACRYLIC DIFFUSER. LUMINAIRE MUST BEAR THE SABS MARK OF APPROVAL. THE LUMINAIRE MUST BE 280mm in DIAMETER AND MUST OPERATE WITH 2x18W CFL LAMPS. THE TRIM RING MUST BE FIXED BY 4x5M ALLAN HEAD SCREWS TO THE BASE. THE LUMINAIRE MUST BE COMPLETE WITH CONTROL GEAR AND LAMPS.

Type G:

SURFACE MOUNTED FITTING WITH IP RATING 65 2x58W FLUORESCENT LUMINAIRE COMPLETE WITH ELECTRONIC BALLAST & COLOUR 21 LAMPS. FITTING TO BARE SABS MARK OR SABS MARK OF COMPLIANCE.

Type H:

SURFACE MOUNTED HIGH INTENSITY DISCHARGE BULKHEAD LUMINAIRE WITH AN IP RATING OF 66. THE LUMINAIRE CONSISTS OF A HIGH PRESSURE DIE CAST ALLUMINIUM BASE AND NON DISCOLOURING PRISMATIC HIGH IMPACT ACRYLIC DIFFUSER. LUMINAIRE MUST BEAR THE SABS MARK OF APPROVAL. THE LUMINAIRE MUST BE 440mm x 320mm x 217mm IN SIZE AND MUST OPERATE WITH 1 x 70 W HPS LAMP. THE FRAME ASSEMBLY IS HELD TO THE BODY BY STAINLESS STEEL CAPTIVE 6M ALLAN HEAD SCREWS. THE LUMINAIRE MUST BE COMPLETE WITH CONTROL GEAR AND LAMPS. THE LUMINAIRE MUST HAVE A DECORATIVE SKIRT ASSEMBLY AND BE PAINTED AS PER ENGINEER AND ARCHITECT COLOUR.

Type J:

CEILING MOUNTED RECESSED 1.2 x 0.6 METRE 4 x 36 WATT LOW BRIGHTNESS FLUORESCENT FITTING, BODY MADE OF COLD ROLLED MILD STEEL WITH WHITE EPOXY POWDER COATED FINISH. THE LUMINAIRE HAS AN IP RATING OF 20. THE LUMINAIRE MUST OPERATE 4 x 36 WATT COOL WHITE COLOUR 840(21) FLUORESCENT TUBES. TELESCOPIC HOLDERS AND ELECTRONICS BALAST. THE LUMINAIRE MUST BARE THE SABS MARK OF APPROVAL.

Type J1:

CEILING MOUNTED RECESSED 0.6 x 0.6 METRE 4 x 18 WATT LOW BRIGHTNESS FLUORESCENT FITTING, BODY MADE OF COLD ROLLED MILD STEEL WITH WHITE EPOXY POWDER COATED FINISH. THE LUMINAIRE HAS AN IP RATING OF 20. THE LUMINAIRE MUST OPERATE 4 x 18 WATT COOL WHITE COLOUR 840(21) FLUORESCENT TUBES. TELESCOPIC HOLDERS AND ELECTRONICS BALAST. THE LUMINAIRE MUST BARE THE SABS MARK OF APPROVAL.

Type O:

RED SAFE LIGHT WITH DIMENSIONS:82 x 66 x 95 mm(HxWxD) WITH MAX 15W LAMP

Type EXIT:

SURFACE MOUNTED SINGLE SIDED EMERGENCY SIGNAGE LUMINAIRE WITH ABS HOUSING 650 deg C AS PER IEC SPECIFICATIONS. POLYCARBONATE DIFFUSER AND ABS REFLECTOR. HIGH TEMPERATURE HERMITICALLY SEALED NiCd BATTERY WITH DEEP DISCHARGE AND INVERSE POLARITY AND OVERLOAD PROTECTION. MUST BE NON MAINTAINED.HAS AN EMERGENCY DURATION OF ONE HOUR AND EMERGENCY LUMEN OUTPUT OF 123 LM. HAS A SELF EXTINGUISHING PCB AND OPERATE AN 8 WATT FLUORESCENT LAMP. FITTING IS COLOUR WHITE AND THE SIGNAGE IS AS FOLLOWS; SIGN MUST READ "EXIT"

20. SCHEDULE OF POWER POINTS

BOARD	POWER POINT	TYPE	SIZE OF CABLES, CONDUIT AND WIRING	LOAD WATTS
DB-A	K26/K27/K28	Meat Saw	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	4500
DB-A	K29/K30	Meat Mincer	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	11000
DB-A	K31	Planetary Mixer	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	2200
DB-B	K24/K25	Veg Prep	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	3000
DB-M	K9	Pot	25mm <sup>2</sup> 4-core PVCA cable with 16mm <sup>2</sup> earth wire	50k
DB-M	K1	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k
DB-M	K2	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k
DB-M	K3	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k
DB-M	K4	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k
DB-M	K12	Pan	4mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	9000
DB-M	K13	Pan	4mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	9000
DB-M	K14	Pan	4mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	9000
DB-M	K15	Steamer	25mm <sup>2</sup> 4-core PVCA cable with 16mm <sup>2</sup> earth wire	66k
DB-M	K16	Steamer	25mm <sup>2</sup> 4-core PVCA cable with 16mm <sup>2</sup> earth wire	66k
DB-M	K18	Oven	4mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	18k
DB-M	M2	Fan	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	2200
DB-M	M3	Fan	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	2200
DB-M	M4	Fan	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	2200
DB-M	M5	Fan	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	2200
DB-M	M10	Heat Exchanger	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	1100
DB-M	M11	Heat Pump	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	12k
DB-M	M12	Heat Pump	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth wire	12k
DB-M	M13	Element	25mm <sup>2</sup> 4-core PVCA cable with 16mm <sup>2</sup> earth wire	60k
DB-ME	K10	Pot	25mm <sup>2</sup> 4-core PVCA cable with 16mm <sup>2</sup> earth wire	50k
DB-ME	K5	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k
DB-ME	K6	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k
DB-ME	K7	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k
DB-ME	K8	Kettle	16mm <sup>2</sup> 4-core PVCA cable with 10mm <sup>2</sup> earth wire	24k

DB-ME	K11	Pan	4mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth	9000
DB-ME	K17	Steamer	25mm <sup>2</sup> 4-core PVCA cable with 16mm <sup>2</sup> earth	66k
DB-ME	M8	Cold Room L	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth	7000
DB-ME	M9	Cold Room S	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth	4000
DB-ME	M6	Freezer	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth	8000
DB-ME	M7	Freezer	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth	8000
DB-ME	M1	Booster Pump	2.5mm <sup>2</sup> 4-core PVCA cable with 2.5mm <sup>2</sup> earth	550

## 21. SCHEDULE OF CABLES, CONDUIT AND WIRING (SERVICE)

Supply, install and connect the following cable, conduit and wiring: (for power point cables see previous section)

FROM	TO	SIZE AND TYPE	LOAD (kVA)
Transformer	Main LV	12x240mm <sup>2</sup> 1-core PVC cable	800
Main LV	DB-M	12x150mm <sup>2</sup> 1-core PVC cable plus bare earth	510
Main LV	Generator	12x150mm <sup>2</sup> 1-core PVC cable plus bare earth	750
Generator	Main LV(E)	12x150mm <sup>2</sup> 1-core PVC cable plus bare earth	750
Main LV(E)	DB-M(E)	12x150mm <sup>2</sup> 1-core PVC cable plus bare earth	500
DB-M	DB-A	10mm <sup>2</sup> 4-core PVCA cable and 6mm <sup>2</sup> earth wire	30
DB-M	DB-B	10mm <sup>2</sup> 4-core PVCA cable and 6mm <sup>2</sup> earth wire	20
DB-ME	DB-BE	6mm <sup>2</sup> 3-core PVCA cable and 4mm <sup>2</sup> earth wire	10
DB-M	DB PLANT	25mm <sup>2</sup> 4-core PVCA cable and 25mm <sup>2</sup> earth wire	72

## 22. SCHEDULE OF DISTRIBUTION BOARDS (SERVICE)

The front panels of normal supply, standby power and no-break supply sections shall be painted in distinctive colours as follows:

Normal supply : Light Orange, colour B26 of SABS 1091.  
 Standby power : Signal Red, colour A11 of SABS 1091.  
 No-break supply: Dark Violet, colour F06 or Olive Green, Colour H05 of SABS 1091.

Indicated is the probable fault level rating (kA) of the busbars. Refer to the Summary of Switchgear and Circuits for the minimum fault level rating of specified equipment.

BOARD	TYPE	PANEL	FAULT LEVEL	LOAD kVA
MAIN LV	Floor standing, without door	Normal power	36kA	800
MAIN LV (E)	Floor standing, without door	Standby power	36kA	750
DB-M	Floor standing, with door	Normal power	15kA	510
DB-M (E)	Floor standing, with door	Standby power	15kA	400
DB-A	Flush in wall	Normal power	5kA	30
DB-B	Flush in wall	Normal power	5kA	20
DB-B (E)	Flush in wall	Standby power	5kA	10
DB Plant	Surface mounted with door	Normal power	15kA	72
	IP66			

### 23.

### SUMMARY OF SWITCHGEAR AND CIRCUITS

The indicated fault current rating (kA) is the minimum value that the switchgear must comply with for connecting to the bus bars of the respective panels-distribution boards.

#### MAIN DISTRIBUTION BOARD : DB MAIN-LV (SERVICE)

##### PANEL - 1 : NORMAL POWER

Main switch	600-1250A 4 pole 85kA circuit breaker.
Distribution board – Medium B Kitchen	800A three pole 36kA circuit breaker.
Generator	800A three pole 36kA circuit breaker.

##### PANEL-2 : STANDBY POWER

Main switch	800A three pole 36kA circuit breaker.
Distribution board – DB-A	500A three pole 36kA circuit breaker.
Distribution board – DB-B	30A three pole 15kA circuit breaker.

##### KITCHEN DISTRIBUTION BOARD : DB M (SERVICE)

Main switch	800A 4 pole 36kA circuit breaker.
Distribution board – DB-A	50A three pole 15kA circuit breaker.
Distribution board – DB-B	30A three pole 15kA circuit breaker.
K9	80A three pole 15kA circuit breaker.
K1	60A three pole 15kA circuit breaker.
K2	60A three pole 15kA circuit breaker.
K3	60A three pole 15kA circuit breaker.
K4	60A three pole 15kA circuit breaker.
K12	30A three pole 15kA circuit breaker.
K13	30A three pole 15kA circuit breaker.
K14	30A three pole 15kA circuit breaker.
K15	100A three pole 15kA circuit breaker.
K16	100A three pole 15kA circuit breaker.
K18	30A three pole 15kA circuit breaker.
M2	5A three pole 15kA circuit breaker.
M3	5A three pole 15kA circuit breaker.
M4	5A three pole 15kA circuit breaker.
M5	5A three pole 15kA circuit breaker.
M10	5A three pole 15kA circuit breaker.
M11	25A three pole 15kA circuit breaker.
M12	25A three pole 15kA circuit breaker.
M13	100A three pole 15kA circuit breaker.

##### PANEL - 2 : STANDBY POWER

Main switch	500A 4 pole 36kA circuit breaker.
Distribution board – DB-BE	30A one pole 15kA circuit breaker.
K10	80A three pole 15kA circuit breaker.
K5	60A three pole 15kA circuit breaker.
K6	60A three pole 15kA circuit breaker.
K7	60A three pole 15kA circuit breaker.
K8	60A three pole 15kA circuit breaker.
K11	30A three pole 15kA circuit breaker.
K17	100A three pole 15kA circuit breaker.
M8	15A three pole 15kA circuit breaker.
M9	20A one pole 15kA circuit breaker.

M6 15A three pole 15kA circuit breaker.  
M7 15A three pole 15kA circuit breaker.  
M1 15A one pole 15kA circuit breaker.

**KITCHEN DISTRIBUTION BOARD : DB A (SERVICE)**

**PANEL - 1 : NORMAL POWER**

Main switch : 50A 4 pole 5kA circuit breaker.  
K26/27/28 : 10A 3 pole 5kA circuit breaker.  
K29/30 : 20A 3 pole 5kA circuit breaker.  
K31 : 10A 3 pole 5kA circuit breaker.

Lighting circuits 1-3 3 x 10A one pole 5kA circuit breakers.

Socket outlets P1-6: 2 x 63A two pole 30mA single-phase earth leakage relays, and 6 x 20A single pole 5kA circuit breakers.

**KITCHEN DISTRIBUTION BOARD : DB B (SERVICE)**

**PANEL - 1 : NORMAL POWER**

Main switch : 30A 4 pole 5kA circuit breaker.  
K24/25 : 10A 3 pole 5kA circuit breaker.

Lighting circuits 1-5 5 x 10A one pole 5kA circuit breakers.

Socket outlets P1-6: 2 x 63A two pole 30mA single-phase earth leakage relays, and 6 x 20A single pole 5kA circuit breakers.

**PANEL - 2 : STANDBY POWER**

Main switch : 30A 2 pole 5kA circuit breaker.

Lighting circuits 1-3 3 x 10A one pole 5kA circuit breakers.

Socket outlets P1-3: 1 x 63A two pole 30mA single-phase earth leakage relays, and 3 x 20A single pole 5kA circuit breakers.

**PLANT DISTRIBUTION BOARD : DB PLANT (REPLACE)**

**PANEL - 1 : NORMAL POWER**

Main switch : 200A 4 pole 15kA circuit breaker.  
Mechanical 1-6 : 6 x 60A three pole 5kA circuit breaker Curve 1  
Mechanical 7-8 : 6 x 60A three pole contractor  
: 2 x 40A three pole 5kA circuit breaker Curve 1  
: 2 x 40A three pole contractor

**PART 3: QUALITY SPECIFICATION FOR MATERIALS AND EQUIPMENT OF ELECTRICAL  
INSTALLATIONS**

Section A : Preamble to Standard Specification	: Appendix 1
Section B : Installation Specification	: Appendix 1
Section C : Quality Specification	: Appendix 2

**= END OF SPECIFICATION =**

## PART 4: BILLS OF QUANTITIES (APPENDIX 4)

### PREAMBLE

#### TYPICAL ITEMS/PREAMBLES TO BE INSERTED IN THE BILLS OF QUANTITIES

1. The conditions of contract and the application of the Contract Price Adjustment Provisions (if applicable) shall be as set out in Part A: Section 1: Preliminaries.
2. The descriptions in these bills of quantities shall be read in conjunction with the specification.
3. The unit rate for each item in the Bills of Quantities shall include for all materials, labour, profit, transport, etc., everything necessary for the execution and complete installation of the work in accordance with the description.
4. The Bills of Quantities shall not be used for ordering purposes. The Contractor shall check the lengths of cables and overhead conductors on site before ordering any of the cables. Any allowance for off-cuts shall be made in the unit rates.
5. The rates shall exclude Value-Added Tax and the total carried over to the final summary in PART A.
6. All material covered by this Specification shall, wherever possible, be of South African manufacture.

#### SUMMARY OF BILLS OF QUANTITIES

BILL NO	DESCRIPTION	PAGE NO	R	AMOUNT
			c	
Bill No. 1	: Electrical Installation			
Bill No 2	: Generator Installation			

R	

**TOTAL PRICE CARRIED TO PART A (EXCLUDING VAT).**

## PART 5: ELECTRICAL WORK MATERIAL SCHEDULE

The Contractor shall complete the following schedules and submit them to the Representative/Agent within 21 days of the date of the acceptance of the tender.

The schedules will be scrutinised by the Representative/Agent and should any material offered not comply with the requirements contained in the specification, the Contractor will be required to supply material in accordance with the contract at no additional cost.

**NB:**

**Only one manufacturer's name to be inserted for each item.**

Item	Material	Make or trade name	Country of origin
1.	Distribution boards		
2.	Circuit breakers 1P, 2P, 3P		
3.	On load isolators without trips		
4.	Contactors 1P, 2P, 3P		
5.	Earth leakage relays 1 & 3 phase		
6.	H.R.C. fuse switches		
7.	Kilowatt hour meter		
8.	Current transformers		
9.	Voltmeter		
10.	Maximum demand ammeter		
11.	Daylight sensitive switch		
12.	Time switch		
13.	Conduit		
14.	Conduit boxes		
15.	Power skirting		
16.	Surface switches		
17.	Watertight switches		
18.	16A flush socket outlets		
19.	16A surface socket outlets		
20.	16A watertight socket outlets		
21.	Fluorescent luminaires		
22.	Type A		
	Type B		
	Type C		
	Type D		
	Etc.		
23.	Bulkhead fittings: Type F		
24.	Spherical fittings: Type G		
25.	4 plate stove		
26.	Convection heater		
27.	Fan heater		
28.	Fans		
29.	Clocks		
30.	PVCA cable		
31.	Cable trays		

## SCHEDULE OF IMPORTED MATERIALS AND EQUIPMENT TO BE COMPLETED BY TENDERER

Item	Material/Equipment	Rand (R) (Excluding VAT)
1		
2		
3		
4		
5		
6		

The Contractor shall list imported items, materials and/or equipment, which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only. Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Representative/Agent of the Department within 60 (sixty) days from the date of acceptance of the tenders. No adjustment of the local VAT amount, nor the contractor's profit, discount, markup, handling costs, etc shall be allowed.

These net amounts will be adjusted as follows

### FORMULA:

The net amount to be added to or deducted from the contract sum:

$$A = V \left[ \frac{Z}{Y} - 1 \right]$$

A = the amount (R) of adjustment

V = the net amount (supplier's quotation) (R) of the imported item

Y = exchange rate at the closing date of tender submission

Z = exchange rate on the date of payment.

**PARTICULARS OF ELECTRICAL CONTRACTOR**

The electrical contractor to complete the info below and attach the certified documentation (ECB & ECA & DOL) to the electrical tender document. If the info is not complete and certified documentation not attach to the electrical tender, the tenderer to be disqualified and marked as non-responsive to the tender.

TENDER NO: \_\_\_\_\_

REFERENCE: \_\_\_\_\_

SERVICE: \_\_\_\_\_

NAME OF THE ELECTRICAL CONTRACTOR THREE PHASE REGISTER: \_\_\_\_\_

ADDRESS \_\_\_\_\_

CONTACT NUMBER: \_\_\_\_\_

ELECTRICAL CONTRACTOR'S REGISTRATION NUMBER AT THE ELECTRICAL CONTRACTING BOARD OF SOUTH AFRICA. \_\_\_\_\_

ECB NUMBER: \_\_\_\_\_

ELECTRICAL CONTRACTOR'S REGISTRATION NUMBER AT THE ELECTRICAL CONTRACTORS ASSOCIATION OF SOUTH AFRICA \_\_\_\_\_

ECA NUMBER: \_\_\_\_\_

ELECTRICAL CONTRACTOR'S REGISTRATION NUMBER AT THE DEPARTMENT OF LABOUR: \_\_\_\_\_

DOL NUMBER: \_\_\_\_\_

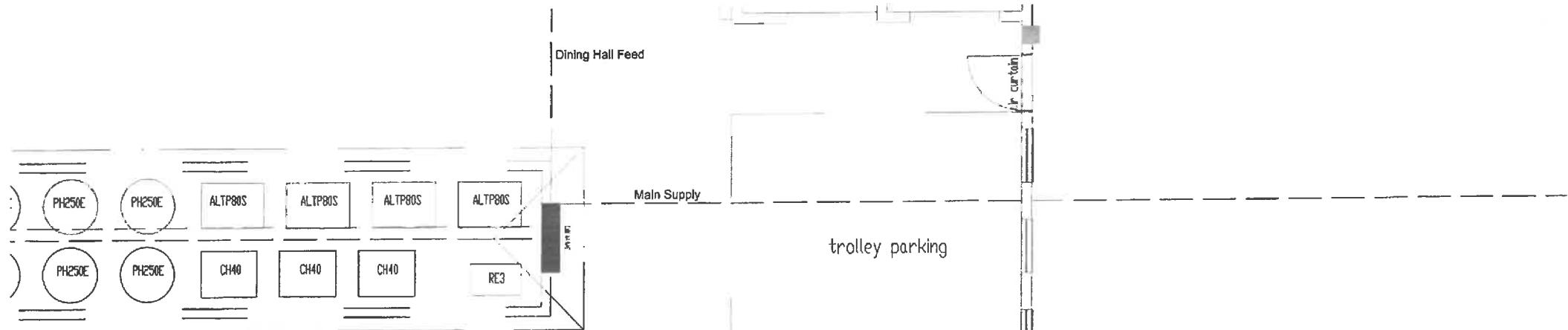
THE QUALIFIED THREE PHASE ELECTRICIAN IS REQUIRED TO SUBMIT THE FOLLOWING COMPREHENSIVE INFO:

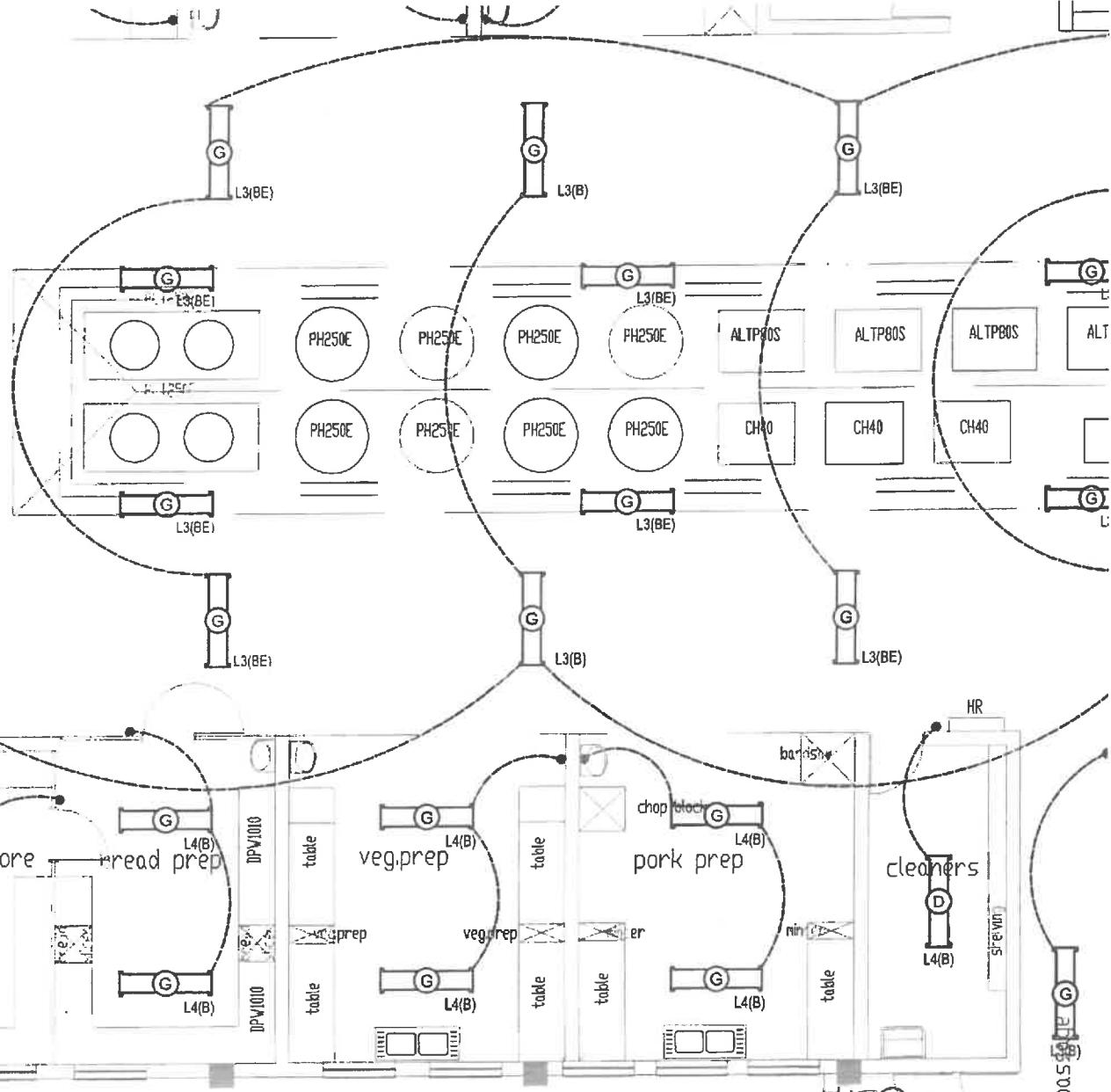
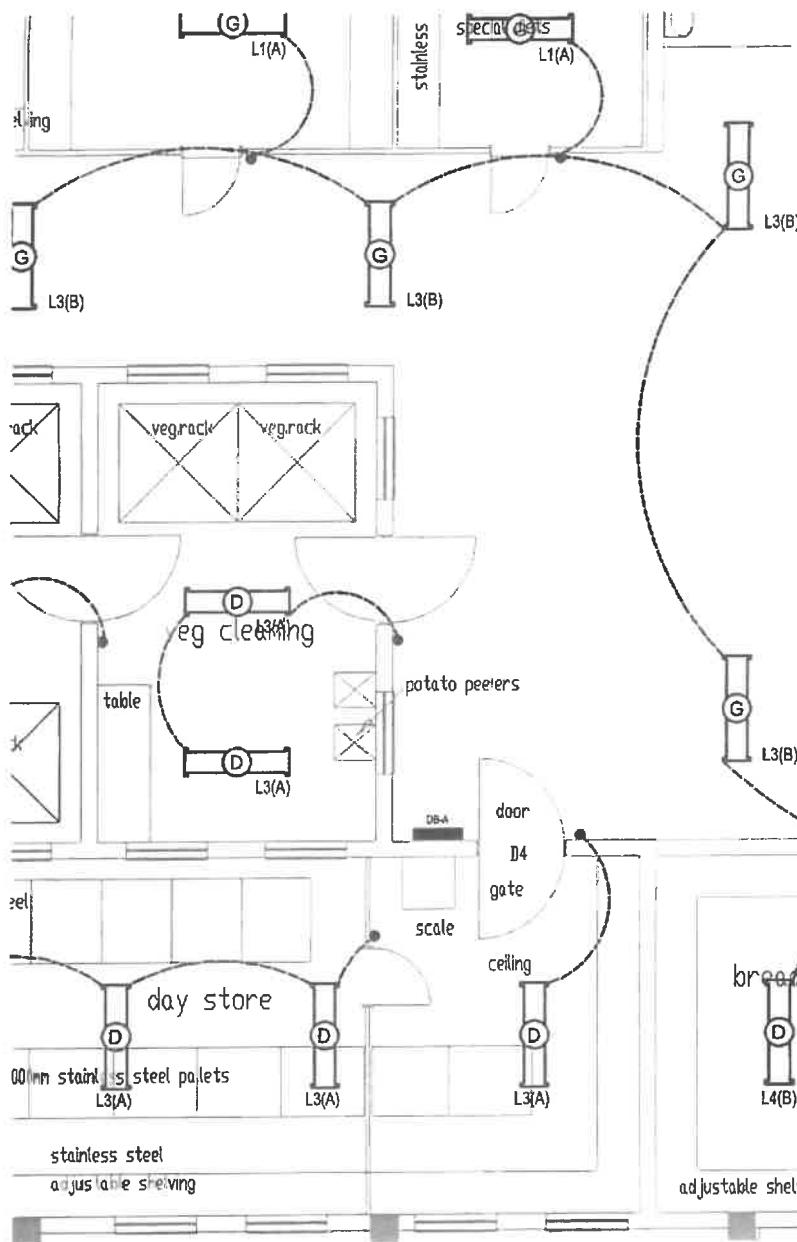
- Original tax clearance certificate
- VAT registration certificate
- Workmen's Compensation registration certificate (or proof of payment of contribution in terms of the COID Act no. 130 of 1993)
- Company / cc / Trust / Partnership registration certificate
- Certified copy of identity document staff on the project
- Certified academic and certified electrical certificate of the staff on the project.

DATE \_\_\_\_\_

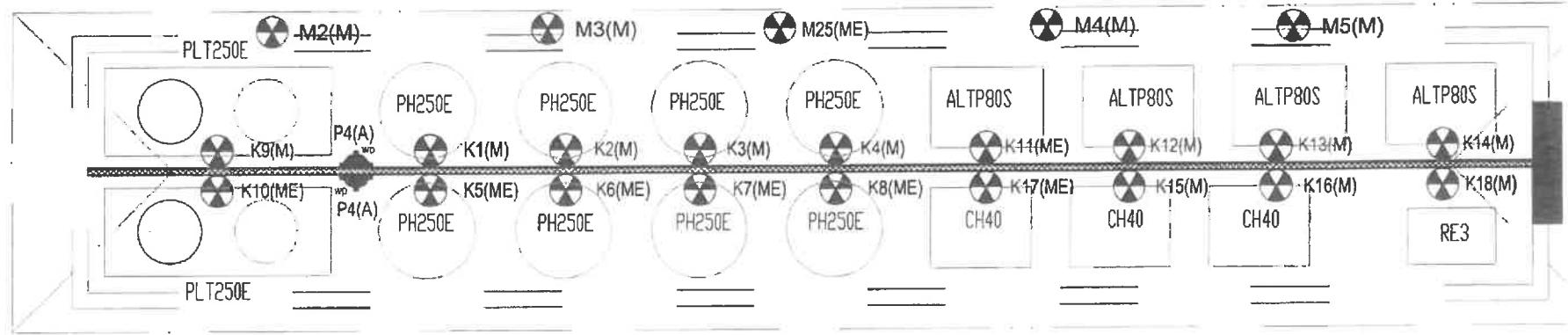
SIGNATURE OF TENDERER \_\_\_\_\_







security fence

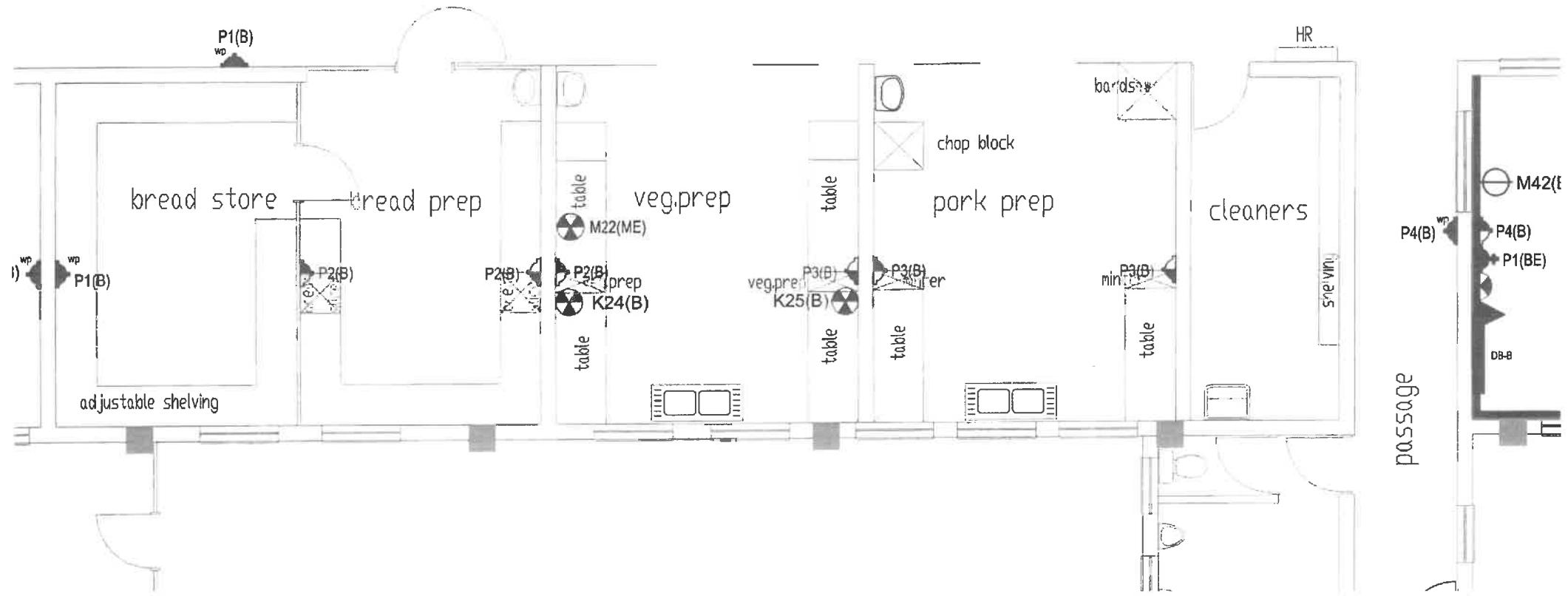


○ M39(M)

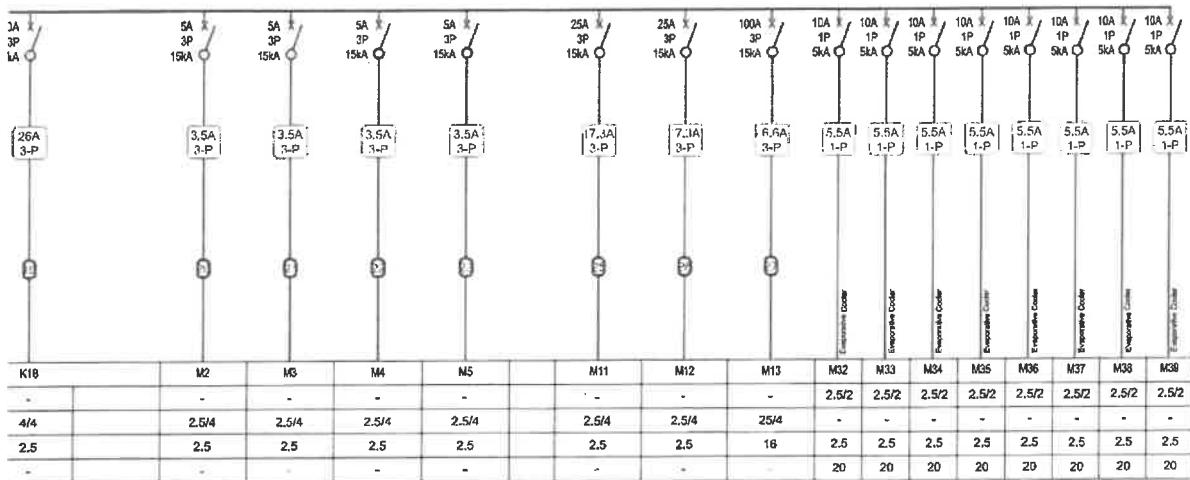
○ M38(M)

○ M37(M)

○ M36(M)

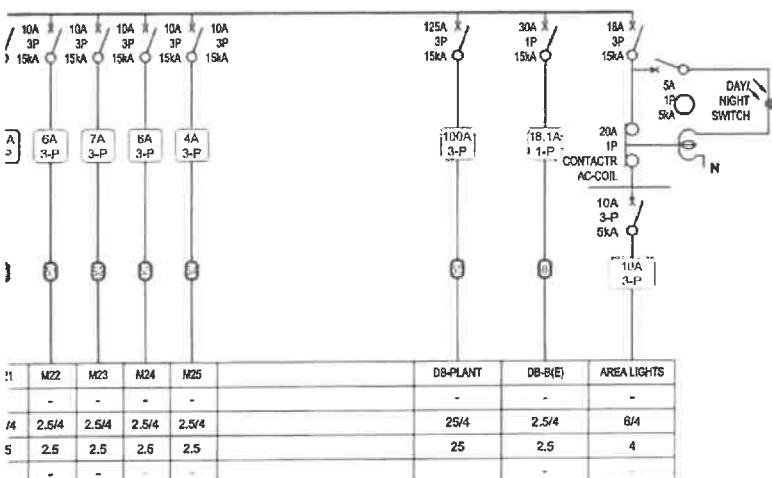


LE SIZE/CORES(mm <sup>2</sup> /no)	-	-	-	-	-	2.5/4	2.5/4	2.5/4	-	-	-	-	-	-
EARTH WIRE SIZE(mm <sup>2</sup> )	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
CONDUIT SIZE(mm <sup>2</sup> )	25	25	20	20	20	50	50	50	20	20	20	20	20	20



## EXTRACTION

## HEATING



#### EMERGENCY EQUIPMENT LIST

#### EMERGENCY EQUIPMENT LIST

● K22	0.5kW 30kg Scale	B
● K23	0.5kW 30kg Scale	B
● K24	1.5kW Veg Prep Machine	B
● K25	1.5kW Veg Prep Machine	B
● K26	1.5kW Meat Saw	A
● K27	1.5kW Meat Saw	A
● K28	1.5kW Meat Saw	A
● K29	5.5kW Meat Mincer	A
● K30	5.5kW Meat Mincer	A
● K31	2.2kW Planetary Mixer	A
● M2	2.2kW Extraction Fan	M
● M3	2.2kW Extraction Fan	M
● M4	2.2kW Extraction Fan	M
● M5	2.2kW Extraction Fan	M
● M11	4.3kW HEAT PUMP	M
● M12	4.3kW HEAT PUMP	M
● M13	24kW BOILER	M
● M32	1.23kW EVAPORATIVE COOLER	M
● M33	1.23kW EVAPORATIVE COOLER	M
● M34	1.23kW EVAPORATIVE COOLER	M