



public works  
& infrastructure

Department:  
Public Works and Infrastructure  
**REPUBLIC OF SOUTH AFRICA**

*[Signature]*  
2024/08/26

**BOOK 1 OF 2**

**KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY:  
36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS,  
CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS  
(APPOINTMENT OF CONTRACTOR)**

TENDER NUMBER: H24/025AI

REFERENCE NUMBER: H24/025AI

**TENDER DOCUMENT**

**AUGUST 2024**

**ISSUED BY:**

**THE DIRECTOR-GENERAL**

**Department of Public Works and Infrastructure**

**Central Government Offices**

**C/o Bosman & Madiba streets**

**Pretoria**

**0001**

**Name of tenderer:.....**

**RETURNABLE DOCUMENT**

**KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)**

**TABLE OF CONTENTS**

**BOOK 1 OF 2  
THE TENDER**

***PART T1 TENDERING PROCEDURES***

T1.1	PA-04 (EC)	Notice and Invitation for Tender
T1.2	DPW-03 (EC)	Tender Data

***PART T2 RETURNABLE DOCUMENTS***

T2.1	PA-09 (EC)	List of returnable documents
T2.2	DPW-07 (EC)	Form of Offer and Acceptance
T2.3	PA-11	Bidder's Disclosure
T2.4	PA-15.1	Resolution of Board of Directors
T2.5	PA-15.2	Resolution of Board of Directors (Consortia/JV)
T2.6	PA-15.3	Special Resolution of Consortia or JV's
T2.7	PA-16	Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2022
T2.8		B-BBEE Exempted Affidavit for Exempted Micro Enterprises (Issued in terms of the amended construction sector code)
T2.9	PA-16.1 (EC)	Ownership Particulars
T2.10	PA-40	Declaration of Designated Groups
T2.11	ANNEXURE A	Bidders evidence of instrumentations, hand tools, machinery, cleaning equipment and utility vehicles owned or to be hired/rented in order to carry out the project
T2.12	DPW-09 (EC)	Particular of Tenderer's Projects
T2.13	DPW-15 (EC)	Schedule of Subcontractors
T2.14	DPW-16 (EC)	Site Inspection Meeting Certificate
T2.15	DPW-21 (EC)	Record of Addenda to Tender Documents
T2.16	DPW-22 (EC)	Particulars of Electrical Contractor
T2.17	DPW-23 (EC)	Schedule for Imported Materials & Equipment
T2.18		Declaration – EPWP Programme

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

**THE CONTRACT**

***PART C1      AGREEMENT AND CONTRACT DATA***

- |      |               |  |
|------|---------------|--|
| C1.1 | DPW-05 (EC)   | Contract Data - GCC 2015 3 <sup>rd</sup> Edition                   |
| C1.2 | DPW-10.2 (EC) | Variable Construction Guarantee - GCC 2015 3 <sup>rd</sup> Edition |
| C1.3 | DPW-10.4 (EC) | Fixed Construction Guarantee - GCC 2015 3 <sup>rd</sup> Edition    |

***PART C2      PRICING DATA***

- |      |         |                      |
|------|---------|----------------------|
| C2.1 | PG-02.1 | Pricing Instructions |
| C2.2 |         | Bill of Quantities   |

***PART C3      SCOPE OF WORK***

- |      |              |   |
|------|--------------|---|
| C3.1 | PG-01.1 (EC) | Scope of Works – (GCC 2015 3 <sup>rd</sup> Edition) |
|------|--------------|---|

***PART C4      SITE INFORMATION***

- |      |              |   |
|------|--------------|---|
| C4.1 | PG-03.1 (EC) | Site Information – (GCC 2015 3 <sup>rd</sup> Edition) |
| C4.2 |              | Locality Plan   |



KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **THE TENDER**



KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **PART T1: TENDERING PROCEDURES**

# PA-04 (EC): NOTICE AND INVITATION TO TENDER

THE DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE INVITES TENDERS FOR:

<b>Project title:</b>	KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT BRIDGE LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR )
-----------------------	--

<b>Tender no:</b>	H24/025AI	<b>Reference no:</b>	H24/025AI
<b>Advertising date:</b>	26 August 2024	<b>Closing date:</b>	23 September 2024
<b>Closing time:</b>	11:00am	<b>Validity period:</b>	84 Calendar days

## 1. REQUIRED CIDB GRADING

It is estimated that tenderers should have a CIDB contractor grading designation of **7 CE** or **7 GB\*** or higher.

*\* Delete "or select tender value range select class of construction works" where only one class of construction works is applicable*

It is estimated that potentially emerging enterprises should have a CIDB contractor grading designation of **Not applicable Not applicable PE** or **Not applicable Not applicable PE\*** or higher.

*\* Delete "or select tender value range select class of construction works PE" where only one class of construction works is applicable*

## 2. FUNCTIONALITY CRITERIA APPLICABLE YES ☒ NO ☐

**Note 1:** Failure to meet minimum functionality score will result in the tenderer being disqualified.

<b>Functionality criteria<sup>1</sup>:</b>	<b>Weighting factor:</b>
--	--------------------------

<sup>1</sup>The points allocated to each functionality criterion should not be generic but should be determined separately for each tender on a case by case basis.

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".

## 9.1 PROJECT WORK FORCE

The bidders are to provide proof of the proposed Work Force in the form of a project organogram that will be employed for the duration of this project.

The proposal to include the following required Personnel:

- (i) Construction Manager with a minimum qualification of a National Diploma or higher in Built Environment and with proof of registration as a professional with SACPCMP or ECSA.
- (ii) Site Agent with a minimum qualification of Diploma in Built Environment.
- (iii) 1 x Plumber (with a minimum NQF Level 1 or Higher or an Artisan Recognition of Prior Learning (ARPL)
- (iv) Process Controllers Class III (1) and Class II (1) or Higher (All required)
- (v) 1 x Electrician
- (vi) 1 x Air- Conditioner Technician
- (vii) Health and Safety Officer or Health and Safety Manager. Health and Safety Officer or Manager must be registered with SACPCMP as professionals.

NB: Bidder must submit a sworn affidavit that these or similar personnel will be employed after the award of the tender.

NB: If any of the above services are to be sub-contracted, the bidder must attach the CSD report of the subcontractor(s) and should indicate the details of the subcontractor(s) on the DPW 15 (EC) and DPW 22 (EC) forms and submit all necessary documents for key personnel as listed below.

35

Bidders are to provide the following (for all above-mentioned key personnel):

- CVs of each key personnel to be involved in this project
- Copies of qualifications for all key personnel to be involved in this project.
- Trade certificates for Electrician, Plumber, and Air - conditioner technicians.
- Copies of Certificates of Process Controllers Class III and Class II.

NB: All Certifications for key personnel should be valid or active.

1. Information submitted for all seven (7) items listed above = 5 points
2. Information submitted for any six (6) items listed above = 4 points
3. Information submitted for any five (5) items listed above = 3 points
4. Information submitted for any four (4) items listed above = 2 points
5. Information submitted for any three (3) items listed above = 1 point

No information or information for any one (1) or two (2) item(s) listed above submitted = 0 points.

<p><b>9.2 RELEVANT EXPERIENCE OF THE COMPANY</b></p> <p>Bidders are to provide and submit a list of comparable projects of a similar nature and monetary value of CIDB Grade 6 and above with contactable references for repair and maintenance type projects currently engaged in and or completed during the past 10 years. Projects to be listed in DPW-09 EC form.</p> <p>For completed projects bidders are to submit together with the tender document completion certificates, and for current projects, bidders are to submit together with the tender document appointment letters.</p> <p>(i) Five or more completed/current projects = 5 points  (ii) Four completed/current projects = 4 points  (iii) Three completed/current projects = 3 points  (iv) Two completed/current projects = 2 points  (v) One completed/current project = 1 point</p> <p>No information submitted = 0 point</p>	<p>25</p>
<p><b>9.3 EQUIPMENTS</b></p> <p>The bidders are to provide evidence of cleaning equipment, hand tools, machinery, utility vehicles, and instrumentations owned or to be hired/rented in order to carry out the project.</p> <p>Bidders are to complete and sign ANNEXURE A for cleaning equipment, Instrumentations, hand tools, machinery, and utility vehicles.</p> <p>Bidders are to submit proof of equipment and hand tools owned or to be rented/hired from suppliers. Copies of vehicle(s) registrations must be submitted or agreement.</p> <p>An agreement between the bidder and supplier for rentals/hired items must be submitted. (You're required to submit your firm's asset register or agreement between bidder and supplier for rentals)</p> <p>i. Cleaning Equipments  ii. Instrumentations  iii. Utility vehicles  iv. Machinery  v. Hand tools</p> <p>1. Information submitted for all five (5) items listed above = 5 points  2. Information submitted for any four (4) items listed above = 4 points  3. Information submitted for any three (3) items listed above = 3 points  4. Information submitted for any two (2) items listed above = 2 points  5. Information submitted for any one (1) item listed above = 1 point</p> <p>No information submitted = 0 point</p>	<p>15</p>



<p><b>9.4 BANK RATING</b></p> <p>The bidder to provide and submit an original bank stamped rating letter or certified copy of such a letter which is not older than 3 months on the closing date of the tender.</p> <p>i) Bank rating of A = 5 points ii) Bank rating of B = 4 points iii) Bank rating of C = 3 points iv) Bank rating of D = 2 points v) Bank rating of E = 1 point</p> <p>NB: Bidders will only be scored based on the banking rating submitted of (A,B,C,D or E).</p> <p>NB: If a stamped bank letter with no ratings (A,B,C,D or E) is provided , the bidder will receive 0 points.</p> <p>NB: In the case of JV, both bidders will need to submit their bank rating letters, and the JV will score the average points from the 2 scores.</p>	25
<b>Total</b>	<b>100 Points</b>

(Weights for functionality must add up to 100. Weightings will be multiplied by the scores allocated during the evaluation process to arrive at the total functionality points)

<b>Minimum functionality score to qualify for further evaluation:</b>	<b>65</b>
---	-----------

(Total minimum qualifying score for functionality is 50 Percent, any deviation below or above the 50 Percent, provide motivation below)

Land Ports of Entry are categorized as National Key Points, therefore any service provider appointed must meet high quality standards in terms of performance and service delivery within the prescribed scope, time, cost, and quality.
--

### 3. THE FOLLOWING EVALUATION METHOD FOR RESPONSIVE BIDS WILL BE APPLICABLE:

<input type="checkbox"/> Method 1 (Financial offer)	<input checked="" type="checkbox"/> Method 2 (Financial and Preference offer)
---	---

#### 3.1. Indicate which preference points scoring system is applicable for this bid:

<input type="checkbox"/> <b>80/20</b> Preference points scoring system	<input checked="" type="checkbox"/> <b>90/10</b> Preference points scoring system	<input type="checkbox"/> <b>Either 80/20 or 90/10</b> Preference points scoring system
---	--	---

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".

Page 4 of

#### 4. RESPONSIVENESS CRITERIA

4.1. Indicate substantive responsiveness criteria applicable for this tender. Failure to comply with the criteria stated hereunder **shall** result in the tender offer being disqualified from further consideration:

1	<input checked="" type="checkbox"/>	Only those tenderers who satisfy the eligibility criteria stated in the Tender Data may submit tenders.
2	<input checked="" type="checkbox"/>	Tender offer must be properly received on the tender closing date and time specified on the invitation, completed either electronically (if issued in electronic format), or by writing legibly in non-erasable ink. (All as per Standard Conditions of Tender).
3	<input checked="" type="checkbox"/>	Use of correction fluid is prohibited.
4	<input checked="" type="checkbox"/>	Submission of a signed bid offer as per the DPW-07 (EC).
5	<input type="checkbox"/>	Submission of DPW-09 (EC): Particulars of Tenderer's Projects.
6	<input type="checkbox"/>	Bidders must comply with DPW-21 (EC): Record of Addenda to tender documents, if any.
7	<input type="checkbox"/>	Submission of DPW-16 signed by the authorised official and completion of bid briefing attendance register.
8	<input type="checkbox"/>	The tenderer shall submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts) together with his tender.
9	<input type="checkbox"/>	The tenderer shall submit his fully priced and completed sectional summary- and final summary pages with the tender.
10	<input checked="" type="checkbox"/>	Bidders should be registered and active on CIDB with grading designated of 7CE or 7GB or higher at the closing date of the tender. In case of JV, all entities must be registered and active on CIDB.
11	<input checked="" type="checkbox"/>	Attendance of compulsory briefing meeting and signing of the attendance register. Service Providers to familiarize themselves with the conditions of the site and the distance/road conditions to and from the site. This will enable them to submit a more realistic offer (tender) amount, therefore the clarification meeting is declared compulsory.
12	<input checked="" type="checkbox"/>	The tenderer shall submit his/her fully priced Bills of Quantities (complete document inclusive of all parts) together with his/her tender. This project has now been classified as an emergency, and the urgent procurement of the follow-on RAMP project/contract is critical to ensure seamless and continuous implementation of the RAMP project. This will help avoid any gaps between the current and follow-on contracts, thereby maintaining the momentum and progress of the overall RAMP initiative.
13	<input type="checkbox"/>	Specify other responsiveness criteria
14	<input type="checkbox"/>	Specify other responsiveness criteria
15	<input type="checkbox"/>	Specify other responsiveness criteria

4.2. Indicate administrative requirements applicable for this tender. Tenderers may be required to submit the below documents where applicable.

The Employer reserves the right to request further information regarding the undermentioned criteria. Failing to submit further clarification and/or documentation within seven (7) calendar days from request or as specifically indicated, will disqualify the tender offer from further consideration.

1	<input checked="" type="checkbox"/>	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 JV's.
2	<input checked="" type="checkbox"/>	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	<input checked="" type="checkbox"/>	All parts of tender documents submitted must be fully completed in ink and signed where required.
4	<input checked="" type="checkbox"/>	Submission of (PA-11): Bidder's disclosure
5	<input checked="" type="checkbox"/>	Submission of PA-16.1 (EC): Ownership Particulars
6	<input checked="" type="checkbox"/>	Submission of documentation relating to <b>risk assessment criteria</b> as contained in C 2.1 of DPW-03 Tender Data.
7	<input checked="" type="checkbox"/>	Submission of (PA 40): Declaration of Designated Groups.
8	<input checked="" type="checkbox"/>	Submission of proof of Registration on National Treasury's Central Supplier Database (CSD). Insert the Supplier Registration Number on the form of offer, including proposed sub-contractors if any
9	<input checked="" type="checkbox"/>	Data provided by the tenderer in Part 2 of DPW-04 Contract Data (JBCC 2018) or DPW-05 Contract Data (GCC 2015) whichever applicable to be fully completed.
10	<input type="checkbox"/>	The tenderer shall submit his fully priced Bills of Quantities (complete document inclusive of all parts) within 14 calendar days from request.
11	<input checked="" type="checkbox"/>	Upon request, submission of fingerprints obtainable from local SAPS including any other additional documentation and information required for vetting purposes.
12	<input checked="" type="checkbox"/>	Upon request, submission of a fully completed security clearance application form with supporting documentation and information as required. The security clearance form will be provided by the Employer for projects requiring a security clearance.
13	<input checked="" type="checkbox"/>	Submission of DPW- 09 (EC): Particulars of Tenderer's Projects
14	<input checked="" type="checkbox"/>	Bidders must comply with DPW-21 (EC): Record of Addenda to tender documents, if any
15	<input checked="" type="checkbox"/>	Submission of DPW-16 signed (Site inspection meeting certificate) by the authorised official and completion of bid briefing attendance register.
16	<input checked="" type="checkbox"/>	Role players of references to be indicated in the DPW- 09 (EC) Particulars of Tender's Projects should be User Clients, Consultants and Principals agents. Only contactable reference numbers to appear in the DPW-09 (EC) form.
17	<input checked="" type="checkbox"/>	Sworn affidavit for the full-time employment of work force for the duration of the project. Indicating clearly that equally or higher qualified personnel will be employed after award of the tender if personnel are lost due to any reason
18	<input checked="" type="checkbox"/>	Submission of copies of ID's for all key personnel who will be involved in this project and the submission of registration certificates for the Construction Manager, Health and Safety Officer, and or Health and Safety Manager from SACPCMP or ECSA.

**4.3. Indicate administrative requirements applicable for specific goals, Tenderers will not be required to submit the below document if not provided in the original tender proposals, Failure to comply with the criteria stated hereunder shall result in the tenderer not allocated points for specific goals.**

1	<input checked="" type="checkbox"/>	Submission of (PA-16): Preference Points Claim Form in terms of the Preferential Procurement Regulations 2022
2	<input checked="" type="checkbox"/>	A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Certificate issued by a SANAS accredited service provider

## 5. METHOD TO BE USED TO CALCULATE POINTS FOR SPECIFIC GOALS:



**5.1. For procurement transaction with rand value greater than R1 Million and up to R50 Million (Inclusive of all applicable taxes) the specific goals listed in table 1 below are applicable.**

**Table 1**

Serial No	Specific Goals	Preference Points Allocated out of 20	Documentation to be submitted by bidders to validate their claim
1.	An EME or QSE which is at least 51% owned by black people (Mandatory)	10	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
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 (Mandatory)	2	<ul style="list-style-type: none"> <li>Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul>
3.	An EME or QSE or any entity which is at least 51% owned by black women (Mandatory)	4	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
4.	An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <p>National Council for Persons with Physical Disability in South Africa registration (NCPDSA).</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".

5.	An EME or QSE or any entity which is at least 51% owned by black youth (Mandatory)	2	<ul style="list-style-type: none"> <li>ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
----	--	---	---

**8.2. For procurement transaction with rand value greater than R50 Million (Inclusive of all applicable taxes) the specific goals listed in table 2 below are applicable.**



**NB. The use of one of goal numbers' 4 or 5 is mandatory. The BSC must select either one of the two, but not both.**

**Table 2**

Serial No	Specific Goals	Preference Points Allocated out of 10	Documentation to be submitted by bidders to validate their claim
1.	An EME or QSE or any entity which is at least 51% owned by black people (Mandatory)	4	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
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 (Mandatory)	2	<ul style="list-style-type: none"> <li>Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul>
3.	An EME or QSE or any entity which is at least 51% owned by black women (mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
4. <input type="checkbox"/>	An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>Medical Certificate indicating that the disability is permanent.</li> </ul>

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".

Page 8 of

	OR			Or <ul style="list-style-type: none"> <li>South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> Or National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).
		5. <input checked="" type="checkbox"/> An EME or QSE or any entity which is at least 51% owned by black youth (Mandatory)	2	<ul style="list-style-type: none"> <li>ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>

**Black people** mean Africans, Coloureds and Indians, who - (a) are citizens of the Republic of South Africa by birth or descent; or (b) became citizens of the Republic of South Africa by naturalisation - (i) before 27 April 1994; or (ii) on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalisation prior to that date. (BROAD-BASED BLACK ECONOMIC EMPOWERMENT ACT No 25899, 2003 of 9 JANUARY 2004).

## 6. BID EVALUATION METHOD

This bid will be evaluated according to the preferential procurement model in the PPPFA: (Tick applicable preference point scoring system)

<input type="checkbox"/> <b>80/20</b> Preference points scoring system	<input checked="" type="checkbox"/> <b>90/10</b> Preference points scoring system	<input type="checkbox"/> <b>Either 80/20 or 90/10</b> Preference points scoring system
---	--	---

In case where below/above R 50 000 000 is selected, the lowest acceptable tender will be used to determine the applicable preference point system.

## 7. ELIGIBILITY IN RESPECT OF RISK TO THE EMPLOYER:

**Standard risk management assessment criteria in respect of tenders received for routine projects in the engineering and construction works environments:**

Tender offers will be evaluated by an Evaluation Committee based on the technical and commercial risk criteria listed hereunder. Each criterion carries the same weight / importance and will be evaluated individually based on reports presented to the Bid Evaluation Committee by the Professional Team appointed on the project. A tender offer will be declared non-responsive and removed from any further evaluation if any one criterion is found to present an unacceptable risk to the Employer.

In order for the evaluation reports to be prepared by the Professional Team, the Tenderer is obliged to provide comprehensive information on form DPW-09 (EC). Failure to complete the said form will cause the tender to be declared non-responsive and removed from any further consideration. The Employer reserves the right to request additional information over and above that which is provided by the Tenderer on said form. The information must be provided by the Tenderer within the stipulated time as determined by the Bid Evaluation Committee, failing which the tender offer will *mutatis mutandis* be declared non-responsive.



## 7.1 Technical risks:

### Criterion 1: Experience on comparable projects during the past 10 years.

The tendering Service Provider's experience on comparable projects during the past 10 years. The number of current and previous comparable projects performed by the Tenderer as per the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer will be *mutatis mutandis* declared non-responsive.

Aspects to be regarded as "comparable" includes (but may be extended according to circumstances): size of projects (measured against monetary value or other project quantifying parameters), nature of projects (building, engineering, high/low rise, etc.), locality/area of execution (site-specific influences, knowledge of local conditions, etc.), complexity of project, projects for similar client department irrespective of end purpose of buildings/facilities created or in progress of being created and time scales of projects (normal, fast track, etc.) and stage of its/their development.

### Criterion 2: Contractual commitment and quality of performance on comparable projects during the past 10 years.

Adherence to contractual commitments and quality of performance of comparable current and previous projects performed by the Tenderer during the past 10 years as per the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer be *mutatis mutandis* declared non-responsive.

Aspects to be considered include, but are not limited to the following:

1. The level of progress on current projects in relation to the project programme or, if such is not available/applicable, to the contractual construction period in general;
2. The degree to which previous projects have been completed within the contractual completion periods and/or extensions thereto, and the extend of penalties imposed;
3. Project performance: time management & programming of works, timeous ordering of materials and appointment of subcontractors;
4. Financial management: payment to suppliers and cash flow problems;
5. Quality of workmanship: extent of reworks and timeous attention to remedial works;
6. Personnel resources: suitably qualified and experienced, turnover in site staff and labour force, specifically site manager and foreman;
7. Personnel management: extent of labour disputes and ability to resolving labour disputes amicably;
8. Sub-contractors: extent of turnover in subcontractors, general liaison and payment problems experienced;
9. Contract administration: contractual aspects such as complying to laws and regulations, insurances, security, submission of required documentation timeously, reaction to written contract instructions, appointments of subcontractors, etc. as can generally be expected in standard/normal conditions of contract.
10. Health & Safety: adherence to regulations and compliance, and number of transgressions & serious incidents.
11. Plant & equipment: sufficient resources on site and in time.
12. Delays: extent of causing delays, submission of claims timeously, and abuse of or exaggerated delay claims.
13. Final account: extent to which the contractor assisted in finalising the final account.

### Criterion 3: Suitably qualified and appropriately experienced human resources

Allocation of suitably qualified and appropriately experienced human resources, both in respect of principals and/or other staff (contract manager, site agent, site foreman including other professional, technical and/or administrative) of the tendering Service Provider to the project, as proof that the tendering Service Provider will be able to react/respond appropriately to the Services required herein. The Company Organogram with CV's and certified ID's of all principals and employed workforce as well as proof of Professional Registration

will be verified. Current and future workload of the tenderer in relation to capacity and capability will also be considered. The tenderer should demonstrate that he or she possesses the necessary professional and technical qualifications and -competence in relation to the scope of work and work to be undertaken.

#### **Criterion 4: Attendance of compulsory bid clarification meeting, if applicable**

If applicable, submission of confirmation of DPW-16.1 (PSB) attendance of compulsory bid clarification meeting or proof of attending the compulsory virtual meeting by a suitably qualified and experienced representative of the tenderer in terms of PA-04 (EC): Notice and Invitation to Tender.

### **7.2 Commercial risks:**

The financial viability assessment evaluates the risk over the life of the construction period, as to whether the tenderer will be able to deliver the goods and services which are specified in the contract and / or be able to fulfil guarantees or warranties provided for in the contract in order to complete the project successfully for the amount tendered.

Aspects to be considered include but are not limited to, the respective rates tendered, bank rating, financial capability and capacity whether the tenderer has or has access to sufficient financial resources to deliver the goods or services described in the tender documentation (including fulfilling any guarantees or warranty claims), whether the tenderer is not subject to any current or impending legal action (either formal proceedings or notification of legal action) which could impact on the financial standing of the tenderer or the delivery of the goods or services, financial report from auditors as proof of current liquidity, and company or any parent company or investor guarantee/s and financial statements.

### **8. CONTRACT PARTICIPATION GOAL TARGETS AND CIDB B.U.I.L.D. PROGRAMME**

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as described in PG-01.2 (EC): Scope of Work and PG-02.2 (EC): Pricing Assumptions and in accordance with the feasibility study, which forms part of the specifications in the CPG Section of the Specification of this contract.

(a)	Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b>Applicable</b>
(b)	Minimum Targeted Local Building Material Suppliers Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b>Applicable</b>
(c)	Minimum Targeted Local Labour Skills Development Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b>Applicable</b>
(d)	<b>cidb BUILD Programme:</b> Minimum Targeted Enterprise Development Contract Participation Goal in accordance with the cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b>Applicable</b>



(e)	<b>cidb BUILD Programme:</b> Minimum Targeted Local Labour Skills Development Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 48491 of 28 April 2023 and the cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.– Condition of Contract	<b>Applicable</b>
(f)	DPWI National Youth Service training and development programme (NYS) – Condition of Contract.	<b>Not applicable</b>
(g)	Labour Intensive Works – Condition of Contract.	<b>Applicable</b>
(h)		<b>Select</b>
(i)		<b>Select</b>

## 9. COLLECTION OF TENDER DOCUMENTS

☒ Bid documents are available for free download on Departmental website: [www.publicworks.gov.za](http://www.publicworks.gov.za) or e-Tender portal [www.etenders.gov.za](http://www.etenders.gov.za)

☒ Alternatively; Bid documents may be collected during working hours at the following address 256 Madiba Street CGO Building. A non-refundable bid deposit of R 800 is payable (cash only) on collection of the bid documents.

## 10. SITE INSPECTION MEETING

A pre-tender site inspection meeting will **be** held in respect of this tender.  
Attendance of said pre- tender site inspection meeting is **compulsory**

The particulars for said pre- tender site inspection meeting or virtual bid clarification / site inspection meeting. are:

<b>Venue:</b>	KOPFONTEIN BORDER POST		
<b>Virtual meeting link:</b>	N/A		
<b>Date:</b>	Tuesday, 10 September 2024	<b>Starting time:</b>	11:00am

## 11. ENQUIRIES

11.1. Technical enquiries may be addressed to:

<b>DPWI Project Manager</b>	Hazel Ratombo	<b>Telephone no:</b>	012 406 1519
<b>Cellular phone no</b>	081 035 0257	<b>Fax no:</b>	n/a
<b>E-mail</b>	Hazel.Ratombo@dpw.gov.za		

11.2. SCM enquiries may be addressed to:

<b>SCM Official</b>	Saziso Ndlovu	<b>Telephone no:</b>	012 406 2023
<b>Cellular phone no</b>	072 396 9564	<b>Fax no:</b>	n/a
<b>E-mail</b>	Saziso.Ndlovu@dpw.gov.za		

## 12. DEPOSIT / RETURN OF TENDER DOCUMENTS

Telegraphic, telephonic, telex, facsimile, electronic and / or late tenders will not be accepted.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

All tenders must be completed in non-erasable ink and submitted on the official forms – (forms not to be re-typed).

<b>Tender documents may be posted to:</b>  The Director-General Department of Public Works and Infrastructure Private Bag X 65 Pretoria 0001  <b>Attention:</b> <b>Procurement section:</b> Room 121 First Floor	<b>OR</b>	<b>Deposited in the tender box at:</b>  Department of Public Works Corner of Bosman and Madiba Street  256 Madiba Street Central Government offices - CGO Building Corner of Bosman Madiba Street Room121
---	-----------	--

## DPW-03 (EC): TENDER DATA

<b>Project title:</b>	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)</b>
<b>Reference no:</b>	H24/025AI

<b>Tender / Quotation no:</b>	H24/025AI	<b>Closing date:</b>	23 September 2024
<b>Closing time:</b>	11:00AM	<b>Validity period:</b>	12 Weeks (84 Calendar days)

<b>Clause number:</b>	
	<p>The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement as per Government Notice No. 423 published in Government Gazette No. 42622 of 8 August 2019 and as amended from time to time. (see <a href="http://www.cidb.org.za">www.cidb.org.za</a>).</p> <p>The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.</p> <p>Each item of data given below is cross-referenced to the clause marked "C" in the above mentioned Standard Conditions of Tender.</p>
<b>C.1.1</b>	The employer is the Government of the Republic of South Africa in its Department of Public Works and Infrastructure.
<b>C.1.2</b>	<p>For this contract the three volume approach is adopted.</p> <p>This procurement document has been formatted and compiled under the headings as contained in the CIDB's "Standard for Uniformity in Construction Procurement."</p> <p>The three volume procurement document issued by the employer comprises the following:</p> <p>Volume 1: Tendering procedures T1.1 - Notice and invitation to tender (PA-04 EC) T1.2 - Tender data (DPW-03 EC)</p> <p>Volume 2: Returnable documents T2.1 - List of returnable documents (PA-09 EC) C1.1 - Form of offer and acceptance (DPW-07 EC) C1.2 – Contract Data T2.2 - Returnable schedules</p> <p>Volume 3: Contract Part C1: Agreement and contract data C1.2 - Contract data (Part 1: Data provided by employer) (DPW-04 EC or DPW-05 EC) C1.3 - Form of guarantee (DPW-10.1 EC / DPW-10.3EC or DPW-10.2 EC/DPW-10.4 EC)</p> <p>Part C2: Pricing data C2.1 - Pricing Assumptions (PG-02.2 EC or PG-02.1EC) C2.2 - Bills of Quantities / Lump sum document (if not a returnable document)</p> <p>Part C3: Scope of work C3 - Scope of work (PG-01.2 EC or PG-01.1EC)</p> <p>Part C4: Site information C4 - Site information (PG-03.2 EC or PG03.1EC)</p>

Tender no: H24/025AI

<b>C.1.4</b>	The Employer's agent is:	
	Name:	<b>Mr Antony Marunga</b>
	Capacity:	<b>Private Project Manager</b>
	Address:	<b>Prociv-KNA JV Unit 6, CMA Office and Conference Park No.1 2<sup>nd</sup> Road, Halfway House Estate Midrand 1685</b>
	Tel:	<b>0833814286</b>
	Fax:	<b>N/A</b>
	E-mail:	<b>amarunga@prociv.co.za</b>
<b>C.2.1 C.3.11</b>	<p><b>A. <u>ELIGIBILITY IN RESPECT OF CIDB REGISTRATION:</u></b></p> <p>The following tenderers who are registered with the CIDB, or are *capable of being so registered prior to the evaluation of submissions, are eligible to have their tenders evaluated (* tenderers who are capable of being so registered, or who have applied for registration but have not yet received confirmation of such registration, must provide, <u>with this tender</u>, acceptable documentary proof thereof):</p> <ul style="list-style-type: none"> <li>a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations, for a <b>7 CE</b> or <b>7 GB**</b> class of construction work; and</li> <li>b) contractors registered as potentially emerging enterprises with the CIDB who are registered in one contractor grading designation lower than that required in terms of a) above: <b>Not applicable</b></li> </ul> <p>Joint ventures are eligible to submit tenders provided that:</p> <ul style="list-style-type: none"> <li>1. every member of the joint venture is registered with the CIDB;</li> <li>2. the lead partner has a contractor grading designation in the class of construction work; and</li> <li>3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25 (7A) of the Construction Industry Development Regulations for a <b>7 CE</b> or <b>7 GB**</b> class of construction work</li> </ul> <p><b>** Delete "or select tender value range select class of construction works" where only one class of construction works is applicable</b></p> <p>A contract will be entered into with a tenderer who has in his employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for supervisory and management staff: <b>Applicable</b></p>	

Tender no: H24/025AI

**C. FUNCTIONALITY WEIGHTING APPLICABLE TO THIS BID:**

**Note:** Failure to meet minimum functionality score will result in the tenderer being disqualified.

<b>Functionality Criteria</b>	<b>Weighting Factor</b>
<p><b>9.1 PROJECT WORK FORCE</b></p> <p>The bidders are to provide proof of the proposed Work Force in the form of a project organogram that will be employed for the duration of this project.</p> <p>The proposal to include the following required Personnel:</p> <p>(i) Construction Manager with a minimum qualification of a National Diploma or higher in Built Environment and with proof of registration as a professional with SACPCMP or ECSA.  (ii) Site Agent with a minimum qualification of Diploma in Built Environment.  (iii) 1 x Plumber (with a minimum NQF Level 1 or Higher or an Artisan Recognition of Prior Learning (ARPL)  (iv) Process Controllers Class III (1) and Class II (1) or Higher (All required)  (v) 1 x Electrician  (vi) 1 x Air- Conditioner Technician  (vii) Health and Safety Officer or Health and Safety Manager. Health and Safety Officer or Manager must be registered with SACPCMP as professionals.</p> <p>NB: Bidder must submit a sworn affidavit that these or similar personnel will be employed after the award of the tender.</p> <p>NB: If any of the above services are to be sub-contracted, the bidder must attach the CSD report of the subcontractor(s) and should indicate the details of the subcontractor(s) on the DPW 15 (EC) and DPW 22 (EC) forms and submit all necessary documents for key personnel as listed below.</p> <p>Bidders are to provide the following (for all above-mentioned key personnel):</p> <ul style="list-style-type: none"> <li>• CVs of each key personnel to be involved in this project</li> <li>• Copies of qualifications for all key personnel to be involved in this project.</li> <li>• Trade certificates for Electrician, Plumber, and Air - conditioner technicians.</li> <li>• Copies of Certificates of Process Controllers Class III and Class II.</li> </ul> <p>NB: All Certifications for key personnel should be valid or active.</p> <p>1. Information submitted for all seven (7) items listed above = 5 points  2. Information submitted for any six (6) items listed above = 4 points  3. Information submitted for any five (5) items listed above = 3 points</p>	35

	<p>4. Information submitted for any four (4) items listed above = 2 points 5. Information submitted for any three (3) items listed above = 1 point No information or information for any one (1) or two (2) item(s) listed above submitted = 0 points.</p> <p><b>9.2 RELEVANT EXPERIENCE OF THE COMPANY</b></p> <p>Bidders are to provide and submit a list of comparable projects of a similar nature and monetary value of CIDB Grade 6 and above with contactable references for repair and maintenance type projects currently engaged in and or completed during the past 10 years. Projects to be listed in DPW-09 EC form.</p> <p>For completed projects bidders are to submit together with the tender document completion certificates, and for current projects, bidders are to submit together with the tender document appointment letters.</p> <p>(i) Five or more completed/current projects = 5 points (ii) Four completed/current projects = 4 points (iii) Three completed/current projects = 3 points (iv) Two completed/current projects = 2 points (v) One completed/current project = 1 point No information submitted = 0 point</p> <p><b>9.3 EQUIPMENTS</b></p> <p>The bidders are to provide evidence of cleaning equipment, hand tools, machinery, utility vehicles, and instrumentations owned or to be hired/rented in order to carry out the project.</p> <p>Bidders are to complete and sign ANNEXURE A for cleaning equipment, Instrumentations, hand tools, machinery, and utility vehicles.</p> <p>Bidders are to submit proof of equipment and hand tools owned or to be rented/hired from suppliers. Copies of vehicle(s) registrations must be submitted or agreement. An agreement between the bidder and supplier for rentals/hired items must be submitted. (You're required to submit your firm's asset register or agreement between bidder and supplier for rentals)</p> <p>i. Cleaning Equipments ii. Instrumentations iii. Utility vehicles iv. Machinery v. Hand tools</p> <p>1. Information submitted for all five (5) items listed above = 5 points 2. Information submitted for any four (4) items listed above = 4 points 3. Information submitted for any three (3) items listed above = 3 points 4. Information submitted for any two (2) items listed above = 2 points 5. Information submitted for any one (1) item listed above = 1 point No information submitted = 0 point</p>	<p></p> <p>25</p> <p>15</p>
--	---	-----------------------------

	<p><b>9.4 BANK RATING</b></p> <p>The bidder to provide and submit an original bank stamped rating letter or certified copy of such a letter which is not older than 3 months on the closing date of the tender.</p> <p>i) Bank rating of A = 5 points  ii) Bank rating of B = 4 points  iii) Bank rating of C = 3 points  iv) Bank rating of D = 2 points  v) Bank rating of E = 1 point</p> <p>NB: Bidders will only be scored based on the banking rating submitted of (A,B,C,D or E).</p> <p>NB: If a stamped bank letter with no ratings (A,B,C,D or E) is provided , the bidder will receive 0 points.</p> <p>NB: In the case of JV, both bidders will need to submit their bank rating letters, and the JV will score the average points from the 2 scores.</p>	<p>25</p>
	<b>Total</b>	<b>100 Points</b>
<p><i>(Weightings will be multiplied by the scores allocated during the evaluation process to arrive at the total functionality points)</i></p>		
	<p><b>Minimum functionality score to qualify for further evaluation:</b></p>	<p><b>65</b></p>

☐

**D. METHOD TO BE USED TO CALCULATE POINTS FOR SPECIFIC GOALS**

**D1. For procurement transaction with rand value greater than R2 000,00 and up to R1 Million (Inclusive of all applicable taxes) the specific goals listed below are applicable.**

**Table 1**

Serial No	Specific Goals	Preference Points Allocated out of 20	Documentation to be submitted by bidders to validate their claim
1.	An EME or QSE which is at least 51% owned by black people (Mandatory)	10	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
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 (Mandatory)	2	<ul style="list-style-type: none"> <li>Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p>

			<ul style="list-style-type: none"> <li>• Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Lease Agreement which is in the name of the bidder.</li> </ul>
3.	An EME or QSE which is at least 51% owned by black women (Mandatory)	4	<ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
4.	An EME or QSE which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>• Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).</li> </ul>
5.	An EME or QSE which is at least 51% owned by black youth (Mandatory)	2	<ul style="list-style-type: none"> <li>• ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>

☐ **D2. For procurement transaction with rand value greater than R1 Million and up to R50 Million (Inclusive of all applicable taxes) the specific goals listed in table 1 below are applicable.**

**Table 2**

Seri al No	Specific Goals	Preference Points Allocated out of 20	Documentation to be submitted b bidders to validate their claim
1.	An EME or QSE or any entity which is at least 51% owned by black people (Mandatory)	10	<ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
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 (Mandatory)	2	<ul style="list-style-type: none"> <li>• Official Municipal Rates Statement which is in the name of the bidder</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p>



			<ul style="list-style-type: none"> <li>• Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Lease Agreement which is in the name of the bidder.</li> </ul>
3.	An EME or QSE or any entity which is at least 51% owned by black women (Mandatory)	4	<ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
4.	An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>• Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <p>National Council for Persons with Physical Disability in South Africa registration (NCPPDSA).</p>
5.	An EME or QSE or any entity which is at least 51% owned by black youth (Mandatory)	2	<ul style="list-style-type: none"> <li>• ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>

☒

**D3. For procurement transaction with rand value greater than R50 Million (Inclusive of all applicable taxes) the specific goals listed in table 2 below are applicable.**

**NB. The use of one of goal numbers' 4 or 5 is mandatory. The BSC must select either one of the two, but not both.**

**Table 3**

Serial No	Specific Goals	Preference Points Allocated out of 10	Documentation to be submitted to bidders to validate their claim
1.	An EME or QSE or any entity which is at least 51% owned by black people (Mandatory)	4	<ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>

	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 (Mandatory)	2	<ul style="list-style-type: none"> <li>Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul>	
	3.	An EME or QSE or any entity which is at least 51% owned by black women (mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>	
	4. <input type="checkbox"/>	An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <p>National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).</p>	
	OR				
	5. <input checked="" type="checkbox"/>	An EME or QSE or any entity which is at least 51% owned by black youth (Mandatory)	2	<ul style="list-style-type: none"> <li>ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>	

**Black people** mean Africans, Coloureds and Indians, who - (a) are citizens of the Republic of South Africa by birth or descent; or (b) became citizens of the Republic of South Africa by naturalisation - (i) before 27 April 1994; or (ii) on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalisation prior to that date. (BROAD-BASED BLACK ECONOMIC EMPOWERMENT ACT No 25899, 2003 of 9 JANUARY 2004).

Tender no: H24/025AI

## **E. ELIGIBILITY IN RESPECT OF RISK TO EMPLOYER:**

**Standard risk management assessment criteria in respect of tenders received for routine projects in the engineering and construction works environments:**

Tender offers will be evaluated by an Evaluation Committee based on the technical and commercial risk criteria listed hereunder. Each criterion carries the same weight / importance and will be evaluated individually based on reports presented to the Bid Evaluation Committee by the Professional Team appointed on the project. A tender offer will be declared non-responsive and removed from any further evaluation if any one criterion is found to present an unacceptable risk to the Employer.

In order for the evaluation reports to be prepared by the Professional Team, the Tenderer is obliged to provide comprehensive information on form DPW-09 (EC). Failure to complete the said form will cause the tender to be declared non-responsive and removed from any further consideration. The Employer reserves the right to request additional information over and above that which is provided by the Tenderer on said form. The information must be provided by the Tenderer within the stipulated time as determined by the Bid Evaluation Committee, failing which the tender offer will *mutatis mutandis* be declared non-responsive.

### **E.1 Technical risks:**

#### **Criterion 1: Experience on comparable projects during the past 10 years.**

The tendering Service Provider's experience on comparable projects during the past 10 years. The number of current and previous comparable projects performed by the Tenderer as per the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer will be *mutatis mutandis* declared non-responsive.

Aspects to be regarded as "comparable" includes (but may be extended according to circumstances): size of projects (measured against monetary value or other project quantifying parameters), nature of projects (building, engineering, high/low rise, etc.), locality/area of execution (site-specific influences, knowledge of local conditions, etc.), complexity of project, projects for similar client department irrespective of end purpose of buildings/facilities created or in progress of being created and time scales of projects (normal, fast track, etc.) and stage of its/their development.

#### **Criterion 2: Contractual commitment and quality of performance on comparable projects during the past 10 years.**

Adherence to contractual commitments and quality of performance of comparable current and previous projects performed by the Tenderer on comparable projects during the past 10 years as per the evaluation report prepared by the Consultant Team, based on its research and inspection of a representative sample of the Tenderer's current and previous work as reflected on form DPW-09 (EC), as well as, if necessary, of any additional work executed by the Tenderer, not reflected on form DPW-09 (EC). Failing to provide contactable references will result in the tender offer be *mutatis mutandis* declared non-responsive.

Aspects to be considered include, but are not limited to the following:

1. The level of progress on current projects in relation to the project programme or, if such is not available/applicable, to the contractual construction period in general;
2. The degree to which previous projects have been completed within the contractual completion periods and/or extensions thereto, and the extend of penalties imposed;

**Tender no:** H24/025AI

	<ol style="list-style-type: none"> <li>3. Project performance: time management &amp; programming of works, timeous ordering of materials and appointment of subcontractors;</li> <li>4. Financial management: payment to suppliers and cash flow problems;</li> <li>5. Quality of workmanship: extent of reworks and timeous attention to remedial works;</li> <li>6. Personnel resources: suitably qualified and experienced, turnover in site staff and labour force, specifically site manager and foreman;</li> <li>7. Personnel management: extent of labour disputes and ability to resolving labour disputes amicably;</li> <li>8. Sub-contractors: extent of turnover in subcontractors, general liaison and payment problems experienced;</li> <li>9. Contract administration: contractual aspects such as complying to laws and regulations, insurances, security, submission of required documentation timeously, reaction to written contract instructions, appointments of subcontractors, etc. as can generally be expected in standard/normal conditions of contract.</li> <li>10. Health &amp; Safety: adherence to regulations and compliance, and number of transgressions &amp; serious incidents.</li> <li>11. Plant &amp; equipment: sufficient resources on site and in time.</li> <li>12. Delays: extent of causing delays, submission of claims timeously, and abuse of or exaggerated delay claims.</li> <li>13. Final account: extent to which the contractor assisted in finalising the final account.</li> </ol> <p><b>Criterion 3: Suitably qualified and appropriately experienced human resources</b></p> <p>Allocation of suitably qualified and appropriately experienced human resources, both in respect of principals and/or other staff (contract manager, site agent, site foreman including other professional, technical and/or administrative) of the tendering Service Provider to the project, as proof that the tendering Service Provider will be able to react/respond appropriately to the Services required herein. The Company Organogram with CV's and certified ID's of all principals and employed workforce as well as proof of Professional Registration will be verified. Current and future workload of the tenderer in relation to capacity and capability will also be considered. The tenderer should demonstrate that he or she possesses the necessary professional and technical qualifications and -competence in relation to the scope of work and work to be undertaken.</p> <p><b>Criterion 4: Attendance of compulsory bid clarification meeting, if applicable</b></p> <p>If applicable, submission of confirmation of DPW-16.1 (PSB) attendance of compulsory bid clarification meeting or proof of attending the compulsory virtual meeting by a suitably qualified and experienced representative of the tenderer in terms of PA-04 (EC): Notice and Invitation to Tender.</p> <p><b>E.2 Commercial risks:</b></p> <p>The financial viability assessment evaluates the risk over the life of the construction period, as to whether the tenderer will be able to deliver the goods and services which are specified in the contract and / or be able to fulfil guarantees or warranties provided for in the contract in order to complete the project successfully for the amount tendered.</p> <p>Aspects to be considered include but are not limited to, the respective rates tendered, bank rating, financial capability and capacity whether the tenderer has or has access to sufficient financial resources to deliver the goods or services described in the tender documentation (including fulfilling any guarantees or warranty claims), whether the tenderer is not subject to any current or impending legal action (either formal proceedings or notification of legal action) which could impact on the financial standing of the tenderer or the delivery of the goods or services, financial report from auditors as proof of current liquidity, and company or any parent company or investor guarantee/s and financial statements.</p>
<b>C.2.7</b>	For particulars regarding a pre-tender site inspection meeting, see Notice and Invitation to Tender T1.1

**Tender no:** H24/025AI

<b>C.2.12</b>	<p>If a tenderer wishes to submit an alternative tender offer, the only criteria permitted for such alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements. A tenderer may submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. Provided that the tenderer's main tender offer is according to specification and would under normal circumstances be recommended for acceptance, his alternative tender offer may also be considered for the purpose of the award of the contract.</p> <p>Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal.</p> <p>Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements.</p> <p>The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.</p> <p>Alternative tender offer permitted: <span style="float: right;">Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></span></p>
<b>C.2.13.2</b>	The list of Returnable Documents identifies which of the documents a tenderer must complete when submitting a tender offer. The tenderer must submit his tender offer by completing the Returnable Documents, signing the "Offer" section in the "Form of Offer and Acceptance" and delivering the Returnable Documents back to the Department.
<b>C.2.13.5</b>	The Employer's address for delivery of tender offers and identification details to be shown on each tender offer package are as per Notice and Invitation to Tender T1.1.
<b>C.2.13.6</b> <b>C.3.5</b>	A two-envelope procedure will not be followed.
<b>C.2.15</b>	The closing time for submission of tender offers is as per Notice and Invitation to Tender T1.1.
<b>C.2.16</b>	The tender offer validity period is as per Notice and Invitation to Tender T1.1.
<b>C2.16.3</b>	Omit the wording of the last sentence for those projects which are subject to CPAP
<b>C.2.18</b>	<p>The tenderer will be required to submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts):</p> <p><input checked="" type="checkbox"/> Together with his tender; or <input type="checkbox"/> The tenderer shall submit his fully priced and completed sectional summary- and final summary pages with the tender and thereafter submit the fully completed Bills of Quantities within fourteen (14) calendar days of the date requested to do so prior to the award of the contract.</p>
<b>C.2.19</b>	Access shall be provided for inspections, tests and analysis as may be required by the Employer.
<b>C.3.4.1</b> <b>C.3.4.2</b>	<p>The location for opening of the tender offers, immediately after the closing time thereof shall be at:</p> <p><b>Central Government Offices, cnr Bosman and Madiba Streets, Room 121, 1ST Floor, Pretoria, 0001</b></p>
<b>C.3.8</b>	The words "responsive tender" and "acceptable tender" shall be construed to have the same meaning.

**Tender no:** H24/025AI

<b>C.3.9.3</b>	Omit the wording and replace with the following: “Notify the tenderer of all errors, omissions and/or rate imbalances that are identified in the tender offer and request the tenderer to, within a stipulated time, accept the total of prices as corrected in accordance with C.3.9.4.”
<b>C.3.9.4</b>	Omit the wording of the first sentence and replace with the following: “In cases where tender offers contain errors, omissions and/or rate imbalances, these are to be corrected as follows:”
<b>C.3.9.4</b>	Add sub paragraph c) to C.3.9.4, as follows: “c) If the tenderer does not accept the corrected tender offer, or cannot reach consensus with the Employer on a corrected tender offer, the tender is to be classified as not acceptable/non responsive and removed from further contention.”
<b>C.3.11.1</b>	The procedure for the evaluation of responsive tenders is Method 2: Financial Offer and Preference.
<b>C.3.13</b>	Add the following to sub paragraph a), as follows:  The tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act No. 12 of 2004) as a person prohibited from doing business with the public sector;
<b>C.3.17</b>	Provide to the successful tenderer one copy of the signed contract document.



KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **PART T2 RETURNABLE DOCUMENTS**

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

<b>Project title:</b>	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: APPOINTMENT OF A SERVICE PROVIDER/S FOR THE MAINTENANCE AND REPAIRS OF BUILDING, CIVIL, MECHANICAL, ELECTRICAL INFRASTRUCTURE AND INSTALLATIONS FOR A PERIOD OF 36 MONTHS (APPOINTMENT OF A CONTRACTOR)</b>		
<b>Tender / Quotation no:</b>	H24/025 AI	<b>Reference no:</b>	H24/025 AI
<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.

<b>Tender document name</b>	<b>Number of pages issued</b>	<b>Returnable document</b>
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) <i>(if applicable)</i>	2 Page	Yes
Resolution of Board of Directors to enter into Consortia or JV's (PA-15.2) <i>(if applicable)</i>	2 Pages	Yes
Special Resolution of Consortia or JV's (PA-15.3) <i>(if applicable)</i>	3 Pages	Yes
Preference points claim form in terms of the Preferential Procurement Regulations 2022 (PA – 16)	5 Pages	Yes
B-BBEE Exempted Affidavit for Exempted Micro Enterprises	2 Pages	Yes
Ownership Particulars (PA-16.1 EC)	6 Pages	Yes
Fully completed Declaration of Designated Groups for Preferential Procurement (PA 40)	2 Pages	Yes
Annexure A: Bidders evidence of instrumentations, hand tools, machinery, cleaning equipment and utility vehicles owned or to be hired/rented in order to carry out the project	3 Pages	Yes
Particulars of Tenderer's Projects (DPW-09 EC)	2 Pages	Yes
Submission of DPW-15 (EC): Schedule of Proposed Sub-contractors (Only if applicable)	1	Yes
Site Inspection Meeting Certificate (DPW-16 EC) <i>(if applicable)</i> .	1 Page	Yes
Record of Addenda to tender documents (DPW-21 EC) <i>(if applicable)</i>	1 Page	Yes
Particulars of Electrical Contractor (DPW-22 EC) <i>(if applicable)</i>	1 Page	Yes
Schedule for Imported Materials & Equipment (DPW-23 EC) <i>(if applicable)</i>	1 Page	Yes
EPWP Declaration: Fully Complete and sign EPWP Programme Declaration to ensure compliance	1	YES
Registration on National Treasury's Central Supplier Database (CSD).	-	Yes

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



**Tender / Quotation no: H24/025 AI**

**2. ADDITIONAL RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES**

**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	Number of pages issued	Returnable document
Any <u>additional</u> information required to complete a risk assessment ( <i>if applicable</i> )	-	Yes
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 JV's .		YES
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.		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]

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> )	1 Pages	Yes
Schedule for Imported Materials and Equipment (DPW-23 EC) ( <i>if applicable</i> )	1 Page	Yes

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

Tender / Quotation no: H24/025 AI

Tender document name	Number of pages issued	Returnable document
<i>insert document name</i>	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>insert document name</i>	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>insert document name</i>	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.  [including a profit company that meets the criteria for a private company, whose Memorandum of Incorporation states that the company is a personal liability company in terms of Section 8(2)(c) of the Companies Act, 2008 (Act 71 of 2008, as amended)].	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**

<b>Name of representative</b>	<b>Signature</b>	<b>Date</b>

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

<b>Project title:</b>	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)</b>		
<b>Tender / Quotation no:</b>	H24/025AI	<b>Reference no:</b>	H24/025AI

### OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

**KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)**

The Tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the Tenderer offers to perform all of the obligations and liabilities of the 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.

**THE TOTAL OFFER INCLUSIVE OF ALL APPLICABLE TAXES** ("All applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies) **IS:**

**Rand** (in figures) R .....

**Rand** (in words).....

.....

.....

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 firm and final offer**.

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.

**THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY:** (cross out block which is not applicable)

Company or Close Corporation: ..... ..... And: Whose Registration Number is: ..... And: Whose Income Tax Reference Number is: ..... CSD supplier number:.....	<b>OR</b>	Natural Person or Partnership: ..... ..... Whose Identity Number(s) is/are: ..... Whose Income Tax Reference Number is/are: ..... .. CSD supplier number:.....
--	-----------	--

\*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

Effective date 5 July 2022

Page 1 of 4  
Version 2022/4

**Tender / Quotation no: H24/025AI**

<b>AND WHO IS (if applicable):</b>	
Trading under the name and style of: .....	
<b>AND WHO IS:</b>	
Represented herein, and who is duly authorised to do so, by:  Mr/Mrs/Ms: ..... In his/her capacity as: .....	<b>Note:</b> <b>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.</b>

**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 contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract
- (b) 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 ☐

NB. 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 1998)] 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: H24/025 AI**

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 .....

CIDB 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: H24/025 AI**

<b>Name of Organisation:</b>	Department of Public Works and Infrastructure
<b>Address of Organisation:</b>	

**WITNESSED BY:**

Name of witness	Signature	Date

**Schedule of Deviations**

<b>1.1.1. Subject:</b>
<b>Detail:</b>
<b>1.1.2. Subject:</b>
<b>Detail:</b>
<b>1.1.3. Subject:</b>
<b>Detail:</b>
<b>1.1.4. Subject:</b>
<b>Detail:</b>
<b>1.1.5. Subject:</b>
<b>Detail:</b>
<b>1.1.6. Subject:</b>
<b>Detail:</b>

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

## 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 State institution

(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?

**YES / NO**

- 2.2.1 If so, furnish particulars:

.....  
.....

- 2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

**YES / NO**

- 2.3.1 If so, furnish particulars:

.....  
.....

### **3 DECLARATION**

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

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>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.

---

<sup>2</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.



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

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

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON 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:

- 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)

- \*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 / 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			

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: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (code)

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

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:**

- \* Delete which is not applicable.
- NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
- 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).
- 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).
- 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:

#### 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: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

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).



## 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 type="checkbox"/> 80/20	<input checked="" type="checkbox"/> 90/10
PRICE	80	90
SPECIFIC GOALS	20	10
Total points for Price and Specific Goals	100	100

## 1.5 Breakdown Allocation of Specific Goals Points



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

**Table 1**

Serial No	Specific Goals	Preference Points Allocated out of 20	Documentation to be submitted by bidders to validate their claim
1.	An EME or QSE which is at least 51% owned by black people (Mandatory)	10	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
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 (Mandatory)	2	<ul style="list-style-type: none"> <li>Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul>
3.	An EME or QSE which is at least 51% owned by black women (Mandatory)	4	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
4.	An EME or QSE which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>

			<p>and</p> <ul style="list-style-type: none"> <li>• Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).</li> </ul>
5.	An EME or QSE which is at least 51% owned by black youth (Mandatory)	2	<ul style="list-style-type: none"> <li>• ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>



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

**Table 2**

Serial No	Specific Goals	Preference Points Allocated out of 20	Documentation to be submitted by bidders to validate their claim
1.	An EME or QSE or any entity which is at least 51% owned by black people (Mandatory)	10	<ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
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 (Mandatory)	2	<ul style="list-style-type: none"> <li>• Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p>

			<ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul>
3.	An EME or QSE or any entity which is at least 51% owned by black women (Mandatory)	4	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>
4.	An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <p>National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).</p>



		owned by black women (mandatory)		
	4. <input type="checkbox"/>	An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory)	2	<ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <p>National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).</p>
	<b>OR</b>			
	5. <input checked="" type="checkbox"/>	An EME or QSE or any entity which is at least 51% owned by black youth (Mandatory)	2	<ul style="list-style-type: none"> <li>ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable</li> </ul>

**Black people** mean Africans, Coloureds and Indians, who - (a) are citizens of the Republic of South Africa by birth or descent; or (b) became citizens of the Republic of South Africa by naturalisation - (i) before 27 April 1994; or (ii) on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalisation prior to that date. (BROAD-BASED BLACK ECONOMIC EMPOWERMENT ACT No 25899, 2003 of 9 JANUARY 2004).

- 1.6 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.
- 1.7 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.

## 2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations,

competitive tendering process or any other method envisaged in legislation;

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

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

#### 3.1. POINTS AWARDED FOR PRICE

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

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

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

##### 3.2.1. POINTS AWARDED FOR PRICE

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

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

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
1. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black people	4	10		
2. Located in a specific Local Municipality or District Municipality or Metro or	2	2		



The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Province area for work to be done or services to be rendered in that area				
3. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black women	2	4		
4. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black people with disability	2	2		
5. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black youth.*	2	2		

#### DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

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

State Owned Company  
[TICK APPLICABLE BOX]

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

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

**(Gazette Vol. 630 No. 41287)**  
Issued in terms of paragraph 3.6.2.4.1 (B)

I, the undersigned,

<b>Full name &amp; Surname</b>	
<b>Identity number</b>	

Hereby declare under oath as follows:

- 1) The contents of this statement are to the best of my knowledge a true reflection of the facts.
- 2) I am a Member ☐ / Director ☐ / Owner ☐ **(Select one)** of the following enterprise and am duly authorised to act on its behalf:

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

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

Effective date: 21 July 2023

- 4) Based on the ☐ Financial Statements or ☐ Management Accounts and other information available on the latest financial year-end of \_\_\_\_/\_\_\_\_/\_\_\_\_, (format: day/month/year) the annual Total Revenue was less than the applicable amount confirmed by ticking the applicable box below (Select applicable).

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

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

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

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

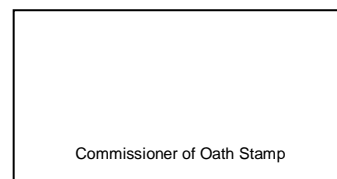
- 5) I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.

- 6) The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

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

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

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



PA-16.1 (EC)

## PA-16.1 (EC): OWNERSHIP PARTICULARS

**NB:** 1. This form is to be read with the Broad-based Black Economic Empowerment Act, 2003 (Act 53 of 2003), the Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000), the Preferential Procurement Regulations, 2011, the Notice and Invitation to Tender and the Tender Data pertaining to this Tender, and completed according to the definitions and information contained in said documents.

2. Failure to complete this form may result in the tender being disqualified.

<b>Project title:</b>	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</b>
<b>Tender no:</b>	<b>H24/025 AI</b>

### 1. PARTICULARS OF TENDERER

**Name of Tendering Entity (the Tenderer):**

.....  
(must correspond with the Form of Offer and Acceptance DPW-07 (EC) in Section C1.1)

<b>Physical Address:</b> ..... ..... .....	<b>Postal Address:</b> ..... ..... .....
<b>Company/CC Registration No:</b> .....	<b>Tenderer's Income Tax Reference No:</b> .....
<b>Company VAT Registration No:</b> .....	

**Name of the duly authorized Representative of the Tenderer:** .....

(must correspond with the Resolution PA-15.1, PA-15.2 and/or PA-15.3)

<b>Telephone:</b> .....	<b>Facsimile:</b> .....
Is the Tenderer a <input type="checkbox"/> public* or <input type="checkbox"/> private company?	

(\*Preference points may not be awarded to public companies)

**2. LIST ALL PROPRIETORS, MEMBERS OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP, PRE 1994 ELECTION FRANCHISE-STATUS AND OWNERSHIP, AS RELEVANT**

Name #	Identity/Registration Number	Citizenship ##	HDI-Status ###	Date of Ownership	Percentage Owned	Percentage Voting	Percentage of time devoted to the Tendering Entity
			Qualify as HDI by virtue of not having had any franchise in elections prior to 1983 or 1994				
1.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
2.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
3.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
4.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
5.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
6.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
7.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
8.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
9.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
10.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
11.			<input type="checkbox"/> Yes <input type="checkbox"/> No				
12.			<input type="checkbox"/> Yes <input type="checkbox"/> No				

# 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 African citizenship obtained

### state "Yes" or "No" (refer to definitions contained in the PPPF Act, 2000 (Act 5 of 2000) and the Preferential Procurement Regulations, 2011)

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".

For Internal & External Use

Effective date January 2012

Page 2 of 6

Version: 2.0

**3 The following documentation must be included in the tender as part of the Returnable Documents. Failure to provide the said documentation may result in the tender being disqualified.**

<b>Legal Status of Tendering Entity: If the Tendering Entity is:</b>	<b>Documentation to be submitted with the tender:</b>
a. A Close Corporation, incorporated under the Close Corporation Act, 1984 (Act 69 of 1984)	Certified copies of the Founding Statement – CK1
b. A private Company having share capital, incorporated under the Companies Act, 1973 (Act 61 of 1973) [including Companies incorporated under Art 53(b)]	Certified copies of: i. Certificate of Incorporation – CM1, and ii. Shareholders Certificates of all Members of the Company, plus a signed statement of the Company's Auditor, certifying each Member's ownership /shareholding percentage relative to the total.
c. A private Company having share capital, incorporated under the Companies Act, 1973 (Act 61 of 1973) in which any, or all, shares are held by another Close Corporation or Company with or without share capital	Certified 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 public Company having share capital, incorporated under the Companies Act, 1973 (Act 61 of 1973) [including Companies incorporated under Art 21]	A signed statement of the Company's Secretary confirming that the Company is a public Company.
e. A natural person or a Partnership	Certified copy of the Identity Document of: i. such natural person, or ii. each of the Partners to the Partnership.
f. A Trust	Deed of Trust.

**4. Identify by name, HDI-status and length of service, those individuals (including Owners and non-Owners) responsible for the day-to-day management and business decisions:**

	Name	HDI-status ###			Length of service (years)
		Qualify as HDI by virtue of not having had any franchise in elections prior to 1983 or 1994	Qualify as HDI by virtue of being female	Qualify as HDI by virtue of having a disability	
<b><u>FINANCIAL DECISIONS</u></b>					
Cheque signing Signing & Co-signing for loans		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Acquisition of lines of credit		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Sureties		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Major purchase or acquisitions		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Signing contracts		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
<b><u>MANAGEMENT DECISIONS</u></b>					
Estimating		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Market and sales operations		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Hiring and firing of management personnel		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Supervision of office personnel		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Supervision of Field / Production activities		<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

### state "Yes" or "No" (refer to definitions contained in the PPPF Act, 2000 (Act 5 of 2000) and the Preferential Procurement Regulations, 2011)

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".

For Internal & External Use

Effective date January 2012



**5. If this tender offer is submitted by a Consortium or Joint Venture, provide the following information regarding the Participation Parameter of each of the Tendering entities relative to the project tendering for:**

Name of Consortium / Joint Venture Partner	Participation Parameter expressed as a percentage
1.	.....%
2.	.....%
3.	.....%
4.	.....%
5.	.....%

NB: If submitting a tender offer in Consortium or Joint Venture, a copy of the proposed Consortium or Joint Venture Agreement must be submitted together with the Offer for scrutiny purposes during the Evaluation stage. All other requirements for deliverable documents pertaining to Consortium / Joint Ventures, as described in the Tender Data, must, in addition hereto, be adhered to. Information required in Sections 1 to 5 of this form must be provided separately in respect of each Consortium or Joint Venture Partner.

**6. List the following personnel or external firms who provide the following services:**

Service	Name	Contact Person	Telephone
Accounting			
Legal			
Auditing			
Banking			
Insurance			

**7. DECLARATION:**

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

- 7.1 The information and particulars contained in this Affidavit are true and correct in all respects;
- 7.2 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, 2011, and all documents 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;
- 7.3 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 herein;
- 7.4 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 a less favourable tender as a result of any such disqualification due to misrepresentation or fraudulent information provided herein;
- 7.5 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 be set by the latter;
- 7.6 The Tenderer understands that, once the tender herein has been awarded and it is later detected by the Employer that a preference relating to Ownership in terms of the Act and Regulations has been intentionally misrepresented or fraudulently claimed, the Employer will have recourse against such party as stipulated in Regulation 15 of the Preferential Procurement Regulations, 2011 and/or to impose a penalty amount equal to Y%, of the Offered Total of Prices (inclusive of Value Added Tax), tendered in the Form of Offer and Acceptance (section C1.1), calculated separately for each Ownership category misrepresented or fraudulently claimed; where Y is the maximum number of points allocated for each individual Ownership description provided in the Notice and Invitation to Tender (PA-04 EC), to a combined maximum of 10%. Furthermore: failure to achieve the tendered Contract Participation Goal will be penalized by a penalty amount as described in the Tender and Contract Conditions Pertaining to Contract Participation Goal (Participation of Targeted Enterprises) (PA-16.2 EC).

**Signed by the Tenderer**

<b>Name of representative</b>	<b>Signature</b>	<b>Date</b>

## PA- 40: DECLARATION OF DESIGNATED GROUPS

Tender no: **H24/025AI**

Name of Tenderer .....

☐ EME<sup>1</sup> ☐ QSE<sup>2</sup> ☐ Non EME/QSE (tick applicable box)

**1. LIST ALL PROPRIETORS, MEMBERS OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP AND DESIGNATED GROUPS.**

Name and Surname #	Identity/ Passport number and Citizenship##	Percentage owned	Black	Indicate if youth	Indicate if woman	Indicate if person with disability	Indicate if living in Rural (R) / Under Developed Area (UD) / Township (T) / Urban (U).	Indicate if military veteran
1.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
2.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
3.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
4.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
5.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
7.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
8.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
9.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
10.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
11.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No
12.		%	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U	<input type="checkbox"/> Yes <input type="checkbox"/> No

# 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 African citizenship obtained (not applicable to persons born in South Africa)

<sup>1</sup> EME: Exempted Micro Enterprise

<sup>2</sup> QSE: Qualifying Small Business Enterprise

## PA- 40: DECLARATION OF DESIGNATED GROUPS

Tender no: **H24/025A1**

### 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), National Small Business Act 102 of 1996 as amended and all documents 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 herein;
- 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 a less favourable tender as a result of any such disqualification due to misrepresentation or fraudulent information provided 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 be set by the latter;

Signed by the Tenderer

<b>Name of representative</b>	<b>Signature</b>	<b>Date</b>

**BIDDERS TO PROVIDE EVIDENCE OF INSTRUMENTATIONS, HAND TOOLS, MACHINERY, CLEANING EQUIPMENTS AND UTILITY VEHICLES OWNED OR TO BE HIRED/RENTED IN ORDER TO CARRY OUT THE PROJECT**

**NOTE 1: FAILURE TO COMPLETE AND SUBMIT THIS FORM WILL RESULT BIDDERS NOT TO BE SCORED FOR FUNCTIONALITY CRITERIA NO. 9.3**

**NOTE 2: BIDDERS ARE NOT ALLOWED TO REPLICATE THIS ANNEXURE A**

**NOTE 3: IF ITEMS MARKED OWNED/RENTED ON ANNEXURE A, PROOF MUST BE PROVIDED**

---

**Project**                      **KOPFONTEIN, SWARTKOPFONTEIN AND DERDERPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS**

DESCRIPTION	QUANTITY	OWNED	OUTSOURCED
<b>Instrumentation for testing of drinking water</b>			
Bench top potentiometer, accurate and precise to at least 0,1 pH unit, including reference electrode and glass sensor or combination electrode;	3		
Electrical conducting meter, with error not exceeding 1 % or 0,1 m S/m;	3		
Thermometer covering the range 23 °C < T < 27 °C accurate and capable of being read to the nearest 0,1 °C;	3		
Magnetic stirrer with PTFE (Teflon) stirring bars;	3		
3 x 1 000 millilitre Imhoff cones with wooden rack;	3		
5 x 1 000 millilitre glass bottles with ground stopper;	3		
Turbidity meter	3		

DESCRIPTION	QUANTITY	OWNED	OUTSOURCED
<b>Cleaning Equipment</b>			
Industrial hoover vacuum cleaner	6		
Numatic rotary disk floor scrubber/polisher	6		
Mega mobs (to be continuous supplied and to be sufficient for the duration of the contract period)	30		
Double mopping buckets and wringer 50 litre (to be continuously supplied and to be sufficient for the duration of the contract period)	9		
Platform Broom (to be continuously supplied and to be sufficient for the duration of the contract period)	15		
Multi-purpose cleaner / All-purpose cleaner concentrate or SABS approved General Purpose cleaner to be supplied in 25 litres (to be continuously supplied and to be sufficient for the duration of the contract period)	50		
<b>Utility Vehicles</b>			
4x4 LDV's	3		
2500l Fuel Trailer	1		
<b>Machinery</b>			
Plate Compacter	1		
Poker drive unit	2		
Concrete Mixer	2		

<b>Hand tools</b>			
Wheel barrows	4		
Tool boxes with hammers, Pliers, Screwdrivers, spanners etc.	5		
Step ladders	4		
Grass cutting machines	15		
Chainsaw machines for cutting and trimming trees	3		

<b>NAME OF REPRESENTATIVE:</b>  .....	<b>SIGNATURE:</b>  .....	<b>DATE:</b>  .....
---	--------------------------------	---------------------------

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

Project title:	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)</b>		
Tender / quotation no:	H24/025AI	Closing date:	23 September 2024
Advertising date:	26 August 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						



## 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

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

<b>Project title:</b>	<b><i>Kopfontein, Swartkopfontein and Derdepoort Land Ports of Entry: 36 Months Infrastructure Maintenance and Repairs of Buildings, Civil, Mechanical, Electrical, and Installations (Appointment of Contractor)</i></b>		
<b>Tender no:</b>	<i>H24/025A/I</i>	<b>Reference no:</b>	<i>H24/025A/I</i>

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.

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

<b>Name of representative</b>	<b>Signature</b>	<b>Capacity</b>	<b>Date</b>

<b>Name of organisation:</b>	
------------------------------	--

## DPW-16 (EC): SITE INSPECTION MEETING CERTIFICATE

<b>Project title:</b>	<b><i>Kopfontein, Swartkopfontein and Derdepoort Land Ports of Entry: 36 Months Infrastructure Maintenance and Repairs of Buildings, Civil, Mechanical, Electrical, and Installations (Appointment of Contractor)</i></b>		
<b>Tender / Quotation no:</b>	<i>H24/025AI</i>	<b>Reference no:</b>	<i>H24/025AI</i>
<b>Closing date:</b>	<i>23 SEPTEMBER 2024</i>		

This is to certify that I, \_\_\_\_\_ representing

\_\_\_\_\_ in the capacity of

\_\_\_\_\_ visited the site on:

I have made myself familiar with all local conditions likely to influence the work and the cost thereof. I further certify that I am satisfied with the description of the work and explanations given at the site inspection meeting and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

Name of Tenderer	Signature	Date

Name of DPW Representative	Signature	Date

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

<b>Project title:</b>	KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)		
<b>Tender no:</b>	H24/025 AI	<b>Reference no:</b>	H24/025 AI

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.		

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-22 (EC): PARTICULARS OF ELECTRICAL CONTRACTOR

<b>Project title:</b>	KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)		
<b>Tender no:</b>	H24/025 AI	<b>Reference no:</b>	H24/025 AI

<b>Name of Electrical Contractor:</b>	
<b>Address:</b>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
<b>Electrical Contractor registration number at the Department of Labour</b>	<hr/>

Name of Tenderer	Signature	Date

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

<b>Project title:</b>	KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)		
<b>Tender no:</b>	H24/025 AI	<b>Reference no:</b>	H24/025 AI

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

Provide additional list if space provided is insufficient.

**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



public works  
& infrastructure

Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

## DECLARATION – EPWP PROGRAMME

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

Hereby Undertake To Comply To:

### 1. LABOUR INTENSIVE CONTRUCTION METHODS (LIC)

- 1.1. Comply To Implementation Of LIC B.O.Q 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 \_\_\_\_ (\_\_\_\_) Participants  
2.2. Comply To EPWP B.O.Q, Specifications And Code Of Good Practice

### 3. RECRUITMENT AND PLACEMENT OF LOCAL LABOURERS

- 3.1. Recruitment And Placement Of 60 (Sixty) 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 Participants Attendance Registers  
4.4. All Employees and EPWP Participants Proof of Payment  
4.5. EPWP Reports Populated on Standard Templates

### 5. PENALTY FOR NON COMPLIANCE

Acknowledge Non Compliance Penalty of R 3000.00 (Three Thousands Rand) Per Month Per Participants

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

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

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

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **THE CONTRACT**



KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **PART C1 AGREEMENT AND CONTRACT DATA**

## DPW-05: (EC) CONTRACT DATA - GCC 2015: 3<sup>RD</sup> EDITION

<b>Project title:</b>	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)</b>				
<b>Tender no:</b>	H24/025AI	<b>WCS no:</b>	056389	<b>Reference no:</b>	H24/025AI

	<p>The Conditions of Contract applicable to this Contract are clauses 1 to 10 and contract price adjustment schedule of the General Conditions of Contract for Construction Works, Third Edition (2015) prepared by The South African Institution of Civil Engineering Private Bag X200, Halfway House, 1685.</p> <p><b>Contractors are cautioned to read the GCC Third Edition (2015) and Contract Data [DPW-05 (EC)] together as some clauses in the GCC Third Edition (2015) have been amended in the Contract Data [DPW-05 (EC)]</b></p> <p><b>Specific data, which together with these General Conditions of Contract, collectively describe the risks, liabilities and obligations of the contracting Parties and the procedures for the administration of the Contract. Clauses as amended in the Contract Data amends or replaces the corresponding clauses in the GCC Third Edition (2015).</b></p> <p>Copies of these conditions of contract may be obtained through <a href="http://www.saice.org.za">www.saice.org.za</a>.</p>
--	--

	<p><b>CONTRACT VARIABLES</b></p> <p><b>THE SCHEDULE ( Contract Data [1.1.1.8])</b></p> <p>The <b>schedule</b> is the listed variables in this agreement and contains all variables referred to in this document including specific changes made to <b>GCC Third Edition (2015)</b> documentation. It is divided into part 1: contract data completed by the <b>employer</b> and part 2: contract data completed by the <b>contractor</b>. Part 1 must be completed in full and included in the tender documents. Both the part 1 and part 2 form part of this <b>agreement</b></p> <p><b>Spaces requiring information must be filled in, shown as ‘not applicable’ but not left blank.</b> Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the <b>schedule</b>. Key cross reference clauses are italicised in <i>[ ]</i> brackets</p>
--	---

### PART 1: CONTRACT DATA COMPLETED BY THE EMPLOYER:

#### A PROJECT INFORMATION

##### A 1.0 Works [1.1.1.35]

Works description	Refer to document <b>PG01.1 (EC) – Scope of Works</b> for detailed description
KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)	

**Tender / Quotation no: H24/025AI**

## **A 2.0 Site [1.1.1.29]**

Erf / stand number	1 of Kopfontein 78 KP.
Site address	Kopfontein, Swartkopfontein and Derdepoort Land Ports of Entry
Township / Suburb	N/A
City / Town	Zeerust
Province	North West
Local authority	Zeerust
GPS Coordinates	Kopfontein LPoE. (GPS Co-ordinate: 24°42'15.12"S 26° 5'27.56"E). Swartkopfontein LPoE (GPS Co-ordinates: 24°52'26.12"S 25°53'9.14"E) Derdepoort LPoE (GPS Co-ordinate are: 24°38'34.06"S 26°24'13.14"E).

## **A 3.0 EMPLOYER AND ITS REPRESENTATIVE**

### **A 3.1 Employer:**

Official Name of Organ of State / Public Sector Body	Government of the Republic of South Africa in its Department of Public Works & Infrastructure		
Business registration number	Not applicable	VAT number	Not applicable
E-mail	Hazel.Ratombo@dpw.gov.za	Telephone	012 406 1519
Postal address	PRIVATE BAG X65 PRETORIA 0001		
Physical address	256 Madiba Street Pretoria Central Pretorial 0001		

### **A 3.2 Employer's Representative:**

Name	Hazel Ratombo	Telephone number	012 406 1519
E-mail	Hazel.Ratombo@dpw.gov.za	Mobile number	081 035 0257
Postal address	PRIVATE BAG X65 PRETORIA 0001		
Physical address	256 Madiba Street Pretoria Central Pretorial 0001		

**Tender / Quotation no: H24/025AI**

<b>A 4.0</b>	<b>Employers Agent/s</b>		
<b>A 4.1</b>	<b>Principal Agent [1.1.1.16]</b>	<b>Discipline</b>	Multi-Disciplinary Consultant (Civil, Electrical, Mechanical Engineering)

Name	Prociv-KNA JV		
Legal entity of above	Prociv-KNA JV	Contact person	Mr. Antony Marunga
Practice number	N/A	Telephone number	
Country	South Africa	Mobile number	0833814286
E-mail	amarunga@prociv.co.za		
Postal address	N/A		
Physical address	Unit 6, CMA Office and Conference Park No.1 2 <sup>nd</sup> Road, Halfway House Estate Midrand 1685		

<b>A 4.2</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

<b>A 4.3</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

## Tender / Quotation no: H24/025AI

<b>A 4.4</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

<b>A 4.5</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

<b>A 4.6</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

**Tender / Quotation no: H24/025AI**

<b>A 4.7</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

<b>A 4.8</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

<b>A 4.9</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
--------------	-------------------------	-------------------	--

Name			
Legal entity of above		Contact person	
Practice number		Telephone number	
Country		Mobile number	
E-mail			
Postal address	insert postal address insert suburb insert town insert postal code		
Physical address	insert physical address insert suburb insert town insert postal code		

**Tender / Quotation no: H24/025AI**

**B CONTRACT INFORMATION**

**B 1.0 Definitions [1.1.1.2]**

Bills of quantities: System / Method of measurement	SANS 1200
---	-----------

**B 2.0 Law, regulations and notices [1.3.2]**

Law applicable to the works [1.3.2]	Law of the Republic of South Africa
-------------------------------------	-------------------------------------

**B 3.0 Offer and acceptance [1.1.1.20]**

Currency applicable to this agreement [1.1.1.20]	South African Rand
--	--------------------

**B 4.0 Documents [1.1.1.7]**

The original signed agreement is to be held by the principal agent [1.1.1.7], if not, indicate by whom	Employer
Number of copies of construction information issued to the contractor at no cost. (3 Copies of all relevant construction documentation – this to includes 1 priced Bills of Quantities and 2 unpriced Bills of Quantities)	3

Documents comprising the agreement	Page numbers
GCC GENERAL CONDITIONS OF CONTRACT FOR CONSTRUCTION WORKS, THIRD EDITION (2015)	
DPW-05: (EC): GCC 2015: 3RD EDITION	<b>30</b>
The GCC General Preliminaries for use with the GCC 2015: 3RD EDITION	
Contract participation goal documentation as further defined in clause 1.1.1.37 [CD] and B16 [CD]	
Drawings as per drawing register issued with the tender	
Specifications issued with the tender	
Schedules issued with the tender	
Bills of Quantities issued with the tender	
Addenda as issued during tender stage, if applicable	As issued

**Tender / Quotation no: H24/025AI**

**B 5.0 Employer's agents [3.0]**

**Authority is delegated to the following agents to issue contract instructions and perform duties for specific aspects of the works [3.0] [3.2.3 [CD] ]**

**Principal Agent**  
**Antony Marunga**

**Principal agent's and agents' interest or involvement in the works other than a professional interest**

**B 6.0 Insurances [8.6]**

**Insurances by contractor**

NB: Insurances 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 53 of 1998)] or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990).  
**Insured amounts to include VAT.**

	The Contract Price [8.6.1.1.1] New Works With a deductible not exceeding 5% of each and every claim [8.6.2]	Contract sum plus 10%	Select
Or	The Contract Price [8.6.1.1.1] Works with alterations and additions (reinstatement value of existing structures / works without or including new works) with a deductible not exceeding 5% of each and every claim [8.6.2]	Contract sum plus 10%	Select
Or	The Contract Price [8.6.1.1.1] Works with practical completion in sections with a deductible not exceeding 5% of each and every claim [8.6.2]	Contract sum plus 10%	Select
	Plant and materials supplied by the Employer [8.6.1.1.2]	R (Eng / PQS to determine value)	Select
	Professional fees not included in the Contract Price, payable in respect of the repair or reinstatement of damage to the Works or said movables, plus Escalation thereon (if not included above). Minimum R1m unless other amount indicated. [8.6.1.1.3]	R (Eng / PQS to determine value)	Select
	Direct contractors [8.6.1.1.2] where applicable, to be included in the contract works insurance	R (Eng / PQS to determine value)	Select
	Special Risks Insurance issued by Sasria [8.6.1.2]	R (Eng / PQS to determine value)	Select



**Tender / Quotation no: H24/025A/**

Public liability insurance [8.6.1.3]	R 5 000 000	Applicable
Ground support insurance [8.6.1.4]	R (Eng / PQS to determine value)	Select
Subcontractors insurance [8.6.3] where applicable, if not included in works insurance nor by sub-Contractors	R (Eng / PQS to determine value)	Select
<b>Other insurances [8.6.1.5]</b>		
Free issue where applicable, to be included in the contract works insurance	R (Eng / PQS to determine value)	Select
Hi Risk Insurance when the project is being executed in a geological area classified as a "High Risk Area" [8.6.8[CD]]	R (Eng / PQS to determine value)	Select
Other insurances: If applicable, description 1:	R (Eng / PQS to determine value)	Select
Other insurances; If applicable, description 2:	R (Eng / PQS to determine value)	Select

**B 7.0 Obligations of the employer**

Existing premises will be in use and occupied [5.4.1 & 5.4.2]	Applicable
If applicable, description: The project will be on a live site	
Restriction of working hours [5.8]	Applicable
If applicable, description: As per the operating hours of the border posts	
Natural features and known services to be preserved by the contractor [4.7]	Not Applicable
If applicable, description:	
Restrictions to the site or areas that the contractor may not occupy [5.4.1 & 5.4.2]	Not Applicable
If applicable, description:	

## Tender / Quotation no: H24/025AI

Supply of free issue of material and goods [8.6.1.1.2]	Amount	R	Not Applicable
If applicable, description:			

### B 8.0 Subcontractors [4.4]

Not Applicable	If applicable, description of specialisation
Specialisation 1	
Specialisation 2	
Specialisation 3	
Specialisation 4	
Specialisation 5	

### B 9.0 Description of different portions of the works, if applicable [5.14.7, B10.3 [CD]]

Not Applicable	If applicable, description of sections
Section 1	
Section 2	
Section 3	
Section 4	
Section 5	
Section 6	
Remainder of the works.	

### B 10.0 Contract period [B18: 1.2], Construction period [B18: 1.1], Possession of site [5.4.1], Practical Completion [1.1.1.14, 5.14.1], Completion (Final Approval Certificate) [5.16.1] and Penalties [5.13]

#### B 10.1 Contract Period

**Contract period:** Period in **months** as indicated, include the time from the date of award (commencement date [5.2.1]) for submitting contractual obligatory documents, submission of Health & Safety Plan and approval, period for obtaining the Construction Permit (if applicable), the Construction Period and the Defect Liability Period up to and including Final Completion

## Tender / Quotation no: H24/025AI

<b>The contract period is determined as follows (Period/s indicated in months):</b>	
Period to submit contractual obligatory documents including submission and approval of health and safety plan by the appointed Health & Safety Agent	1
Period to obtain Construction Permit from Department of Labour upon approval of the Health & Safety Plan by the appointed Health & Safety Agent	1
Total construction period for the Works as a whole from date of Access to and Possession of the Site up to and including <b>Practical Completion</b> , as indicated below [1.1.1.14, 5.4.1, 5.14.1]	36
Period to achieve <b>Completion</b> [5.14.4]	-
Defect liability period up to and including issuing Final Approval Certificate in months [5.16.1]	12
<b>Total Contract Period</b>	50

### B10.2 Construction Period for completion of the Works as a whole

<b>Construction period</b> [B18: 1.2] and <b>Practical Completion for the Works as a whole</b> [5.14.1] The time for achieving Practical Completion of the whole of the Works is <b>measured from the</b> date of Access to and Possession of the <b>site</b> (5.4.1) by the <b>contractor</b> inclusive of all <b>public holidays, special non-working days and builders' holiday shut down periods</b> .	Not Applicable
The date for practical completion for the works as a whole shall be the period in <b>months</b> as indicated, starting from the date of Access to and Possession of the site by the contractor inclusive of all special non-working days and builders' holiday shut down periods [1.1.1.14, 5.4.1, 5.14.1]	
Notification period for inspection in <b>working days</b> by the principal agent.	
<b>Penalty amount</b> per calendar day for late submission of contractual obligatory documents: Ten percent (10%) of the penalty amount per calendar day for late Practical Completion, excluding VAT. [5.13]	R
<b>Penalty amount</b> per calendar day for <b>late Practical Completion</b> , excluding VAT. [5.13].	R
<b>Penalty amount</b> per calendar day for <b>late Completion</b> [5.14.4, 5.13]: Thirty percent (30%) of penalty amount per calendar day for late Practical Completion, excluding VAT.	R
<b>Penalty amount</b> per calendar day for <b>late Final Completion</b> (Issuing of Final Approval Certificate) [5.16, 5.13]: Fifteen percent (15%) of penalty amount per calendar day for late Practical Completion, excluding VAT.	R

Tender / Quotation no: H24/025AI

### B10.3 Construction Period for completion of the Works in portions

Construction period and Practical completion for portions of the Works [5.14.7]		Applicable
Portions of the Works in sections:	1 Repair Phase	2 Maintenance Phase
Notification period for inspection by the principal agent in <b>working days</b> .	2	2
The date for practical completion shall be the period in <b>months</b> as indicated from the date of access and possession of the site by the contractor [1.1.1.14, 5.4.1, 5.14.1]	12	36
The date for practical completion for <b>the whole</b> of the Works, if applicable shall be the period in <b>months</b> as indicated from the date of Access to and Possession of the Site by the contractor inclusive of all <b>public holidays, special non-working days and builders' holiday shut down periods</b> [5.4.1, 12.2.7; 24.1]		36
Penalty for late Practical Completion, <b>if completion in sections is required</b> , excluding VAT [5.13]		
The penalty amount per day for failing to complete <b>Repair Phase</b> of the Works is:		R 1000.00
The penalty amount per day for failing to complete <b>Maintenance Phase</b> of the Works is:		R 500.00
The penalty amount per day for failing to complete <b>section 3</b> of the Works is:		R N/A
The penalty amount per day for failing to complete <b>section 4</b> of the Works is:		R N/A
The penalty amount per day for failing to complete <b>section 5</b> of the Works is:		R N/A
The penalty amount per day for failing to complete <b>section 6</b> of the Works is:		R N/A
The penalty amount per day for failing to complete <b>the whole</b> of the Works, if applicable, is:		R 1500.00
<b>Penalty amount</b> per calendar day for late submission of contractual obligatory documents: To be calculated at Ten percent (10%) of penalty / calendar day to complete the whole of the Works as indicated above, excluding VAT.		
Penalty amount per calendar day for <b>late Completion</b> [5.14.4, 5.13]: To be calculated at Thirty percent (30%) of penalty / calendar day to complete <b>the whole of the Works</b> , excluding VAT		
Penalty amount per calendar day for <b>late Final Completion</b> (Issuing of Final Approval Certificate) [5.16, 5.13]: To be calculated at Fifteen percent (15%) of penalty / calendar day to complete <b>the whole of the Works</b> , excluding VAT		

### B 11.0 Criteria to achieve Practical Completion [1.1.1.14, 5.14.1]

Criteria to achieve Practical Completion not covered in the definition of practical completion	
13.1	Obtain Occupation Certificate from the relevant authority prior to issuing the Practical Completion certificate
13.2	All relevant CoCs
13.3	All guarantees

**Tender / Quotation no: H24/025 AI**

13.4	Training on electrical, security and mechanical installations if contractually required
13.5	Maintenance / operating manuals
13.6	CPG and cidb BUILD programme achievement certificates submitted with substantiating documentation
13.7	
13.8	
13.9	
13.10	

**B 12.0 Defects liability period [5.16]**

Defects liability period: Refer B10.1

Applicable	If applicable, description of applicable elements
14.1	All Civil and Structural Engineering Work (Repair and Maintenance)
14.2	All Electrical Engineering Work (Repair and Maintenance)
14.3	All Mechanical Engineering Work (Repair and Maintenance)
14.4	
14.5	
14.6	
14.7	
14.8	
14.9	
14.10	

**Tender / Quotation no: H24/025AI**

**B 13.0 Payment [6.10]**

Date of month for issue of regular payment certificates Refer [6.10.1]	25
Contract price adjustment / cost fluctuations [6.8.2]	Applicable
If yes, method to calculate [6.8.2 [CD]]	Contract price adjustment factor
Employer shall pay the contractor within: Refer [6.10.4 [CD]]	Thirty (30) calendar days

**B 14.0 Dispute resolution [10.5 [CD]]**

<b>Mediation</b>	YES
Name of nominating body	Association of Arbitrators (Southern Africa)
Appointment of Mediator	State Attorney
<b>Litigation</b>	Court with Jurisdiction

Tender / Quotation no: H24/025AI

## B 15.0 SPECIFIC CHANGES MADE TO GCC 2015: 3<sup>RD</sup> EDITION

CONTRACT SPECIFIC DATA	
The following contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition (2015) are applicable to this Contract:	
CLAUSES	COMPULSORY DATA
1.1.1.8	Amend Clause 1.1.1.8 to include the word “rights” to read as follows:  “Contract Data” means the specific data which, together with these General Conditions of Contract, collectively describe the rights, risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract.
1.1.1.9	Add to Clause 1.1.1.9 the following:  “If the Contractor constitutes under the Law of the Republic of South Africa (B2.0) a joint venture, consortium or other unincorporated grouping of two or more persons:  (a) these persons shall be deemed to be jointly and severally liable to the Employer for the performance of the Contract;  (b) these persons shall notify the Employer of their leader who shall have authority to bind the Contractor and each of these persons; and  (c) the Contractor shall not alter its composition or legal status without the prior consent of the Employer.”
1.1.1.13	Amend Clause 1.1.1.13 as follows:  “Defects Liability Period” means the period stated in the Contract Data, commencing on the date indicated on the Certificate of Completion for the works as a whole or Certificates of Completion in the event of more than one Certificate of Completion is issued for different parts of the Works, during which the Contractor has both the right and the obligation to make good defects in the materials, Plant and workmanship covered by the Contract.  Defects Liability Period is: <b>12 months</b> .  The Defects Liability Period for the works shall commence on the calendar day following the date of the Certificate of Completion for the works as a whole or Certificates of Completion in the event of more than one Certificate of Completion is issued for different parts of the Works and end at midnight (00:00) three hundred and sixty five days (365) calendar days from the date of the Certificate of Completion.
1.1.1.14	Amend Clause 1.1.1.14 as follows:  “Due Completion Date” means the date of expiry of the time stated in the Contract Data for achieving Practical Completion of the Works, calculated from the date of Access to and Possession of Site date (5.4.1) and as adjusted by such extensions of time or acceleration as may be allowed in terms of Contract (5.12).
1.1.1.15	The name of the Employer: Refer to A 3.1 [CD]
1.1.1.16	The name of the Employer’s Representative: Refer to A 3.2 [CD]
1.1.1.17	The name of the Employer’s Agent: Refer to A 4.0 and B 5.0 [CD]

**Tender / Quotation no: H24/025AI**

1.1.1.20	Amend Clause 1.1.1.20 by inserting the following words at the end of this definition: "If the Acceptance section of the Form of Offer and Acceptance" contains conditional statements or a schedule of deviations is attached to the Form of Offer and Acceptance, then Form of Offer and Acceptance means the Contract Agreement, that shall be substantially in accordance with the form attached to the Scope of Works, and the date of signing the Contract Agreement shall be the date of the Form of Offer and Acceptance"
1.1.1.21.A	<b>Add new Clause 1.1.1.21.A</b>  The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) 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.
1.1.1.27	This Pricing Strategy is a: <b>Re-measurement Contract.</b>
1.1.1.31	Not applicable to this Contract.
1.1.1.35	Insert the definition of "Value of Works" as Clause 1.1.1.35:  "Value of Works" means the value of the Works certified by the Employer's Agent as having been satisfactorily executed and shall include the value of the works done, the value of the materials and/or plant and Contract Price Adjustments.
1.1.1.36	Insert the definition of "Latent and Patent Defects" as Clause 1.1.1.36:  A 'latent defect' is a material defect, which was not visible after 'reasonable' inspection. The latent defect period commences at the date of Final Approval Certificate and ends 5 years [after that date [5.16.3].  A patent defect is a flaw that is not hidden and ought to be easily identified upon reasonable inspection.
1.1.1.37	<b>Add new Clause 1.1.1.37</b>  Contract participation goals applicable to this Contract are as indicated in B16 [D] and described in the following tender documents: DPW 03 (EC): TENDER DATA, PG 01.1 (EC) SCOPE OF WORK and PG 02.1 (EC) PRICING ASSUMPTIONS.
1.2.3.	Replace Clause 1.2.3. with the following:  The Employer's Agent is as indicated in clause B 5.0 and shall have the authority to act on behalf of the employer as indicated in the contract document read with the contract data. [3.2.3].
1.2.6	<b>Add new Clause 1.2.6</b>  The priority of the documents shall be in accordance with the following sequence:  (a) The Form of Offer and Acceptance and the signed Schedule of Deviations, (b) Contract Data, (c) These General Conditions of Contract, (e) Scope of Work, and (f) Pricing Data
1.3.4	Not applicable to this Contract.



**Tender / Quotation no: H24/025AI**

1.3.5	<p>Replace Clause 1.3.5 with the following:</p> <ul style="list-style-type: none"> <li>(a) The Employer will become the owner of the information, documents, advice, recommendation and reports collected, furnished and/or compiled by the Contractor during the course of, and for the purposes of executing this Contract, all of which will be handed over to the Employer on request during the contract, but in any event on completion of contract, the termination and/or cancellation of this Contract for whatever reason. The Contractor relinquishes its lien / retention or any other rights thereon to which it may be entitled.</li> <li>(b) The copyright of all documents, recommendations and reports compiled by the Contractor during the course of and for the purposes of finalizing the Works will vest in the Employer, and may not be reproduced or distributed or made available to any person outside the Employer's service, or to any institution in any way, without the prior written consent of the Employer. The Employer shall have the right to use such material for any other purpose without the approval of information or payment to the Contractor.</li> <li>(c) The copyright of all electronic aids, software programmes etc. prepared or developed in terms of the Contract shall vest in the Employer, who shall have the right to use such material for any other purpose without the approval of, information or payment to the Contractor.</li> <li>(d) In case of the Contractor providing documents, electronic aids, software programs or like material to the Employer, the development of which has not been at the expense of the Employer, copyright shall not vest in the Employer. The Contractor shall be required to indicate to which documents, electronic aids, software programs or like material this provision applies.</li> <li>(e) The Contractor hereby indemnifies the Employer against any action, claim, damages or legal cost that may be instituted against the Employer on the grounds of an alleged infringement of any copyright, patents or any other intellectual property right in connection with the Works outlined in this Contract.</li> <li>(f) All information, documents, recommendations, programs and reports collected or compiled must be regarded as confidential and may not be communicated or made available to any person outside the Employer's service and may not be published either during the currency of this Contract or after termination thereof without the prior written consent of the Employer.</li> </ul>
1.3.7	<p>Replace Clause 1.3.7 with the following</p> <p>By entering into this contract, the Contractor waives any lien that he may have or acquire, notwithstanding any other condition/s in this contract.</p>
3.2.3	<p>Add to Clause 3.2.3 the following:</p> <ul style="list-style-type: none"> <li>1. The Employer's Principal Agent's authority to act and/or to execute functions or duties or to issue instructions are expressly <b>excluded</b> in respect of the following, unless same has been approved by the employer: <ul style="list-style-type: none"> <li>(a) Appointment of Subcontractors – clause 4.4.4;</li> <li>(b) Granting of an extension of time and/or ruling on claims associated with claims for extension of time – clauses 5.12, 10.1.5;</li> <li>(c) Acceleration of the rate of progress and determination of the cost for payment of such acceleration – clause 5.12.4; (c) Rulings on claims and disputes – clauses 10.1.5, 10.2.3 and 10.3.3;</li> <li>(d) Suspension of the Works – clause 5.11.2;</li> <li>(e) Final Payment Certificate – clause 6.10.9;</li> </ul> </li> </ul>

**Tender / Quotation no: H24/025AI**

	<p>(f) Issuing of <i>mora</i> notices to the Contractor – clauses 9.1.1, 9.1.2.1 and 9.2.1;</p> <p>(g) Cancellation of the contract between the Employer and Contractor – clauses 9.1.1, 9.1.2.1 and 9.2.1.</p> <p>(h) Any variation orders – clause 6.3.1</p> <p>2. In order to be legally binding and have legal bearing and consequence, any ruling in respect of the above matters (a) to (h) must be on an official document, signed and issued by the Employer to the Contractor.</p> <p>3. The Contractor must submit claims, demands, notices, notifications, updated particulars and reports in writing, as well as any other supporting documentation pertaining thereto, in respect of any of the above listed matters (a) to (h), to the Employer's Agent within the time periods and in the format(s) as determined in the relevant clauses of the Conditions of Contract. Failing to deliver such to the Employer's Agent and in the correct format will invalidate any claim and the consequences of such failure will <i>mutatis mutandis</i> be as stated in clause 10.1.4.</p> <p>4. Clauses 6.10.9 and 10.1.5 shall be amended as follows to indicate the limitation on the Employer's Agent authority in respect thereof:</p> <p><b>Clause 6.10.9 – Amend to read as follows:</b></p> <p>Within 14 days of the date of final approval as stated in the Final Approval Certificate, the Contractor shall deliver to the Employer's Agent a final statement claiming final settlement of all moneys due to him (save in respect of matters in dispute, in terms of Clauses 10.3 to 10.11, and not yet resolved).</p> <p>The Employer's Agent shall within 14 days issue to the Contractor a Final Payment Certificate the amount of which shall be paid to the Contractor within 30 days of the date of such certificate, after which no further payments shall be due to the Contractor (save in respect of matters in dispute, in terms of Clauses 10.3 to 10.11 and not yet resolved).</p> <p><b>Clause 10.1.5 – Amend to read as follows:</b></p> <p>Unless otherwise provided in the Contract, the Employer shall, within 28 days after the Contractor has delivered his claim in terms of Clause 10.1.1 as read with Clause 10.1.2, deliver to the Contractor his written and adequately reasoned ruling on the claim (referring specifically to this Clause). The amount thereof, if any, allowed by the Employer shall be included to the credit of the Contractor in the next payment certificate. If no ruling has been made within the 28 days, as referred to in clause 10.1.5. or any extension thereof as agreed to by the parties, the claim shall be regarded as rejected by the Employer.</p> <p>5. Insert the following under 3.2.3:</p> <p>Provided that, notwithstanding any provisions to the contrary in the Contract, the Employer shall have the right to reverse and, should it deem it necessary, to amend any certificate, instruction, decision or valuation of the Employer's Agent and to issue a new one, and such certificate instruction, decisions or valuations shall for the purposes of the Contract be deemed to be issued by the Employer's Agent, provided that the Contractor shall be remunerated in the normal manner for work executed in good faith in terms of an instruction issued by the Employer's Agent and which has subsequently been rescinded.</p>
3.3.2.1	<p>Amend Clause 3.3.2.1 to insert the word "plant" to read as follows:</p> <p>Observe how the Works are carried out, examine and test materials, plant and workmanship, and receive from the Contractor such information as he shall reasonably require.</p>

**Tender / Quotation no: H24/025AI**

3.3.2.2.3	Add to Clause 3.3.2.2.3 the following: All oral communication must be reduced into writing to be binding on the parties.
3.3.2.2.4	Add to Clause 3.3.2.2.4 the following: All oral communication must be reduced into writing to be binding on the parties.
3.3.3.2	Amend Clause 3.3.3.2 to insert the word “plant” to reads as follows: Notwithstanding any authority assigned to him in terms of Clauses 3.3.2 and 3.3.4, failure by the Employer’s Agent’s Representative to disapprove of any work, workmanship, plant or materials shall not prejudice the power of the Employer’s Agent’s thereafter to disapprove thereof and exercise any of his powers in terms of the Contract in respect of thereof.
4.4.4	Ref Clause 3.2.3.
4.4.6	Not applicable to this Contract.
4.8.2.1	Amend Clause 4.8.2.1 to include the word “person”, as follows: Makes available to the Employer, or to any such contractor, person or authority, any roads or ways for the maintenance of which the Contractor is responsible, or
4.8.2.2	Amend Clause 4.8.2.2 to include “Employer” and “contractors”, as follows: Provides any other facility or service of whatsoever nature to the Employer or to any of the said contractors, persons or authorities,
4.12.3	Add to Clause 4.12.3 the following: All oral communication must be reduced into writing to be binding on the parties.
5.3.1	Add to Clause 5.3.1: The documentation required before commencement with Works execution are: <ul style="list-style-type: none"> <li>• Health and Safety Plan to be provided within 14 calendar days from award (Ref Clause 4.3)</li> <li>• Initial programme to be provided within 21 calendar days of handing over the site to the contractor (Clause 5.6)</li> <li>• Security (C1.0, Clause 6.2)</li> <li>• Insurance/s (B6, Clause 8.6)</li> <li>• <i>insert other requirements</i></li> <li>• insert other requirements</li> <li>• insert other requirements</li> </ul>
5.3.2	Add to Clause 5.3.2: The time to submit the documentation required before commencement with Works execution is: <b>21 calendar days.</b>
5.4.2	Add to Clause 5.4.2: The access to, and possession of, the Site referred to in Clause 5.4.1 shall be <b>NOT EXCLUSIVE</b> to the Contractor. In the event of access to, and possession of, the Site is not exclusive to the Contractor, the following limitations apply: N/A

**Tender / Quotation no: H24/025AI**

5.6.2.2	Replace Clause 5.6.2.2 with the following: The sequence, timing of activities and resources for carrying out the Works.
5.6.2.7	Add the following to Clause 5.6.2.7: Updated cash flows and construction programme/s to be submitted on a monthly basis to the Employer's Agent and the Employer.
5.8.1	Add the following to Clause 5.8.1: The non-working days are: <b>Saturdays and Sundays</b> The special non-working days are: <b>Public Holidays and the year-end break annually published by the BCCEI (Bargaining Council for the Civil Engineering Industry)</b>
5.9.1	Amend Clause 5.9.1 as follows:  On the Commencement Date, the Engineer shall deliver to the Contractor three (3) copies, at no cost to the Contractor, of the drawings and any instructions required for the commencement of the Works. The cost of any additional copies of such drawings and/or instructions, as may be required by the Contractor, will be for the account of the Contractor.
5.11.2	Ref Clause 3.2.3
5.12	Ref Clause 3.2.3
5.12.2.2	Amend Clause 5.12.2.2 as following:  "Abnormal climatic conditions, therefore any weather conditions i.e. rain, wind (speed or dust), snow, frost, temperature (cold or heat) that have an adverse effect on the progress of the Works and during which no work is possible on site."
5.13.1	Add the following to Clause 5.13.1: The penalty for failing to complete the Works: Refer to B10 CD
5.14.1	Amend the second paragraph of Clause 5.14.1 as follows:  When the Works are about to reach the said stage, the Contractor shall, in writing, request a Certificate of Practical Completion and the Employer's Agent shall, within 14 days after receiving such request, issue to the Contractor a written list setting out the work to be completed to justify Practical Completion. Should the Employer's Agent not issue such a list within the 14 days, the Contractor shall notify the Employer accordingly. Should the Employer not issue such a list within 7 days of receipt of such notice, Practical Completion shall be deemed to have been achieved on the 14th day after the contractor requested the Certificate of Practical Completion.
5.14.4	Add the following to Clause 5.14.4:  Penalty for late Completion will be 30% of penalty applicable to late Practical Completion / calendar day.  Penalty for late Final Completion will be 15% of penalty applicable to late Practical Completion / calendar day.
5.16.1	Amend Clause 5.16.1 by deleting the provision in the third paragraph of this clause.

**Tender / Quotation no: H24/025AI**

5.16.2	<p>Amend Clause 5.16.2 as follows:</p> <p>No certificate other than the Final Approval Certificate referred to in Clause 5.16.1 shall be deemed to constitute approval of the Works or shall be taken as an admission of the due performance of the Contract or any part thereof, nor of the accuracy of any claim made by the Contractor, nor shall any other certificate exclude or prejudice any of the powers of the Employer's Agent and/or the Employer.</p>
5.16.3	<p>The latent defect period for all works is: <b>5 years</b></p>
6.2.1	<p>The type of security for the due performance of the Contract, as selected by the Contractor in the Contract Data, must be delivered to the Employer.</p>
6.2.3	<p>Amend Clause 6.2.3 as follows:</p> <p>If the Contractor has selected a performance guarantee as security, he shall ensure that it remains valid and enforceable as required in terms of the Contract.</p>
6.3.1	<p>Amend first paragraph to Clause 6.3.1 as follows:</p> <p>If, at any time before the issue of the <b>Practical Completion</b>, the Employer's Agent shall require any variation of the form, quality or quantity of the Works or any part thereof provided that such Variation Order shall not substantially alter the Scope of Work, he shall have power to order the Contractor to do any of the following subject to obtaining approval from the Employer (3.2.3):</p>
6.5.1.2.3	<p>The percentage allowance to cover overhead charges is <b>33%</b>, except on material cost where the percentage allowance is <b>10%</b>.</p>
6.8.2	<p>When Contract Price Adjustment is applicable [B13] the value of payment certificates is to be adjusted by a Contract Price Adjustment Factor (CPAF):</p> <p>The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Factor with the following values:</p> <p>The value of "x" is 0.15.</p> <p>The values of the coefficients are:  a = 0.25. (Labour)  b = 0.3 (Contractor's equipment)  c = 0.3 (Material)  d = 0.15 (Fuel)</p> <p>The values of the coefficients for "Repair and Maintenance Project" (RAMP) contracts are:  a = 0.35 (Labour)  b = 0.20 (Contractor's equipment)  c = 0.35 (Material)  d = 0.10 (Fuel)</p> <p>The urban area nearest the Site is <b>ZEERUST</b>  <i>(Select urban area from Statistical News Release, P0141, Table A)</i></p> <p>The applicable industry for the Construction Material Price Index for materials / plant is <b>Civil Engineering Material</b>.  <i>(Select the applicable industry from Statistical News Release, P0151.1, Tables 2,4,5)</i></p> <p>The area for the Producer Price Index for fuel is <b>ZEERUST</b>  <i>(Select the area from Statistical News Release, P0142.1, Table 1.)</i></p> <p>The base month is <b>AUGUST 2024</b>. <i>(The month prior to the closing of the tender.)</i></p>

**Tender / Quotation no: H24/025AI**

6.8.3	Price adjustments for variations in the costs of special materials are not allowed.
6.9.1	<p>Replace Clause 6.9.1 with the following:</p> <p>“Plant and materials will only be certified and paid for upon furnishing proof of ownership 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 Employers Agent.</p>
6.10.1	<p>Add at end of Clause 6.10.1</p> <p>The contractor shall provide the Employer’s Agent every month, on dates as agreed between parties / instructed by the Principal Agent, with the following information:</p> <ul style="list-style-type: none"> <li>(a) Monthly Local content report,</li> <li>(b) 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)</li> <li>(c) Tax Invoice</li> <li>(d) Labour intensive report</li> <li>(e) Contract participation goal reports</li> <li>(f) Updated construction programme</li> <li>(g) Revised cash flows</li> </ul>
6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is: <b>85 %</b> .
6.10.3	The limit of retention money is dependent on the security to be provided by the Contractor in terms of Clause 6.2.1.
6.10.4	Replace “28 days” with “30 days” provided all required documents including an invoice have been submitted and are correct in all respects.
6.10.5	<p>Replace Clause 6.10.5 with the following:</p> <p><u>In respect of contracts up to R2 million and in respect of contracts above R2 million where the Contractor elects a security by means of a 10% retention, 50% of the retention shall be released to the Contractor when the Employer’s Agent issues the Certificate of Completion in terms of clause 5.14.4. The remaining 50% of the retention shall be released in accordance with the provisions of the conditions of contract and will become due and payable when the Contractor becomes entitled, in terms of Clause 5.16.1, to receive the Final Approval Certificate.</u></p> <p><u>In respect of contracts above R2 million, where the Contractor elects a security by means of a cash deposit or fixed guarantee of 5% of the Contract Sum (excl. VAT) and a 5% retention of the Value of the Works (excl. VAT), the cash deposit or fixed guarantee, whichever is applicable, shall be refunded to the Contractor or return to the guarantor, respectively, when the Employer’s Agent issues the Certificate of Completion in terms of Clause 5.14.4. The 5% retention of the Value of the Works (excl. VAT) shall become due and payable when the Contractor becomes entitled, in terms of Clause 5.16.1, to receive the Final Approval Certificate.</u></p> <p><u>In respect of contracts above R2 million, where the Contractor elects a security by means of a cash deposit or a variable guarantee of 10% of the Contract Sum (excl. VAT), the cash deposit or the variable guarantee, whichever is applicable, will be reduced to 5% of the Value of the Works (excl. VAT) when the Employer’s Agent issues the Certificate of Completion in terms of Clause 5.14.4. The balance of the cash deposit shall become due and payable or the variable guarantee shall expire when the Contractor becomes entitled in terms of Clause 5.16.1 to receive the Final Approval Certificate.</u></p>



**Tender / Quotation no: H24/025AI**

6.10.6.2	Replace Clause 6.10.6.2 with the following: “In the event of failure by the Employer to make the payment by the due date, he shall pay to the Contractor interest, at 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”. (1.1.1.21.A).
6.10.9	Ref Clause 3.2.3.
7.2.1	The last sentence to read “Failing requirements or instructions, the Plant, workmanship and materials of the respective kinds shall be suitable for the intended purpose provided that materials procured for the works are from South African manufactures and suppliers. Imported materials shall only be considered under exceptional circumstances, based on compelling technical justifications, and subject to the approval by the DPWI. Failing to comply, unless specified or approval granted will result in a ten percent (10%) penalty of the value of imported material used without approval.
7.5.3	Add the following to Clause 7.5.3 “Should the work inspected by the Employer’s Agent be rejected, all consultant’s fees / costs pertaining to the unsuccessful inspection shall be recovered from the contractor”.
7.9.1	Insert the following at the end of Clause 7.9.1:  Provided that, should the Contractor on demand not pay the amount of such costs to the Employer, such amount may be determined and deducted by the Employer from any amount due to or that may become due to the Contractor under this or any other previous or subsequent contract between the Contractor and the Employer.
8.2.2.1	Insert the following as a second paragraph to Clause 8.2.2.1:  The Contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the Works and to rebuild, restore, replace and/or repair the Works, failing which the Employer may cause same to be done and recover the reasonable costs associated therewith from the Contractor.
8.3.1.10	Replace Clause 8.3.1.10 with the following:  “Ionising, radiation, or contamination by radioactivity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuels, excluding leakages of any radioactive material / gases / corrosive liquids/chemicals, which are harmful to the environment and biological life, brought on to site for installation or used in the Works prior to final approval”.
8.4.3	Add the following as Clause 8.4.3:  Where the Contractor has caused damage to property (moveable and immovable), of any person, the Employer or third parties, the Contractor shall on receiving a written instruction from the Employer’s Agent immediately proceed at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the Works.
8.6.1	Replace Clause 8.6.1 with the following:  Except if provided otherwise in the Contract Data, the Contractor, without limiting his obligations in terms of the Contract, shall effect and keep the respective insurances [CD] in force, in favour of the employer as beneficiary, from the date of possession of the site until the issue of the certificate of practical completion and with an extension to cover the contractors obligations after the date of practical completion [8.2.1]
8.6.1.1.1	Ref B6.0 CD for value of insurance.
8.6.1.1.2	Ref B6.0 CD for value of insurance.

**Tender / Quotation no: H24/025AI**

8.6.1.1.3	Ref B6.0 CD for value of insurance.
8.6.1.3	<p>Amend Clause 8.6.1.3 as follows:</p> <p>Liability insurance that covers the Contractor against liability for the death of, or injury to any person, or loss of, or damage to any property (other than property while it is insured in terms of Clause 8.6.1.1) arising from or in the course of the fulfilment of the Contract, from the Commencement Date to the date of the end of the Defects Liability Period, if applicable, or otherwise to the issue of the Certificate of Completion.</p>
8.6.4	Not applicable to this Contract.
8.6.6	<p>Replace Clause 8.6.6 with the following:</p> <p>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 all the policies by which the insurances are effected and due proof of upfront payment of all premiums thereunder to keep the policies effective from the Commencement Date to the date of the end of the Defects Liability Period, if applicable, or otherwise to the issue of the Certificate of Completion.</p>
8.6.7	<p>Replace Clause 8.6.7 with the following:</p> <p>If the Contractor fails to effect and keep in force any of the insurances referred to in Clause 8.6.1, the Employer may cancel the Contract in terms of Clause 9.2.</p>
8.6.8	<p><b>Add new Clause 8.6.8.</b></p> <p><b>HIGH RISK INSURANCE</b></p> <p>In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:</p> <p>(1) <b>Damage to the Works</b></p> <p>The Contractor shall, from the date of Commencement of the Works until the date of the Certificate of Completion, bear the full risk of and hereby indemnifies and holds harmless the Employer against any damage to and/or destruction of the Works consequent upon a catastrophic ground movement as mentioned above. The Contractor shall take such precautions and security measures and other steps for the protection of the Works as he may deem necessary.</p> <p>When so instructed to do so by the Employer's Agent, the Contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the Works and to rebuild, restore, replace and/or repair the Works, at the Contractor's own costs.</p> <p>(2) <b>Injury to Persons or Loss of or damage to Properties</b></p> <p>The Contractor shall be liable for and hereby indemnifies and holds harmless the Employer against any liability, loss, claim or proceeding arising during the Contract Period whether arising in common law or by Statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above.</p> <p>The Contractor shall be liable for and hereby indemnifies the Employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or</p>



**Tender / Quotation no: H24/025AI**

	<p>immovable or personal property or property contiguous to the Site, whether belonging to or under the control of the Employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the Contract Period.</p> <p>(3) It is the responsibility of the Contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in Clauses 8.6.8(1) and 8.6.8 (2) above. Without limiting his obligations in terms of the Contract, the Contractor shall, within 21 days of the Commencement Date and before Commencement of the Works, submit to the Employer proof of such insurance policy, if requested to do so.</p> <p>(4) The Employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the Contractor's default of his obligations as set out in Clauses 8.6.8 (1), 8.6.8 (2) and 8.6.8 (3). Provided that, should the Contractor on demand not pay the amount of such costs to the Employer, such amount may be determined and deducted by the Employer from any amount due to or that may become due to the Contractor under this or any other existing or subsequent contract between the Contractor and the Employer.</p>
9.1.1	Ref Clause 3.2.3
9.1.2.1	Ref Clause 3.2.3
9.1.4	<p>Replace the first paragraph of Clause 9.1.4 with the following:</p> <p>"In the circumstances referred to in Clauses 9.1.1, 9.1.2 or 9.1.3 (provided that the circumstances in 9.1.3 is not due to the fault of the Contractor, his employees, contractors or agents), and whether or not the Contract is terminated under the provisions of this Clause, the Contractor shall be entitled on proof of payment of any increased cost of or incidental to the execution of the Works which is specifically attributable to, or consequent upon the circumstances defined in Clauses 9.1.1, 9.1.2 or 9.1.3; ..... necessary changes"</p>
9.1.5	<p>Replace the first paragraph of Clause 9.1.5 with the following:</p> <p>If the Contract is terminated on any account in terms of this Clause (provided that the circumstances in 9.1.3 is not due to the fault of the Contractor, his employees, contractors or agents) , the Contractor shall be paid by the Employer (insofar as such amounts or items have not already been covered by payments on account made to the Contractor) for all measured work executed prior to the date of termination, the amount (without retention), payable in terms of the Contract and, in addition: "</p>
9.1.5.5	Not applicable to this Contract.
9.1.6	Not applicable to this Contract.
9.2.1	Ref Clause 3.2.3
9.2.1.3.9	<p><b>Add new Clause 9.2.1.3.9:</b></p> <p>Has failed to effect and keep in force any of the insurances referred to in Clause 8.6.1.</p>
9.2.4	<p>Add the following as Clause 9.2.4:</p> <p>In the case where a contract is terminated by the Employer by no fault by any party, the contractor shall be entitled to no other compensation than for work done and materials on site as certified by the Principal Agent at the date of termination.</p>

**Tender / Quotation no: H24/025AI**

9.3.2.2	<p>Replace Clause 9.3.2.2 with the following:</p> <p>All Plant and Construction Equipment, Temporary Works and unused materials brought onto the Site by the Contractor, and where ownership has not been transferred to the Employer (see Clause 6.9.1), shall be removed from the Site on termination of the contract by any party.</p>
9.3.2.3	Not applicable to this Contract.
9.3.3	<p>Add the following at the end of Clause 9.3.3</p> <p>After cancellation of the Contract by the Contractor, the Contractor, when requested by the Employer to do so, shall not be entitled to refuse to withdraw from the Works on the grounds of any lien or a right of retention or on the grounds of any other right whatsoever.</p> <p>Nothing in this Clause shall prejudice the right of the Contractor to exercise, either in lieu of or in addition to the Contractor rights and remedies specified in this Clause, any other rights or remedies to which the Contractor may be entitled under the Contract or common law.</p>
10.1.3.1	<p>Replace Clause 10.1.3.1 with the following:</p> <p>All facts and circumstances relating to the claims shall be investigated as and when they occur or arise. For this purpose, the Contractor shall deliver to the Employer's Agent, records in a form approved by the Employer's Agent, of all the facts and circumstances which the Contractor considers relevant and wishes to rely upon in support of his claims, including details of all construction equipment, plant, labour, and materials relevant to each claim. Such records shall be submitted promptly after the occurrence of the event giving rise to the claim.</p>
10.1.3.6	<p>Replace Clause 10.1.3.6 with the following:</p> <p>The Employer, the Employer's Agent and the Contractor shall in any proceedings in accordance with Clauses 10.3 and 10.11 be entitled to give or lead evidence of or rely on any fact or circumstance not recorded in terms of this Clause, if other party to the dispute is prejudiced by such non-recording of the facts.</p>
10.1.4	Ref Clause 3.2.3.
10.1.5	Ref Clause 3.2.3.
10.1.6	<p><b>Add new Clause 10.1.6:</b></p> <p>If the Employer fails to give his ruling within the period referred to in Clause 10.1.5 he shall be deemed to have given a ruling dismissing the claim.</p>
10.1.3.6	<p>Replace Clause 10.1.3.6 with the following:</p> <p>The employer, the Employer's Agent and the Contractor shall in any proceedings in accordance with Clauses 10.3 and 10.11 be entitled to give or lead evidence oof or rely on any fact or circumstance not recorded in terms of the Clause, if the other party to the dispute in prejudiced by such nor-recording of the facts.</p>
10.2.1	<p>Replace Clause 10.2.1 with the following:</p> <p>In respect of any matter arising out of or in connection with the Contract, which is not required to be dealt with in terms of Clause 10.1 or which does not require the decision or ruling of the Employer, the Contractor or the Employer shall have the right to deliver a written dissatisfaction claim to the Employer's Agent. This written claim shall be supported by particulars and substantiated.</p>

**Tender / Quotation no: H24/025AI**

10.2.2	<p>Replace Clause 10.2.2 with the following:</p> <p>If, in respect of any matter arising out of or in connection with the Contract, which is not required to be dealt with in terms of Clause 10.1 or which does not require the decision or ruling of the Employer, the Contractor or the Employer fails to submit a claim within 28 days after the cause of dissatisfaction, he shall have no further right to raise any dissatisfaction on such matter.</p>
10.2.3	Ref clause 3.2.3.
10.3.2	<p>Replace Clause 10.3.2 with the following:</p> <p>If either party shall have given notice in compliance with Clause 10.3.1, the dispute shall be referred immediately to mediation under Clause 10.5, unless amicable settlement is contemplated.</p>
10.3.3	<p>Replace Clause 10.3.3 with the following::</p> <p>In respect of a ruling given by the Employer (Ref clause 3.2.3), and although the parties may have delivered a Dispute Notice, the ruling shall be in full force and carried into effect unless and until otherwise agreed by both parties, or in terms of a mediation decision or court judgement.</p>
10.4.2	<p>Replace Clause 10.4.2 with the following:</p> <p>If the other party rejects the invitation to amicable settlement in writing, or does not respond in writing to the invitation within 14 days, or amicable settlement is unsuccessful, referral to mediation shall follow immediately. Should mediation be unsuccessful, the dispute shall be resolved by Litigation.</p>
10.4.4	<p>Replace Clause 10.4.4 with the following:</p> <p>Save for reference to any portion of any settlement, or decision which has been agreed to be final and binding on the parties, no reference shall be made by or on behalf of either party in any subsequent court proceedings, to any outcome of an amicable settlement, or to the fact that any particular evidence was given, or to any submission, statement or admission made in the course of the amicable settlement.</p>
10.5	<p>Replace Clause 10.5 with the following:</p> <p>The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:</p> <p>10.5.1 The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties.</p> <p>10.5.2 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.</p>
10.6	Not applicable to this Contract.
10.7	Not applicable to this Contract.
10.10.3	<p>Replace Clause 10.10.3 with the following:</p> <p>The court shall have full power to open up, review and revise any ruling, decision, order, instruction, certificate or valuation of the Employer's Agent and Employer and neither party shall be limited in such proceedings before such court to the evidence or arguments put before the Employer's Agent or Employer for the purpose of obtaining his ruling.</p>

**Tender / Quotation no: H24/025AI**

## **B 16.0 CONTRACT PARTICIPATION GOAL TARGETS AND CIDB B.U.I.L.D. PROGRAMME**

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as described in PG-01.2 (EC): Scope of Work and PG-02.2 (EC): Pricing Assumptions and in accordance with the feasibility study, which forms part of the specifications in the CPG Section of the Specification of this contract.

(a)	Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b><i>Applicable</i></b>
(b)	Minimum Targeted Local Building Material Suppliers Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b><i>Applicable</i></b>
(c)	Minimum Targeted Local Labour Skills Development Contract Participation Goal in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b><i>Applicable</i></b>
(d)	<b>cidb BUILD Programme:</b> Minimum Targeted Enterprise Development Contract Participation Goal in accordance with the cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b><i>Applicable</i></b>
(e)	<b>cidb BUILD Programme:</b> Minimum Targeted Contract Skills Development Goal in accordance with the cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 48491 of 28 April 2023. and the cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.	<b><i>Applicable</i></b>
(f)	DPWI National Youth Service training and development programme (NYS) – Condition of Contract.	<b><i>Not applicable</i></b>
(g)	Labour Intensive Works – Condition of Contract.	<b><i>Applicable</i></b>
(h)		<b><i>Select</i></b>
(i)		<b><i>Select</i></b>

Tender / Quotation no: H24/025AI

## PART 2: CONTRACT DATA COMPLETED BY THE TENDERER:

### C TENDERER'S SELECTIONS

#### C 1.0 Securities [11.0]

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 more than R1 million, the security to be provided by the contractor to the employer will be selected by the Contractor as indicated below:

**Guarantee for construction:** Select Option A, B, C, D or E

Option A	cash deposit of 10 % of the contract sum (excluding VAT)
Option B	variable construction guarantee of 10 % of the contract sum (excluding VAT) (DPW-10.3 EC)
Option C	payment reduction of 10% of the value certified in the payment certificate (excluding VAT)
Option D	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)
Option E	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) (DPW-10.1 EC)]

**NB: Insurances 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 53 of 1998)] or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.**

<b>Guarantee for payment by employer [11.5.1; 11.10]</b>	Not applicable
Advance payment, subject to a <b>guarantee for advance payment [11.2.2; 11.3]</b>	Not applicable

**Tender / Quotation no: H24/025AI**

## **C 2.0 Payment of preliminaries [25.0]**

### **Contractor's selection**

Select Option A or B

☐

Where the **contractor** does not select an option, Option A shall apply

### **Payment methods**

Option A	The <b>preliminaries</b> shall be paid in accordance with an amount prorated to the value of the <b>works</b> executed in the same ratio as the amount of the <b>preliminaries</b> to the <b>contract sum</b> , which <b>contract sum</b> shall exclude the amount of <b>preliminaries</b> . Contingency sum(s) and any provision for cost fluctuations shall be excluded for the calculation of the aforesaid ratio
Option B	The <b>preliminaries</b> shall be paid in accordance with an amount agreed by the <b>principal agent</b> and the <b>contractor</b> in terms of the <b>priced document</b> to identify an initial establishment charge, a time-related charge and a final dis-establishment charge. Payment of the time-related charge shall be assessed by the <b>principal agent</b> and adjusted from time to time as may be necessary to take into account the rate of progress of the <b>works</b>

### **Lump sum contract**

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the **contract sum**, excluding contingency sum(s) and any provision for cost fluctuations.

## **C 3.0 Adjustment of preliminaries [26.9.4]**

### **Lump sum contract**

Where the amount of **preliminaries** is not provided it shall be taken as 7.5% (seven and a half per cent) of the **contract sum**, excluding contingency sum(s) and any provision for cost fluctuations.

### **Contractor's selection**

Select Option A or B

☐

Where the **contractor** does not select an option, Option A shall apply.

### **Provision of particulars**

The **contractor** shall provide the particulars for the purpose of the adjustment of **preliminaries** in terms of his selection. Where completion in **sections** is required, the **contractor** shall provide an apportionment of **preliminaries** per **section**.

Option A	An allocation of the <b>preliminaries</b> amounts into Fixed, Value-related and Time-related amounts as defined for adjustment method Option A below, within fifteen (15) <b>working days</b> of the date of acceptance of the tender
Option B	A detailed breakdown of the <b>preliminaries</b> amounts within fifteen (15) <b>working days</b> of possession of the <b>site</b> . Such breakdown shall include, inter alia, the administrative and supervisory staff, the use of <b>construction equipment</b> , establishment and dis-establishment charges, insurances and guarantees, all in terms of the <b>programme</b>



**Tender / Quotation no: H24/025AI**

## Adjustment methods

The amount of **preliminaries** shall be adjusted to take account of the effect which changes in time and/or value have on **preliminaries**. Such adjustment shall be based on the particulars provided by the **contractor** for this purpose in terms of Options A or B, shall preclude any further adjustment of the amount of **preliminaries** and shall apply notwithstanding the actual employment of resources by the **contractor** in the execution of the **works**.

Option A	<p>The <b>preliminaries</b> shall be adjusted in accordance with the allocation of <b>preliminaries</b> amounts provided by the <b>contractor</b>, apportioned to <b>sections</b> where completion in <b>sections</b> is required</p> <p>Fixed - An amount which shall not be varied.</p> <p>Value-related - An amount varied in proportion to the <b>contract value</b> as compared to the <b>contract sum</b>. Both the <b>contract sum</b> and the <b>contract value</b> shall exclude the amount of <b>preliminaries</b>, contingency sum(s) and any provision for cost fluctuations.</p> <p>Time-related - An amount varied in proportion to the number of <b>calendar days</b> extension to the date of <b>practical completion</b> to which the <b>contractor</b> is entitled with an adjustment of the <b>contract value</b> [23.2; 23.3] as compared to the number of <b>calendar days</b> in the initial <b>construction period</b> [26.9.4].</p>
Option B	<p>The adjustment of <b>preliminaries</b> shall be based on the number of <b>calendar days</b> extension to the date of <b>practical completion</b> to which the <b>contractor</b> is entitled with an adjustment of the <b>contract value</b> [23.2; 23.3] as compared to the number of <b>calendar days</b> in the initial <b>construction period</b> [26.9.4]. The adjustment shall take into account the resources as set out in the detailed breakdown of the <b>preliminaries</b> for the period of construction during which the delay occurred.</p>

## Failure to provide particulars within the period stated

Option A	<p>Where the allocation of <b>preliminaries</b> amounts for Option A is not provided, the following allocation of <b>preliminaries</b> amounts shall apply:</p> <p>Fixed - Ten per cent (10%) Value-related - Fifteen per cent (15%) Time-related - Seventy-five per cent (75%)</p> <p>Where the apportionment of the <b>preliminaries</b> per <b>section</b> is not provided, the categorised amounts shall be prorated to the cost of each <b>section</b> within the <b>contract sum</b> as determined by the <b>principal agent</b></p>
Option B	<p>Where the detailed breakdown of <b>preliminaries</b> amounts for Option B is not provided, Option A shall apply</p>

## DPW-10.2 (EC): VARIABLE CONSTRUCTION GUARANTEE GCC 3<sup>rd</sup> Edition (2015)

Director-General  
Department of Public Works and Infrastructure  
Government of the Republic of South Africa

### FOR ATTENTION

**To: Department of Public Works and Infrastructure**  
Private Bag X 65  
**PRETORIA**  
**0001**

Sir,

### VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF GCC 3<sup>rd</sup> Edition (2015)

1. With reference to the contract between \_\_\_\_\_  
\_\_\_\_\_ (hereinafter referred to as  
the “**contractor**”) and the Government of the Republic of South Africa in its Department of Public Works and  
Infrastructure (hereinafter referred to as the “**employer**”), Contract/Tender No: **H24/025AI** for the  
**Kopfontein, Swartkopfontein and Derdepoort Land Ports of Entry: 36 Months Infrastructure**  
**Maintenance and Repairs of Buildings, Civil, Mechanical, Electrical, and Installations (Appointment of**  
**Contractor)**  
(hereinafter referred to as the “**contract**”) for the sum of  
R \_\_\_\_\_, (*In words*) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_, (hereinafter referred to  
as the “**contract sum**”).
- I / We, \_\_\_\_\_  
in my/our capacity as \_\_\_\_\_ and hereby  
representing \_\_\_\_\_ (hereinafter referred  
to as the “**guarantor**”) advise that the **guarantor** holds at the **employer**’s disposal the sum of  
R \_\_\_\_\_, (*In words*) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ being 10% of the **contract**  
**sum** (excluding VAT), for the due fulfilment of the **contract**.

2. I / We advise that the **guarantor**’s liability in terms of this guarantee shall be as follows:
- (a) From and including the date on which this guarantee is issued and up to and including the day  
before the date on which the last **certificate of completion** of works is issued, the **guarantor** will  
be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding  
VAT);



**Tender no: H24/025AI**

- (b) The **guarantor's** liability shall reduce to 5 % of the **value of the works** (excluding VAT) as determined at the date of the last **certificate of completion** of works, subject to such amount not exceeding 10% of the **contract sum** (excluding VAT);
- (c) This guarantee shall expire on the date of the last **final approval certificate**.
3. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis; and de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to pay the **employer** the amount guaranteed on receipt of a written demand from the **employer** to do so, stating that (in the **employer's** opinion and sole discretion):
- (a) the **contractor** has failed or neglected to comply with the terms and/or conditions of the **contract**;  
or
- (b) the **contractor's** estate is sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.
4. Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the **contract**, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.
5. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon issue of the last **final approval certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
6. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
7. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the guaranteed amount with the **employer**, whereupon the **guarantor's** liability ceases.
8. This guarantee is neither negotiable nor transferable, and
- (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 5 above, or
- (b) shall lapse in accordance with clause 2 (c) above.
9. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than payment of the amount guaranteed.

**SIGNED AT** \_\_\_\_\_ **ON THIS** \_\_\_\_\_ **DAY OF** \_\_\_\_\_ **20** \_\_\_\_\_

**AS WITNESS**

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

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

Tender no: H24/025AI

By and on behalf of:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(insert the name and physical address of the guarantor)

NAME: \_\_\_\_\_

CAPACITY: \_\_\_\_\_  
(duly authorised thereto by resolution attached marked  
Annexure A)

DATE: \_\_\_\_\_

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This GUARANTEE must be returned to: \_\_\_\_\_  
\_\_\_\_\_

## DPW-10.4 (EC): FIXED CONSTRUCTION GUARANTEE GCC 3<sup>rd</sup> Edition (2015)

Director-General  
Department of Public Works and Infrastructure  
Government of the Republic of South Africa

### FOR ATTENTION

**To: Department of Public Works and Infrastructure**  
Private Bag X 65  
**Pretoria**  
**0001**

Sir,

### FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF GCC 3<sup>rd</sup> Edition (2015)

- With reference to the contract between \_\_\_\_\_  
\_\_\_\_\_ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa in its Department of Public Works and Infrastructure (hereinafter referred to as the “**employer**”), Contract/Tender No: **H24/025AI** for the **KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)** (hereinafter referred to as the “**contract**”), for the sum of R \_\_\_\_\_, (*In words*) \_\_\_\_\_,  
\_\_\_\_\_, (hereinafter referred to as the “**contract sum**”).  
  
I / We, \_\_\_\_\_  
in my/our capacity as \_\_\_\_\_ and hereby  
representing \_\_\_\_\_ (hereinafter referred to as the “**guarantor**”) advise that the **guarantor** holds at the **employer**’s disposal the sum of R \_\_\_\_\_,  
\_\_\_\_\_, (*In words*) \_\_\_\_\_,  
\_\_\_\_\_  
being 5% of the **contract sum** (excluding VAT), for the due fulfillment of the **contract**.
- The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis*; and *de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves

Contract/Tender No: **H24/025A1**

to be conversant, and undertake to pay the **employer** the amount guaranteed on receipt of a written demand from the **employer** to do so, stating that (in the **employer's** opinion and sole discretion):

- (a) the **contractor** has failed or neglected to comply with the terms and/or conditions of the **contract**;  
or
  - (b) the **contractor's** estate is sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.
3. Subject to the above, but without in any way detracting from the **employer's** rights to adopt any of the procedures provided for in the **contract**, the said demand can be made by the **employer** at any stage prior to the expiry of this guarantee.
4. The amount paid by the **guarantor** in terms of this guarantee may be retained by the **employer** on condition that upon the issue of the last **final approval certificate**, the **employer** shall account to the **guarantor** showing how this amount has been expended and refund any balance due to the **guarantor**.
5. The **employer** shall have the absolute right to arrange his affairs with the **contractor** in any manner which the **employer** deems fit and the **guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **contractor's** obligation shall not affect the validity of this guarantee.
6. The **guarantor** reserves the right to withdraw from this guarantee at any time by depositing the guaranteed amount with the **employer**, whereupon the **guarantor's** liability ceases.
7. This guarantee is neither negotiable nor transferable, and
- (a) must be surrendered to the **guarantor** at the time when the **employer** accounts to the **guarantor** in terms of clause 4 above, or
  - (b) shall lapse on the date of the last **certificate of completion** of works.
8. This guarantee shall not be interpreted as extending the **guarantor's** liability to anything more than the payment of the amount guaranteed.

**SIGNED AT** \_\_\_\_\_ **ON THIS** \_\_\_\_\_ **DAY OF** \_\_\_\_\_ **20**\_\_\_\_\_.

**AS WITNESS**

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

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

Contract/Tender No: **H24/025A1**

**By and on behalf of:**

---

---

(insert the name and physical address of the guarantor)

**NAME:** \_\_\_\_\_

**CAPACITY:** \_\_\_\_\_  
(duly authorised thereto by resolution attached marked  
Annexure A)

**DATE:** \_\_\_\_\_

- A.** No alterations and/or additions of the wording of this form will be accepted.
- B.** The physical address of the guarantor must be clearly indicated and will be regarded as the guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C.** This GUARANTEE must be returned to: \_\_\_\_\_

---

---

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **PART C2 PRICING DATA**

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **C2.1 PRICING INSTRUCTIONS**

## PG-02.1 (EC) PRICING ASSUMPTIONS – GCC 3<sup>rd</sup> Edition (2015)

Project title:	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)</b>		
Tender / Quotation no:	H24/025AI	Reference no:	H24/025AI

### C2.1 Pricing Assumptions

#### C2.1.1 GENERAL

The Bill of Quantities forms part of the Contract Documents and must be read and priced in conjunction with all the other documents comprising the Contract Documents, which include the Conditions of Tender, Conditions of Contract, the Specifications (including the Project Specification) and the Drawings.

#### C2.1.2 DESCRIPTION OF ITEMS IN THE SCHEDULE

The Bill of Quantities has been drawn up generally in accordance with Civil Engineering Quantities 1990 issued by the SA Institution of Civil Engineers.

The short descriptions of the items in the Bill of Quantities are for identification purposes only and the measurement and payment clause of the Standardized Specifications and the Particular Specifications, read together with the relevant clauses of the Project Specification and directives on the drawings, set out what ancillary or associated work and activities are included in the rates for the operations specified.

#### C2.1.3 QUANTITIES REFLECTED IN THE SCHEDULE

The quantities given in the Bill of Quantities are estimates only, and subject to remeasuring during the execution of the work. The Contractor shall obtain the Engineer's detailed instructions for all work before ordering any materials or executing work or making arrangements for it.

The Works as finally completed in accordance with the Contract shall be measured and paid for as specified in the Bill of Quantities and in accordance with the General and Special Conditions of Contract, the Specifications and Project Specifications and the Drawings. Unless otherwise stated, items are measured net in accordance with the Drawings, and no allowance has been made for waste.

The validity of the contract will in no way be affected by differences between the quantities in the Bill of Quantities and the quantities finally certified for payment.

#### C2.1.4 PROVISIONAL SUMS

Where Provisional sums or Prime Cost sums are provided for items in the Bill of Quantities, payment for the work done under such items will be made in accordance with Clause 45 of the General Conditions of Contract 2004. The Employer reserves the right, during the execution of the works, to adjust the stated amounts upwards or downwards according to the work actually done under the item, or the item may be omitted altogether, without affecting the validity of the Contract.

The Tenderer shall not under any circumstances whatsoever delete or amend any of the sums inserted in the "Amount" column of the Bill of Quantities and in the Summary of the Bill of Quantities unless ordered or authorized in writing by the Employer before closure of tenders. Unauthorized changes made by the Tenderer to provisional items in the Bill of Quantities, or to the provisional percentages and sums in the Summary of the Bill of Quantities will lead to the disqualification of the Tenderer.

#### C2.1.5 PRICING OF THE BILL OF QUANTITIES

The **bills of quantities / lump sum document** forms part of and must be read and priced in conjunction with all the other documents forming part of the **contract documents**, the Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings and all other relevant documentation.



The prices and rates to be inserted by the Tenderer in the Bill of Quantities shall be the full inclusive prices to be paid by the Employer for the work described under the several items, and shall include full compensation for all cost and expenses that may be required in and for the completion and maintenance during the defects liability period of all the work described and as shown on the drawings as well as all overheads, profits, incidentals and the cost of all general risks, liabilities and obligations set forth or implied in the documents on which the Tender is based.

Each item shall be priced and extended to the “Total” column by the Tenderer, with the exception of the items for which only rates are required, or items which already have Prime Cost or Provisional Sums affixed thereto. If the Contractor omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

The Tenderer is required to check the Bills of Quantities and the numbers of the pages and should any be found to be missing or in duplicate, or should any of the typing be indistinct, or any doubt of obscurity arise as to the meaning of any description or particulars of any item, or if this Tender Enquiry contains any obvious errors, then the Tenderer must immediately inform the Principal Agent and have them rectified or explained in writing as the case may be. No liability whatsoever will be admitted by reason of the Contractor having failed to comply with the foregoing instruction.

No alterations, erasures, omissions or additions is to be made in the text and/or conditions of these Bills of Quantities. Should any such alterations, amendments, note/s or addition be made, the same will not be recognized, but reading of these Bills of Quantities as originally prepared by the Quantity Surveyor will be adhered to.

The contractor is cautioned that the use of any quantities appearing in these Bills of Quantities for the purpose of ordering material, it is done at own risk and no liability whatsoever will be admitted by the Employer or Quantity Surveyor for the correctness of such Quantities. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.

The prices and rates to be inserted by the Tenderer in the Bills of Quantities shall be the full inclusive prices to be paid by the Employer for the work described. Such prices and rates shall cover all costs and expenses that may be required in and for the execution of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based, as well as overhead charges and profit. Market related prices shall be inserted as these will be used as a basis for assessment of payment for additional work that may have to be carried out. The Employer reserves the right to balance the Bill rates where deemed necessary within the Tendered Amount.

A price or rate is to be entered against each item in the Bills of Quantities, whether the quantities are stated or not. An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word “included” or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the Employer may also perform a risk analysis with regard to the reasonableness of such rates.

Should the full intent and meaning of any description not be clear, the bidder shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of National Best Practice.

All items for which terminology such as “inclusive” or “not applicable” have been added by the Tenderer will be regarded as having a nil rate which shall be valid irrespective of any change in quantities during the execution of the Contract.

The Tenderer shall fill in rates for all items where the words “rate only” appear in the “Total” column. “Rate Only” items have been included where:

- (a) variations of specified components in the make-up of a pay item may be expected; and
- (b) no work under the item is foreseen at tender stage but the possibility that such work may be required is not excluded.

For 'Rate Only' items no quantities are given in the "Quantity" column but the quoted rate shall apply in the event of work under this item being required. The Tenderer shall however note that in terms of the Tender Data the Tenderer may be asked to reconsider any such rates which the Employer may regard as unbalanced.

Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the "PW 371" and the principles contained in the latest version of the SANS 1200 in South Africa. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the bidder shall, before submission of his tender, call for a written directive from the principal agent, failing which it shall be assumed that the contractor has allowed in his pricing for materials and workmanship in terms of National Best Practice.

The price quoted against each item of this Bills of Quantities shall cover the full inclusive cost of the complete work to which it refers, as described in the Conditions of Contract and Specifications and as shown on the Drawings and shall allow for labour, material, transporting, loading, storage, supervision, commissioning, wastage, as well as the builders profit and attendance.

The Tenderer must ensure that he fully completes all columns of the Bill of Quantities including the Final Summary. The fully priced bill of quantities must be submitted with the tender or The Final Summary and the Section Summary pages MUST be returned with the tender document as indicated the PA-03 Notice and Invitation to Tender / PA-04 Notice and Invitation for quotation.

The tenderers are to ensure that they have read and understood the project specifications included in C3: Scope of Work. All the information provided in the Scope of Works form part of the work and must be included in the rates.

"The Contractor shall be deemed to have inspected and examined the Site and its surroundings and information available in connection therewith and to have satisfied himself before submitting his tender (as far as is practicable) as to:

- (a) the form and nature of the Site and its surroundings, including subsurface conditions,
- (b) the hydrological and climatic conditions,
- (c) the extent and nature of work and materials necessary for the execution and completion of the Works,
- (d) the means of access to the Site and the accommodation he may require

and, in general, shall be deemed to have obtained all information (as far as is practicable) as to risks, contingencies and all other circumstances which may influence or affect his Tender"

#### C2.1.6 VALUE ADDED TAX

The **contract sum** must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the **bills of quantities / lump sum document** shall be in Rands and cents and shall include all levies and taxes (other than VAT). VAT will be added in the summary of the Bill of Quantities. The rates must however be net (exclusive of VAT) with VAT calculated and added to the total value thereof in the Final Summary. All rates and amounts quoted in the Bill of Quantities

#### C2.1.7 CORRECTION OF ENTRIES

Incorrect entries shall not be erased or obliterated with correction fluid but must be crossed out neatly. The correct figures must be entered above or adjacent to the deleted entry, and the alteration must be initialled by the Tenderer.

#### **C2.1.8 ARITHMETICAL ERRORS**

Arithmetical errors found in the Bill of Quantities as a result of faulty multiplication or addition, will be corrected by the Engineer at the tender evaluation stage, as set out in the Tender Data.

#### **C2.1.9 CONTRACT DOCUMENTS**

The Tenderers are advised to examine the bills of quantities, drawings and specifications including all other contract documents and make themselves thoroughly acquainted with the nature and requirements of the work, as no claim for extra payment in this regard will be entertained. Should any parts of the drawings not be clearly intelligible to the Tender, he must, before submitting his tender, obtain clarification from the Principal Agent.

#### **C2.1.10 UNITS OF MEASUREMENT**

The units of measurement described in the Bill of Quantities are metric units for which the standard international abbreviations are used. Non-standard abbreviations which may appear in the Bill of Quantities are as follows:

No.	=	Number
%	=	Percent
Sum	=	Lump sum
PCsum	=	Prime cost sum
Prov sum	=	Provisional sum
m <sup>3</sup> .km	=	Cubic metre - kilometre
Km-pas	=	kilometre - pass
m <sup>2</sup> .pass	=	square metre – pass

#### **C2.1.11 TRADE NAMES**

Tenderers attention is drawn to the fact that wherever trade names or references to any catalogue have been made in these Bills of Quantities, it is purely to establish a standard for the required material. If use is made of any other equally approved material in lieu of the prescribed trade name or catalogue, the necessary price adjustments will be made.

#### **C2.1.12 CONTRACT DOCUMENTS**

The Tenderers are advised to examine the bills of quantities, drawings and specifications including all other contract documents and make themselves thoroughly acquainted with the nature and requirements of the work, as no claim for extra payment in this regard will be entertained. Should any parts of the drawings not be clearly intelligible to the Tender, he must, before submitting his tender, obtain clarification from the Principal Agent.

#### **C2.1.13 PAYMENTS**

Interim valuations and payments will be prepared on a monthly basis, all in terms of the conditions of contract.

The contractor is to note that no payment will be made for materials stored off site and in the case of materials being stored on site, payment will only be made for such materials on condition that they have not been delivered to the site prematurely, a tax invoice and proof of payment (ownership) is submitted by the Contractor.

#### **C2.1.14 ACCOMMODATION ON SITE**

It is imperative to note that no living quarters for construction workers on site will not be permitted for the full duration of the contract unless otherwise stated in the contract data or permission be granted by the Employer.

## **C2.1.15 LOCAL MATERIAL UTILISATION REPORT (LOCAL CONTENT)**

**Submission of Local Material Utilisation Reports is *applicable* to this project.**

Bidders to note that materials procured for the works should be from South African manufactures and suppliers. Imported materials shall only be considered under exceptional circumstances, based on compelling technical justifications, and subject to the approval by the NDPWI.

The contractor shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, indicating the percentage targets achieved in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

## **C2.1.16 CONTRACT PARTICIPATION GOALS**

The contractor shall achieve in the performance of this contract the following Contract Participation Goals (CPGs) as indicated below:

Provision for pricing of compliance with the achieving the CPGs is made in the Contract Participation Goal Section of the Bills of Quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained

Monthly progressive reports to be submitted to the Employer's representative indicating the percentage targets achieved which must be reconciled upon completion of the project and to form part of the final account.

### **C2.1.16.1 MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS CONTRACT PARTICIPATION GOAL**

**The Minimum Targeted Local Building Material Manufacturers CPG is *applicable* to this project.**

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.1. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

### **C2.1.16.2 MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS CONTRACT PARTICIPATION GOAL**

**The Minimum Targeted Local Building Material Suppliers CPG is *applicable* to this project.**

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.2. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

#### **C2.1.16.3 MINIMUM TARGETED LOCAL LABOUR CONTRACT PARTICIPATION GOAL**

**The Minimum Targeted Local Labour Skills Development CPG is *applicable* to this project.**

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Labour CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.3. T Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

#### **C2.1.16.4 MINIMUM TARGETED ENTERPRISE DEVELOPMENT: CONTRACT PARTICIPATION GOALS (CPG)**

**The Minimum Targeted Enterprise Development Contract Participation Goal is *applicable* to this project.**

A provisional amount has been allowed for within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Enterprise Development CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.4. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises. The provisional amount will be adjusted in accordance with the actual Contract Amount (Awarded tender amount excluding allowance, provisional amounts and VAT) of the awarded bid.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

The contractor shall complete a separate bill of quantities upon the award of the project and identification of the respective beneficiaries and the appointment of the training coordinator, mentor, training service providers of which the cost will be offset against the provisional amount allowed in the Bills of Quantities.

#### **C2.1.16.5 MINIMUM TARGETED TARGETED CONTRACT SKILLS DEVELOPMENT GOALS (CSDG)**

**The Minimum Targeted Contract Skills Development CPG is *applicable* to this project.**

A provisional amount has been allowed for within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Skills Development CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.5. The provisional amount allowed is for:

- stipends payable to the beneficiaries
- appointment of training coordinator
- appointment of mentor (where applicable)
- appointment of training service providers
- other additional costs as per Table 3 of the Standard

The provisional amount will be adjusted in accordance with the actual Contract Amount (Awarded tender amount excluding allowance, provisional amounts and VAT) of the awarded bid.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative



on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

The contractor shall complete a separate bill of quantities upon the award of the project and identification of the respective beneficiaries. The CPG value to be achieved will be based on the actual contract amount which will be offset against the provisional amount allowed for within the Contract Participation Goal section in the Bill of Quantities.

#### Payment

The contractor shall upon the appointment of beneficiaries, provide a breakdown of all the associated costs. The contractor shall provide a payment schedule as to how the CPG costs will be claimed against for inclusion in the monthly payment certificates.

(a) Payment to the contractor to accommodate Part/Full Occupational qualification and Trade qualifications;

Should the contractor select Part/Full Occupational qualification and Trade qualifications learners, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

The contract skills participation goal, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for the applicable class of construction works. Should the contractor select Part/Full Occupational qualification and Trade qualifications learners, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

**Table 1: Contracting skills development goals for different classes of engineering and construction works contracts**

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No 48491 Government Gazette, 23 April 2023 (Table 2, Page 7)

Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004		Construction skills development goal (CSDG) (%)
Designation	Description	
CE	Civil Engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

No provision for an additional payment item for the payment of the supervisor and/or mentors for the provision of training as provided for in the Contract Participation Goal section in the Bill of Quantities for the training of part/full time occupational learners and/or trade qualification learners. The associated cost is deemed to be included in general supervision on site.

The contractor shall complete a separate bill of quantities upon award, indicating the type and number of beneficiaries as well as the associated Notional Cost of Training to be provided, on which payment will be based.

(b) Payment to the contractor to accommodate Work Integrated Learners and Candidates for professional registration;

Should the contractor select Work Integrated Learners and/or Candidates for professional registration, then the employer shall make provision for payment to the contractor as indicated in Table 3 of the Standard.

Provisional amounts have been included in the Contract Participation Goal section in the Bill of Quantities for the training of Work Integrated Learners and Candidates for professional registration. The contractor shall price his Profit and Attendance (all inclusive of associated costs to the contractor for implementation and reporting), based on the provisional amount in the Contract Participation Goal section in the Bill of Quantities.

The contractor shall complete a separate bill of quantities upon award, indicating the type and number of beneficiaries as well as the associated Notional Cost of Training to be provided, on which payment will be based.

The CPG value to be achieved will be based on the contract amount as defined by the Standard, which will be offset against the provisional amount allowed for within the Contract Participation Goal section in the Bill of Quantities.

The contractor shall apportion the cost of accommodating work integrated learners (P1 and P2 learners) and candidates for professional registration by using Table 3 in the Standard and this cost will be used to determine the Rand value and will be used in determining the contract participation goal in the Bills of Quantities.

**Table 3: The notional cost pf providing training opportunities per quarter**

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No 48491 Government Gazette, 23 April 2023 (table 3, Page 9)

Type of Training Opportunity	Provision for stipends (Unemployed learners only)	Provisions for mentorship	Provisions for additional costs*	Total costs	
				Unemployed learners	Employed learners
Method 1					
Occupational qualification	R7 000	R0	R9 000	R16 000	R9 000
Method 2					
TVET College graduates	R14 000	R0	R9 000	R23 000	N/A
Apprenticeship	R14 000	R0	R12 000	R26 000	R12 000
Method 3					
P1 and P2 learners	R24 000	R20 000	R4 500	R48 500	N/A
Method 4					
Candidates with a 3 year diploma	R37 000	R20 000	R4 500	R61 500	R20 000
Candidates with 4 year qualification	R47 000	R20 000	R4 500	R71 500	R20 000

*Note: The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI. Should the rates increase after bid award or during construction the rates will be adjusted as a provisional item.*

**Example:** Training Target Calculation for a R65,7m GB contract

Contract amount	R65 700 000
Contract duration	12 Months
CSDG	0,50%
Minimum CSDG target	0,50% x R65 700 000 = R328 500 (Minimum requirement)

Skills Types	Number of learners	Notional Cost / Learner / Quarter	Notional cost/learner/year	Total Notional Cost over 12 months Contract
<b>Method 2:</b> Workplace learning opportunities, with unemployed TVET graduates	1	R23 000	R92 000	R92 000
<b>Method 3:</b> Candidacy for an unemployed learner with a 3-year qualification	1	R61 500	R246 000	R246 000
Total	2			R338 000

#### C2.1.16.6 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME

**The National Youth Service Training and Development Programme is *applicable* to this project.**

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities.

Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the National Youth Service Training and Development Programme CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.6.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

#### C2.1.16.7 LABOUR-INTENSIVE WORKS

**Labour Intensive Works is *applicable* to this project.**

Where labour intensive work is specified in the Bill of Qualities and indicated by "LI" the contractor must price for and include in rates. Contractors are expected to use their initiative to identify additional activities that can be done labour-intensively to comply with the set minimum labour intensity target. Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the monthly reporting illustrating the value of the works executed under Labour Intensive Works CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.7 and any other supplementary specifications.

Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

#### C2.2 Submission of Accrual Reports

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.



KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **C2.2 BILL OF QUANTITIES**

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## CALCULATION OF TENDER SUMMARY

## TENDER

TOTAL : CIVIL REPAIR WORK	R .....
TOTAL : CIVIL MAINTENANCE WORK	R .....
TOTAL : ELECTRICAL REPAIR WORK	R .....
TOTAL : ELECTRICAL MAINTENANCE WORK	R .....
TOTAL: MECHANICAL REPAIR WORK	R .....
TOTAL : MECHANICAL MAINTENANCE WORK	R .....

---

TOTAL OF SCHEDULE OF QUANTITIES	R .....
---------------------------------	---------

---

15 % VALUE ADDED TAX (VAT)	R .....
----------------------------	---------

---

TENDER SUM CARRIED TO THE TENDER FORM	R .....
---------------------------------------	---------

---

SIGNED ON BEHALF OF THE TENDERER: .....

**DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE****TENDER NO. H24/025AI****KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS****BILL OF QUANTITIES****SUMMARY OF SCHEDULE OF QUANTITIES: CIVIL REPAIR WORK**

				<b>TENDER</b>
Schedule No.	1	Installation 1	General and Preliminary	R .....
Schedule No.	2.1	Installation CR1	Structural and Building	R .....
Schedule No.	2.2	Installation CR2	Plumbing, Drainage & Wet Services	R .....
Schedule No.	2.3	Installation CR3	Fencing, Cleaning and Site Keeping	R .....
Schedule No.	2.4	Installation CR4	Bulk Water Supply System and and External Water reticulation	R .....
Schedule No.	2.5	Installation CR5	Wastewater Treatment Works and Sewer Networks	R .....
Schedule No.	2.6	Installation CR6	Roads and Storm Water Drainage	R .....

---

**TOTAL OF BILL OF QUANTITIES: CIVIL REPAIR WORK  
CARRIED TO CALCULATION OF TENDER SUM**
**R .....**


---

**SIGNED ON BEHALF OF THE TENDERER:**

.....

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

## KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SANS 1200 A PSA 8.3.1	<b>100,00</b>	<b>PRELIM AND GENERAL</b>				
	<b>100,01</b>	<b>Scheduled fixed-charge and value-related items:</b>				
		.01 Fixed preliminary and general charges (Release 80% after site establishment and 20% after contract completion)	Sum	1		
PS 3 PSA 8.4.1		.02 Details of contract	Sum	1		
	<b>100,02</b>	<b>Scheduled time-related items:</b>				
		.01 Kopfontein Port of Entry	No	36		
		.02 Swartkopfontein Port of Entry	No	36		
		.03 Derdepoort Port of Entry	No	36		
		<u>TEMPORARY WORKS</u>				
		<b>Location and protection of existing services:</b>				
PSA 8.8.4.1	<b>0,01</b>	<b>Provision of detecting devices for:</b>				
		.01 Water and sewer pipes	Sum	1		
		.02 Electrical and other cables	Sum	1		
		.03 Hand excavation necessary for locating and exposing existing services in all material:	m³	5		
		.01 In roadways				
		.02 In all other areas	m³	5		
PSA 8.12	<b>0,02</b>	<b>Call centre:</b>				
		.01 Call centre for breakdown calls logged	PC Sum	1	R 80 000,00	R 80 000,00
		.02 Charge required by Contractor on subitem .01 above	%	R 80 000,00		
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SB.02	100,04	<b><u>HOUSING FOR THE ENGINEER'S REPRESENTATIVE</u></b>				
	.01	Housing for the Engineer's representative	PC SUM	1	R 350 000,00	R 350 000,00
	.02	Charge required by Contractor on sub item .01 above	%	R 350 000,00		
	.03	Survey assistants and materials	PC SUM	1	R 300 000,00	R 300 000,00
	.04	Charge required by Contractor on sub item 3. above	%	R 300 000,00		
	100,05	<b>Survey, compile and supply complete site plans of Kopfontein, Swartfontein and Derdepoort Ports of Entry Operational and Residential Areas which shall include:</b>				
	.01	Existing structures, facilities, roads, paving etc	Sum	1		
	.02	Stormwater drainage system	Sum	1		
	.03	Electrical infrastructure	Sum	1		
	.04	Fire fighting equipment and infrastructure	Sum	1		
	.05	Sewer network and bulk wastewater	Sum	1		
	.06	Bulk water supply and water distribution network	Sum	1		
	.07	Telephone lines	Sum	1		
		<b><u>OCCUPATIONAL HEALTH AND SAFETY ACT</u></b>				
SI.01	100,06	.01 Compliance to OHS Act Requirements and Construction Regulations 2014	Month	36		
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SI.01	100,07	<p><b><u>HIV/AIDS AWARENESS</u></b></p> <p>It is required of the Contractor to thoroughly study the Additional Specification SH: HIV/AIDS Requirements (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. Provision for pricing of HIV/AIDS awareness is made under the items 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 Representative/Agent, notwithstanding the provisions of Clause 52 of the General Conditions of Contract for Works of Civil Engineering Construction or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p>				
SH07		.01 Awareness Campaign				
		Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services.	Sum	1		
SH 04.01		Awareness Workshops				
		Selection and appointment of a competent Service Provider approved by the Representative/Agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-meø techniques, including follow-up courses, making available all tuition material and performing assessment procedures.	No	2		
SH 04.03		.03 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.	Sum	1		
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SH 05		.04 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.	Sum	36		
SH 08		.05 Monitoring  Monitoring HIV/AIDS awareness of workers, providing the Representative/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.	Sum	36		
BF PSA 8.6	100,08	<b><u>PEST CONTROL</u></b>  .01 Preventative pest control	PCSum	1	R 100 000,00	R 100 000,00
PSA 8.6	100,09	.02 Charge required by Contractor on sub item .01 above  <b><u>BMA CONTINGENCY</u></b>  .01 Provide contingency measures during festive seasons .02 Charge required by Contractor on sub item .01 above  <b><u>EMPLOYMENT AND TRAINING OF LABOUR ON THE EPWP-NYS INFRASTRUCTURE PROJECTS</u></b>  Tenderers are advised to study the Additional Specification SN & SL: Employment and Training of Labour on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service, as bound elsewhere in the Technical Specification, and then price this Bill accordingly.  <u>Training of youth workers (Target: 25 youth workers)</u>	%  PCSum  %	R 100 000,00  1  R 200 000,00		
SN 10.03						
SN 10.01/ SL11.01	100,10	<b>Orientation, Life skills development and technical skills training:</b>  .01 Orientation and Life Skills development training for youth workers for an average of 10 days per youth worker	PC Sum	1	R 40 000,00	R 40 000,00
SN 10.01.01						
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SN 10.01.02		.02 Technical skills training for youth workers for an average of 90 days	PC Sum	1	R 160 000,00	R 160 000,00
		.03 Profit and attendance for administration of items .01, and.02 above	%	R 200 000,00		
SL 11.01.02		.04 Penalty due to not meeting the target as in SN 10.01.02	Youth-	-	-R 2 000,00	Rate only
SN 10.1.03		.05 First Aid Level 1 training for EPW P workers for an average 5 of days per EPWP worker (ref. SN 10.01.03)	PC Sum	1	R 15 000,00	R 15 000,00
		.06 Profit and attendance for administration of items .05 above	%	R 15 000,00		
SN 10.01.04		.07 The above formal training, shall be provided by accredited training providers	Sum	1		
		<u>TRAVELLING AND ACCOMMODATION DURING OFF-SITE TRAINING:</u>				
SN 11.02.01	100,11	<b>Life Skills Training for 30 days (ref SL 11.02.01)</b>				
		.01 Travelling (based on 50 km/youth worker)	PC sum	1	R 50 000,00	R 50 000,00
		.02 Accommodation (based on R150/youth worker)	PC sum	1	R 112 500,00	R 112 500,00
		.03 Profit and attendance for administration of items .01 and .02 above	%	R 162 500,00		
		.04 Penalty for not achieving the Local Labour Target (LLT) Percentage (%) difference between the contracted LLT percentage (%) and the actual LLT percentage (%) achieved in the performance of the contract. Also see SN 07.02		Tender Sum excl. VAT & CPA	$\frac{1 \times (D - D_0)}{100}$	Rand value of penalty
SN 10.02.01	100,12	<b>SKILLS DEVELOPMENT AND TECHNICAL TRAINING</b>				
		.01 Travelling (based on 50km/youth worker)	worker-days	730		
		.02 Accommodation (based on R150/youth worker)	PC sum	1	R 1,00	R 1,00
		.03 Profit and attendance for administration of item .01 and .02 above	%	1		
Carried forward						



## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SL 11.03.02	100,13	<b>ALTERNATIVE WORKERS FOR THE PERIOD OF OFF- SITE TRAINING:</b>  Skills development and technical training for youth workers for 10 days (ref. SN 10.03.02)	worker-days	150		
SN 10.03.01	100,14	<u>EMPLOYMENT OF EPWP WORKERS</u>  <b>Employment of Youth Workers</b>  The unit of measurement shall be the number of Youth Workers (30) at the statutory labour rates of <b>R 2 425.60 per month per stipend</b> multiplied by the period employed in months and the rate tendered shall include full compensation for all costs associated with the employment of Youth Workers and for complying with the conditions of contract. The cost for the training shall be excluded from this item. This item is based on 6 Months appointment for youth workers or for the minimum criteria. Employment of EPWP workers: Plus 5% Annual Escalation (i.t.o Ministerial determination)				
		.01 Employment of EPWP workers: 30 workers x 5 months x 190 work days and 9 workers x 27 months x 540 work days	PC sum	1	R 950 000,00	R 950 000,00
		.02 Profit and attendance for administration of items 0.01	%	R 950 000,00		
SL 11.05/ SN 10.04	100,15	<b>PROVISION OF EPWP DESIGNED OVERALLS AND HARD HATS AND SAFETY BOOTS (PPE) TO EPWP WORKERS</b>				
SL 11.05.01		.01 Supply EPWP designed Overalls (PPE) to Youth Workers @ R1800 per Set of PPE	PC sum	1	R 20 000,00	R 20 000,00
SL 11.05.02		.02 Profit and attendance for administration of items .01 above	%	R 20 000,00		
SN 10.04.01		.03 Supply 2 x EPWP branded overalls to each EPWP worker(ref. SN 10.04.01)	PC sum	1	R 7 500,00	R 7 500,00
SN 10.04.02		.04 Supply 1 x EPWP branded hard hat to each EPWP worker (ref. SN 10.04.02)	PC sum	1	R 8 000,00	R 8 000,00
SN 10.04.03		.05 Supply 1 x pair of safety boots to each EPWP worker (ref. SN 10.04.03)	PC sum	1	R 4 000,00	R 4 000,00
SN 10.04.04		.06 Profit and attendance for administration of items .03, .04 and .05 above	%	R 31 000,00		
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SL 11.06.02	100,16	<b>PROVISION OF SMALL TOOLS FOR YOUTH</b>  .01 Supply of small tools to youth workers. Specification to be supplied by the EPWP-NYS Service Provider for the respective trades (ref SL 11.06.01). @ R1 500 p / worker (30)	PC sum	1	R 12 500,00	R 12 500,00
		.02 Profit and attendance for administration of items .01 above	%	R 12 500,00		
SL 11.07		.01 Appointment of Youth Team Leader/s for the duration of the contract 6 Months (ref. SL 11.07)	Prov sum	1	R 6 000,00	R 6 000,00
SL 11.08		.02 Liaison with Service Provider (ref. SL 11.08)	hours	100		
		<u>TESTING</u>				
EJ 05	100,17	<b>Potable water quality testing:</b>  .01 Potable water quality tests to be performed by an approved SANAS laboratory on a monthly basis on the water delivered to the consumers for determinants specified in EJ04.07	No	36		
		.02 Potable water quality tests to be performed by an approved SANAS laboratory on a regular basis on the water abstracted from boreholes for determinants specified in EJ04.07	No	36		
PSA 8.9	100,18	<b>Additional tests:</b>  .01 Additional tests required by the Engineer	PC Sum	1	R 20 000,00	R 20 000,00
		.02 Attendance and profit of item .01 above	%	R 20 000,00		
EG 07.01	100,19	<b>SLUDGE DISPOSAL KOPFONTEIN AND DERDEPOORT</b>  .01 Pumping out of septic tank sludge into a suitable waste containment vehicle for transportation on the instruction of the Engineer/Department's representatives	m³	60		
		.02 Disposal of septic tank sludge at a certified and approved municipal wastewater treatment works and submitting a certificate to detail and verify the safe disposal	m³.km	15 000		
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
DW 06.01	100,20	<b>EMERGENCY WATER SUPPLY</b> Supply and delivery of potable water in batches of 1 000L from commercial sources on the instruction of the Engineer/Department's representatives	m³	12 000		
EN.01	100,21	<b>WATER LEGISLATION COMPLIANCE LICENSING OF SEWAGE WORKS</b>				
		.01 Water Quality Management Report i.t.o Aide Memoire	PC Sum	1	R 10 000,00	R 10 000,00
		.02 Profit and attendance on item .01	%	R 10 000,00		
		.03 License application	PC Sum	1	R 10 000,00	R 10 000,00
		.04 Profit and attendance on item .03	%	R 10 000,00		
EM.04		.09 EMP during repair and operation	PC Sum	1	R 50 000,00	R 50 000,00
		.10 Profit and attendance on item .09	%	R 50 000,00		
		<b>RECORD KEEPING</b>				
SA.07	100,22	<b>Site Maintenance Record Keeping (monthly maintenance report for all schedules, checklists, reports, etc as detailed in specification SA 03.10 and maintenance control plan):</b>				
		.01 Kopfontein Port of Entry	Month	36		
		.02 Swartkopfontein Port of Entry	Month	36		
		.03 Derdepoort Port of Entry	Month	36		
PG01,1 (EC)		<b>CONTRACT PARTICIPATION GOALS (CPG) - FOR THE CALCULATION OF THESE GOALS, REFER ALSO TO DOCUMENT IN PART C7: NDPWI CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME IMPLEMENTATION GUIDE</b>  Provisional sums and prime cost items  Only with the prior approval of the department project manager and after consultation with the department quantity surbeyor, may a propvisional sum or a prime cost (PC) item be inserted in the bills of quantities. For ease of reference all provisional sums are to be kept in a seperate section in the bills of quantities				
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>121,00</b>	<b>COMMUNITY LIASON OFFICER (CLO)</b>				
	1	Provide the sum of R185 000,00 (One hundred eighty-five thousand Rands) for the community liaison officer for the construction period of 12 months for each port of entry	PC Sum	1	R 185 000,00	R 185 000,00
	<b>121,1</b>	<b>PROCUREMENT OF CONSTRUCTION MATERIAL FOR THE CONTRACT PARTICIPATION GOAL</b>				
	1	Provide the sum of R 1000 000,00 (one million Rands) for the procurement of construction material	PC Sum	1	R 185 000,00	R 185 000,00
		Charge required by Contractor on sub item .01 above	%	R 185 000,00		
	<b>121,2</b>	<b>CLERK OF WORKS</b>				
	1	Provide the sum of R185 000,00 (One hundred eighty-five thousand Rands) for the community liaison officer for the construction period of 12 months for each port of entry				
	2	Kopfontein, Swartkopfontein and Derdepoort Land Ports of Entry	PC Sum	R 1,00	R 180 000,00	R 180 000,00
	3	Profit and attendance for administration of item above	%	R 180 000,00		
		<b><u>CONTRACT PARTICIPATION GOALS (CPG)</u></b>				
		Note to tenderers: As CPGs may not provide any bidder a competitive advantage. Provisional amounts and fixed percentage for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and /or the beneficiaries have been appointed, and the finale values have been ascertained.				
	<b>121,3</b>	<b>MINIMUM TARGETED LOCAL BUILDING MATERIAL MANUFACTURERS</b>				
	1	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.2 Material of the value of R 2 000 000.00 should be purchased from local manufacturers as defined in the cPG specifications in terms of locally, based on determination by PQS taking into account specific project variables.				
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	2	Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors.	%	R 2 000 000,00		
	3	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 2 000 000,00		
	4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 2 000 000,00		
	121,4	<b>MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS</b>				
	1	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.2. Material to the value of R 2 000 000.00 should be purchased from local suppliers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables.				
	2	Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors.	%	R 2 000 000,00		
	3	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 2 000 000,00		
	4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 2 000 000,00		
	121,5	<b>MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT</b>				
	1	Provision is made for the Minimum Targeted Local Labour Skills CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.4.. This allowance is for the cost for a suitably qualified and experienced training service provider appointed by the main contractor	PC Sum	1,0	R 150 000,00	R 150 000,00
	2	Allowance for monitoring and monthly reporting on training provided by main contractor and subcontractors.	%	R 150 000,00		
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	3	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 150 000,00		
	4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 150 000,00		
	<b>121,6</b>	<b>MINIMUM TARGETED ENTERPRISE</b>				
	1	Provision is made for 5 % compulsory subcontracting to SMMEs in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.1. The percentage is the contractors allowance for the P&G's for the 5% sub-contractors (SMME's). The PQS to the SMME's e.g. scaffolding , PPE etc.	PC Sum	1,0	R 150 000,00	R 150 000,00
	2	A provisional amount has been allowed for in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.5. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting.	PC Sum	1,0	R 150 000,00	R 150 000,00
	3	Allowance for monitoring and monthly reporting on SMME subcontracting by main contractor and subcontractors including training provided.	%	R 300 000,00		
	4	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 300 000,00		
	5	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 300 000,00		
	<b>121,7</b>	<b>MINIMUM TARGETED SKILLS DEVELOPMENT GOALS</b>				
	1	A provisional amount has been allowed for the Minimum Targeted Development CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.5.				
Carried forward						

## SCHEDULE NO 1: GENERAL AND PRELIMINARY

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	2	<ul style="list-style-type: none"> <li>• stipends payable to the beneficiaries</li> <li>• appointment of training coordinator</li> <li>• appointment of mentor (where applicable)</li> <li>• appointment of training service providers</li> <li>• other additional costs as per table 3 of the Standard</li> </ul>	PC Sum	1,0	R 150 000,00	R 150 000,00
	3	Allowance for monitoring and monthly reporting on skills development by main contractor and subcontractors.	%	R 150 000,00		
	4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 150 000,00		
	5	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 150 000,00		
	<b>121,8</b>	<b>LABOUR INTENSIVE PARTICIPATION GOAL</b>				
	1	Labour Intensive Participation Goal - Labour in tensive works to the value of R 500,000.00 should be purchased from local suppliers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors				
	2	Allowance for monitoring and monthly reporting on	%	R 200 000,00		
	3	Allowance for attendance all inclusive of	%	R 200 000,00		
	<b>121,9</b>	<b>Enterprise Development of Targeted Enterprise or JV partners</b>				
	1	Appointment of training co-ordinator (As determined by the PQS)	No.	12,0		
	2	Appointment of Mentor /Training Service provider (As determined by the PQS)	No.	12,0		
	3	Needs Analysis and Enterprise Development Plan per Targeted Enterprise (As determined by the PQS)	No.	4,0		
	4	Monitoring and Interim reporting per targeted enterprise (As determined by the PQS)	No.	12,0		
	5	Project Completion report per Targeted Enterprise (As determined by the PQS)	No.	4,0		
<b>TOTAL CARRIED TO REPAIR SUMMARY: GENERAL AND PRELIMINARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

## KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## | SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BA.01	200.00	<b><u>STRUCTURAL AND BUILDING</u></b>				
	201.00	<b><u>ROOFS: CLADDING AND SHEETING</u></b>				
	201.01	<b>Supply and install cladding and sheeting:</b>				
		.01 0.58mm galvanised ribbed sheet steel with chromadek finish on one side in single lengths fixed to timber purlins or rails and 0.5mm galvanised sheet steel accessories finished with "Chromadek" on one side:				
		.01 Roof covering fixed to timber or steel	m <sup>2</sup>	37,00		
		.02 200mm Thick thatch of hand cut grass 50kg/m/150mm thickness with a fire retardant interlay of heavy industrial grade aluminium based sheeting woven in between the thatch and lapped 100mm at joints and grass fixed by means of suitable fixing rods interlaced through and over the bundles at not exceeding 600mm centres and secured through interlay with tarred twine to eucalyptus battens CCA treated in accordance with SABS 457, varying in diameter from 20 to 40mm, spaced generally at maximum 300mm centres and at closer centres nearer to eaves				
		.01 Roof covering to general slopes fixed to timber or steel purlins	m <sup>2</sup>	366,00		
BA.03	201.02	<b>Carefully remove existing cladding and sheeting:</b>				
		.01 Existing galvanised sheet metal roof covering removed from timber or steel purlins or grits:	m <sup>2</sup>	19,00		
		.02 Thatch roof including timber brandering etc.	m <sup>2</sup>	366,00		
		.03 Sheet metal flashings to corrugated roof covering	m <sup>2</sup>	20,00		
Carried forward						



## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BA.05	201.03	Supply and install sundry items, etc.:				
		.01 0.58mm spelter galvanised ribbed sheet steel with chromadek finish on one side in single lengths fixed to timber purlins or rails and 0.5mm galvanised sheet steel accessories finished with "Chromadek" on one side BA.01:				
		.01 Ridge flashing 300mm girth	m	4,00		
		.02 Barge flashing 462mm girth	m	48,00		
		.03 Extra over ridge capping for purpose made circular ridge cap	number	1,00		
		.02 100mm fibreglass blanket laminated to 4mm white bubble layer on one side and reinforced foil on other or similar approved insulation				
BA.08	201.04	Carefully remove existing rainwater goods:				
		.01 75mm Diameter rainwater downpipes	m	3		
BA.14	201.05	Rehabilitation				
		.01 Prepare existing previously painted roof sheeting and paint with two coats bituminous paint as per technical specification BA03.01	m²	66		
		.02 Sanding down and preparation for paint:				
		.01 To corrugated roof sheeting	m²	1593		
		.02 To gypsum ceilings	m²	2793		
		.03 To fascia and barge boards	m²	751		
		.04 To sheet metal gutters	m	895		
		.05 To sheet metal downpipes	m	414		
Carried forward						

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BC.02.01	201.06	<b>Waterproofing of concrete roofs:</b>				
		.01 Prepare existing waterproofing to receive new waterproofing				
		.01 To flat concrete roofs including concrete fillets and upstand beams	m²	66		
		.02 Items measured by square metre:				
		.01 Pure acrylic emulsion waterproofing paint with polyester membrane or glass-fibre tissue waterproofing sealing system	m²	12		
	202.00	<b><u>ROOFS: CARPENTRY AND JOINERY</u></b>				
BB.01	202.01	<b>Supply and install new items measured by length:</b>				
		.01 225 x 10mm thick pressed fibre cement fascia, including painting, etc.	m	51		
		.02 225 x 10mm thick pressed fibre cement barge board, including painting, etc.	m	10		
		.03 38 x 114mm Wrought sloping SAP wall plates	m	10		
BB.04	202.02	<b>Remove existing joinery items by length:</b>				
		.01 Fascia and barge boards	m	55		
	202.03	<b>Supply and install new items measured by area:</b>				
		.01 Construct timber roof structure as per roof drawing with purlins spaced at greater than 1500mm centres drawn tautly across rafters with purlins spaced at greater than 1500mm centres and secured to each rafter with 38mm x 3,2mm x 1100mm hardboard counter batten strips positioned flush with the bottom edge of the material thus leaving 150mm overlap exposed at the top for the next layer and 150mm overlap thereafter on each 1250mm width roll and polyolefin waterproofing laid over top of purlins.	m²	10		
Carried forward						

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BB.02	202.04	Ceilings:				
		.01 4mm gypsum ceiling board with square edges fixed at right angles to brandering, fixed print side up with 32mm galvanised clout or semi-clout nails at 150mm centres to 38 x 38mm SA Pine brandering at 300mm centres. All joints to be covered with tape over joints and then plastered with 3-6mm thick gypsum skim plaster:				
		.01 Ceilings including 38 x 38mm sawn softwood brandering at 300mm centres	m²	221		
		.02 75mm Coved cornices	m	306		
		.03 Extra over ceiling for 600 x 600mm trap door of 38 x 38mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	number	1		
BB.04	202.05	Alterations and repairs to existing structures:				
		.01 Remove:				
		.01 Soft board, plaster board or fibre cement ceiling boards including cornices, cover and jointing strips	m²	216		
	203.00	<u>BUILDING WORK</u>				
BD.01	203.01	Doors and windows:				
		.01 Steel door frames:				
		.01 1,6mm thick pressed steel door frame for door size 813mm x 2032mm high suitable for 230mm wall	number	1		
		.02 Steel door:				
		.01 Natural anodised aluminium doors for 1500 x 2100mm high opening in 230mm walls, side lights and fanlights glazed with 6,38 toughened laminated safety clear glass	number	5		
Carried forward						

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
BD.03	203.02	.02 Natural anodised aluminium shower cubicle door, size 900 x 2100mm high, with sliding gear, cleats, stops, etc and 4mm toughened obscure safety glass plugged to tiled walls. Shower door to be sealed all around with clear silicone sealant	number	6			
		.03 Welded screens, gates, etc.:					
		.01 Security gate, size 1813x 2032 high	number	1			
		.02 Security window, size 1500 x 1200mm high	number	2			
		Joinery:					
		.01 Items measured by number:					
		.01 Semi-solid flush internal quality doors hung to steel frames size 40mm thick x 813 x 2032mm high	number	13			
		.02 Solid flush external quality doors hung to steel frames 40mm thick x 813 x 2032mm high	number	7			
		.03 Mesh screen door hung to steel frames, 40mm thick x 813 x 2032mm high	number	1			
BD.04	203.03	.04 Wrought meranti 813 x 2032mm rebated door frames bolted to brickwork	number	1			
		Ironmongery, steelwork, glass, wall finishes, etc.:					
		.01 Items measured by number:					
		.01 100mm Steel butt hinge to match existing	number	33			
		.02 Three lever mortice lock to match existing	number	12			
		.03 Cylinder escutcheon to match existing	number	4			
		.04 Set of two aluminium pull handles fixed back to back to match existing	number	8			
Carried forward							

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.04		.05 15mm chrome plated shower set with taps and rose with C-connections, under tile stop taps, shower arm and shower head, manufactured in accordance with SANS 226:2009	number	6		
		.06 Double flap plastic seat to match existing	number	6		
		.07 Cistern lid to match existing	number	6		
		.08 400 x 365mm wash hand basin to match existing	number	6		
		.09 643mm x 355mm x 30mm high, white vitreous china semi close coupled water closet with 90 degree outlet open rim wash-down pan fitted with thermoset seat with hinges to suit pan, connected to front single flush vandal proof cistern, fitted with and including brackets, bolts and washers. Sealed to floor with silicone sealant	number	6		
	203.04	<b>Repair damaged element to match existing:</b>				
		.01 Aluminium sliding door rollers, floor springs etc,	number	20		
	204.00	<b><u>MISCELLANEOUS</u></b>				
	204.01	<b>Various items:</b>				
		.01 Items measured by linear metre:				
		.01 150mm Wide turning piece to lintels etc	m	4		
		.02 150mm Wide brick reinforcement built in horizontally	m	94		
		.03 Extra over brickwork for brick-on-edge header course lintel pointed on face	m	4		
		.04 170mm Wide sill set level and slightly projecting	m	3		
Carried forward						

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.05	204.02	.05 One layer of 375 micron DPC embossed damp proof course in walls	m²	1		
		.02 Items measured by area:				
		.01 8 mm Clear float glass panes exceeding 0,5m² and not exceeding 2m²	m²	94		
		.02 One Brick wall of NFP bricks in class II mortar	m²	24		
		.03 Extra over brickwork for face brickwork to mach existing face bricks pointed with flush horizontal and vertical joints (PC = R8000.00/1000)	m²	48		
		<b>Alterations and repairs to existing structures:</b>				
		.01 Remove, repair and refix:				
		.01 Single timber door 40mm thick x 813 x 2032mm high	number	1		
		.02 Glazed aluminium window 1500 x 1200m high from one brick wall	number	2		
		.02 Break out/ hack up/ demolish and remove:				
		.01 Timber single door and steel frame 813 x 2032mm high	number	13		
		.02 Aluminium Sliding door 1500 x 2100mm high	number	5		
		.03 75mm Thick concrete apron slabs	m²	154		
		.04 115mm Brick wall	m²	24		
		.05 150 x 150mm White glazed ceramic tiles on walls	m²	95		
		.03 Pressure clean existing surfaces:				
		.01 Existing bathroom internal walls	m²	373		
		.04 General clean of existing surfaces:				
		.01 Existing internal walls	m²	45		
		Carried forward				

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		.05 Making good external cement plaster				
		.01 Walls in patches	m <sup>2</sup>	276		
		.06 Sand down previously painted surfaces and prepare to receive new paint (paint measured elsewhere)				
		.01 To steel window frames	m <sup>2</sup>	932		
		.02 To steel doors	m <sup>2</sup>	98		
		.03 To steel door frames	m <sup>2</sup>	495		
		.04 To timber doors	m <sup>2</sup>	927		
		.05 To steel security gates	m <sup>2</sup>	82		
		.06 To roller shutter garage doors	m <sup>2</sup>	119		
		.07 To 110mm wide timber door architrave	m	10		
	205.00	<b>FLOORS</b>				
BE.01	205.01	<b>Floor screeds:</b>				
		.01 30mm Thick concrete screed on floors and landings	m <sup>2</sup>	6		
BE.02	205.02	<b>Joinery</b>				
		.01 Items measured in linear metre:				
		.01 19 x 120mm Hardwood skirting nailed	m	155		
BE.03	205.03	<b>Floor tiling and finishes, etc.:</b>				
		.01 Items measured by linear metre:				
		.01 300 x 300 x 5mm Ceramic tile skirtings to match existing tile skirtings approved tile adhesive mixed with bonding liquid in lieu of water and joints grouted with tile grout with 5mm joints continuous in both directions (PC R200,00)	m	80		
Carried forward						

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BE.04	205.04	.02 Items measured by area:				
		.01 300 x 300 x 5mm Ceramic floor tiles to match existing floor tiles approved tile adhesive mixed with bonding liquid in lieu of water and joints grouted with tile grout with 5mm joints continuous in both directions (PC R200,00)	m²	148		
		.02 152 x 152 x 5mm White glazed ceramic wall tiles approved tile adhesive mixed with bonding liquid in lieu of water and joints grouted with tile grout with 5mm joints continuous in both directions (PC R200.00)	m²	97		
		.03 300 x 300 x 3 mm semi-flexible vinyl floor tiles to match existing (PC Amount R280/m²)	m²	668		
		.04 Three coats wax polish on vinyl flooring	m²	668		
		<b>Alterations and repairs to existing structures:</b>				
		.01 Remove:				
		.01 Ceramic floor tiles, 300 x 300mm, including removing mortar bed or backing and preparing concrete or brick surfaces for plaster or tile finishes (new tiles measured elsewhere)	m²	142		
		.02 Vinyl tile floor covering including preparing screed for new vinyl floor covering	m²	668		
		.03 Timber skirting from brickwork	m	145		
		.02 Cleaning and sealing of floor surfaces:				
		.01 Existing bathroom internal floors	m²	225		
		.02 Existing internal screeded floors	m²	63		
		.03 Existing internal tiled floors	m²	1416		
Carried forward						



## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BH.03	206.00	<b><u>FITTINGS</u></b>				
	206.01	<b>Alterations and repairs to existing fittings:</b>				
		.01 Service, repair and refix cupboards as per				
		.01 To steel built-in cupboards 313 x 1872mm high	number	1		
BJ.01		.02 To timber built-in cupboards 313 x 1872mm high	number	1		
		.03 To timber built-in cupboards 313 x 2979mm high	number	1		
	207.00	<b><u>PAINT WORK</u></b>				
	207.01	<b>Paint to new unpainted surfaces:</b>				
		.01 Steel surfaces:				
		.01 Two coats alkyd enamel paint				
		.01 On door frames	m <sup>2</sup>	2		
		.02 On corrugated iron roof sheeting	m <sup>2</sup>	7		
		.02 Plaster board:				
		.01 Two coats interior quality PVA emulsion paint				
		.01 On ceilings and cornices	m <sup>2</sup>	8		
		.02 One filler coat and two coats exterior quality PVA emulsion paint				
		.01 On ceilings and cornices	m <sup>2</sup>	8		
		.03 One coat primer and two coats interior quality white paint				
		.01 On fascias and barge boards	m <sup>2</sup>	30		
		.03 Wood Surfaces				
		.01 Three coats clear varnish				
		01. On doors	m <sup>2</sup>	3		
		02. On skirtings, rails, etc not exceeding 300 mm girth	m	10		
Carried forward						

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BJ.02	207.02	Paint to previously painted surfaces:				
		.01 Floated plaster:				
		.01 Two coats interior quality PVA emulsion paint on work in good condition				
		.01 On internal walls	m²	7708		
		.02 On ceilings and beams	m²	40		
		.02 One undercoat coat and two coats exterior quality PVA emulsion paint				
		.01 On external walls	m²	6274		
		.02 Smooth concrete:				
		.01 Two coats primer, two coats epoxy paint and one coat sealer				
		.01 Paint to screeds	m²	14		
		.03 Plaster board:				
		.01 Two coats interior quality PVA emulsion paint on work in good condition				
		01. On fascias and barge boards	m²	751		
		02. On ceilings and cornices	m²	2328		
		.02 One filler coat and two coats interior quality PVA emulsion paint				
		.01 On ceilings and cornices	m²	465		
		.03 One coat primer and two coats interior quality white paint				
		.01 On fascias and barge boards	m²	200		
		.04 Metal:				
		.01 Two coats alkyd enamel paint on previously painted steel in good condition				
		.01 On eaves gutters	m²	392		
		.02 On windows	m²	932		
Carried forward						

## SCHEDULE NO 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		.03 On door frames	m <sup>2</sup>	495		
		.04 On doors	m <sup>2</sup>	250		
		.05 On corrugated iron roof sheeting (measured on flat)	m <sup>2</sup>	1593		
		.06 On gates, grilles, burglar screens, balustrades, etc	m <sup>2</sup>	82		
		.07 On louvres	m <sup>2</sup>	29		
		.08 On roller shutter garage doors	m <sup>2</sup>	119		
		.09 On downpipes	m	414		
		.10 To steel built-in cupboards 313 x 1872mm high	number	1		
		.05 Wood:				
		.01 Three coats of clear varnish				
		.01 On doors	m <sup>2</sup>	927		
		.02 On doors frames	m <sup>2</sup>	2		
		.03 On skirtings, rails, etc not exceeding 300 mm girth	m	1604		
		.04 On timber built-in cupboards 313 x 1872mm high	number	10		
		.05 On timber built-in cupboards 313 x 2979mm high	number	10		
		.02 Two coats alkyd enamel paint on previously painted surfaces in good condition				
		.01 On 110mm Timber architraves	m	100		
		.06 Fibre Cement:				
		.01 One coat prime universal undercoat and finish with two coats super acrylic exterior paint				
		.01 On fibre cement prefabricated walls	m <sup>2</sup>	738		
	<b>TOTAL: SCHEDULE 2.1: INSTALLATION CR1: STRUCTURAL AND BUILDING - CARRIED TO SUMMARY</b>					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 2.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PAA 05.01.02	300.00	<b><u>PLUMBING, DRAINAGE AND WET SERVICES</u></b>				
	301.00	<b><u>DETAIL WORK</u></b>				
PAA 05.02 PAA.03	301.01	Isolation, stripping, dismantling and removal of existing brassware, sanitary ware and piping:				
		.01 Showers:				
		.01 Shower rose and taps	number	30		
		.02 Chrome shower grating and waste trap	number	30		
		.02 Wash hand basins:				
		.01 Hand wash basin	number	60		
		.03 Water closets (WC):				
		.01 Vitreous china WC pan	number	60		
PAA.05	301.02	<b>Supply and installation of sanitary ware and brassware:</b>				
		.01 Shower				
		.01 60mm Shower base trap plus chromium plated drain cover	number	60		
		.02 Traps, valves, etc.				
		.01 10 x 15mm Angle valve	number	60		
		.02 15mm Ball-o-stop	number	60		
PAA.07	301.03	<b>Supply and installation of domestic water piping installation:</b>				
		.01 Copper pipping Class 0 SANS 460 capillary soldered type joints for cold-water piping installed in voids inclusive of bracketing:				
		.01 22mm Diameter pipes including fittings	m	80		
Carried forward						

## SCHEDULE NO 2.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
PAA.10	301.04	Servicing, cleaning and repair of sanitary ware:					
		.01 Unblock sanitary fittings, drains, etc and					
		.01 Water closets, wash hand basins, sinks, etc	number	170			
		.02 Shower drains	number	11			
	1400,00	WET SERVICES					
	1400,01	Allowance to repair of geysers and water pumps					
	1400.01.01	Kopfontein operational and residential areas:					
		01	Replace Non return valve	No	15		
		02	Replace expansion relief valves	No	15		
		03	Replace ball valve	No	29		
		04	Replace element	No	29		
		05	Replace drain cock	No	29		
		06	Replace thermostat	No	29		
		07	Replace coper pipe	m	120		
		08	Replace galvanised pipe	m	120		
		09	Replace seals	No	29		
		10	Replace bearings	No	2		
		11	Replace shaft	No	1		
		12	Replace motor 1.1kW	No	1		
	13	Replace motor 0.75kW	No	1			
	1400.01.02	Swartkopfontein operational and residential areas:					
		01	Replace Non return valve	No	10		
		02	Replace expansion relief valves	No	10		
		03	Replace ball valve	No	10		
Carried forward							

## SCHEDULE NO 2.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		04 Replace element	No	29		
		05 Replace drain cock	No	29		
		06 Replace thermostat	No	29		
		07 Replace coper pipe	m	29		
		08 Replace galvanised pipe	m	29		
		09 Replace seals	No	29		
	<b>1400.01.03</b>	<b>Derdepoort operational and residential areas:</b>				
		01 Replace Non return valve	No	10		
		02 Replace expansion relief valves	No	10		
		03 Replace ball valve	No	10		
		04 Replace element	No	15		
		05 Replace drain cock	No	15		
		06 Replace thermostat	No	15		
		07 Replace coper pipe	m	15		
		08 Replace galvanised pipe	m	15		
		09 Replace seals	No	15		
	<b>1400,02</b>	<b>Allowance to replace geysers and water pumps</b>				
		<b>Kopfontein operational and residential</b>				
		01 100 litre electric geyser	No	2		
		02 150 litre electric geyser	No	5		
	<b>1400.02.02</b>	<b>Swartkopfontein operational and residential areas:</b>				
		01 150 litre electric geyser	No	5		
	<b>1400.02.03</b>	<b>Derdepoort operational and residential areas:</b>				
		01 100 litre electric geyser	No	2		
		02 150 litre electric geyser	No	3		
	<b>TOTAL:</b>	<b>SCHEDULE NO 2.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 2.3: INSTALLATION CR3 FENCING, CLEANING AND SITE KEEPING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	300,00	<b><u>FENCING, CLEANING AND SITE KEEPING</u></b>				
		<b><u>SOLID WASTE MANAGEMENT</u></b>				
CG06.05	300,01	<b>Supply of waste bins:</b>				
		.01 Square black 240 litre waste bins	number	6,00		
		.02 Round black 90 litre waste bin	number	12,00		
CG06.07	300,02	<b>Overhaul on material for haul in excess of</b>	m <sup>3</sup> .km	100,00		
		<b><u>SITE MAINTENANCE</u></b>				
CG06.02	300,03	<b>Levelling of site</b>	m <sup>2</sup>	500,00		
CG06.02	300,04	<b>Importation of fill material</b>	m <sup>3</sup>	125,00		
SAN 1200 C 8.2.2	300,03	.01 Removal and grubbing of large trees and tree stumps of girth:				
		.01 over 1.0 m and up to and including 2.0 m	number	1,00		
		.02 over 2.0 m and up to and including 3.0 m	number	1,00		
SANS 1200 ME 8.3.2	300,05	<b><u>BACKFILLING AGAINST STRUCTURES</u></b>				
		.01 Importing, placing and compacting G7 material in layers of 150 mm from commercial sources or from borrow pits to 95% MOD AASHTO density	m <sup>3</sup>	100,00		
CC.02	300,06	<b>Supply and erection of new fencing to replace old material:</b>				
		.01 50 mm x 50 mm x 2.5 mm diamond mesh fence:				
		.01 1.2 m diamond mesh fence	m	900,00		
		.02 65 mmø Stay for 1.2 m post	number	30,00		
Carried forward						

## SCHEDULE NO 2.3: INSTALLATION CR3 FENCING, CLEANING AND SITE KEEPING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CC.03	300,05	.03 4.0 mm thick fully galvanized straining wire	m	900,00		
		<b><u>REPAIR OF FENCES</u></b>				
CC.03		.01 Repair of wire and mesh fences less than 1.3 m high	m	1 200,00		
		.02 Repair of wire and mesh fences between 1.3 m and 2.0 m high	m	250,00		
		.03 Repair of wire and mesh fences between 2.0 m and 3.0 m high	m	250,00		
CC.04	300,07	<b><u>REDRESS, TREAT AND PAINTING OF FENCE</u></b>				
		.01 Redress, treat and paint fences less than 1.3 m high	m	2 900,00		
		.02 Redress, treat and paint fences between 1.3 m and 2.0 m high	m	5 100,00		
		.03 Redress, treat and paint fences between and 3.0 m high	m	300,00		
CC.05	300,08	<b><u>TREATING AND PAINTING OF POSTS AND STANDARDS</u></b>				
		.01 Treating and painting of tubular posts:				
		.01 less than 1.3 m high	number	940,00		
		.02 between 1.3 m and 2.0 m high	number	1 650,00		
		.03 between 2.0 m and 3.0 m high	number	100,00		
CC.06	300,09	<b><u>REPAIR, RE-FIXING, PAINTING AND GATES</u></b>				
		.01 Repair, refix and align single or double gates up to 1.3 m high and up to 3.0 m	number	5,00		
		.02 Repair, refix and align single or double gates between 1.3 m and 2.0 m high and up to 9.0 m wide	number	4,00		
		.03 Repair, refix and align single or double gates between 2.0 m and 3.0 m high and up to 9.0 m wide	number	4,00		
		.04 Repair, refix and align sliding gates up to 3.0 m high and up to 15.0 m wide guide rail	number	4,00		
Carried forward						



## SCHEDULE NO 2.3: INSTALLATION CR3 FENCING, CLEANING AND SITE KEEPING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SANS 8.3.5</b>	<b>300,10</b>	<b>Site welding:</b>  .01 50 mmø gate frame	m	2,00		
<b>SANS 1200 ME 8.3.2</b>	<b>300,11</b>	<b><u>BACKFILLING FOR FENCING</u></b>  .01 Importing, placing and compacting approved G6 material in layers of 150 mm from commercial sources or from borrow pits to 95% MOD AASHTO density	m³	100,00		
<b>SANS 1200 G 8.2.8</b>	<b>300,12</b>	<b><u>SITE STRUCTURAL WORKS</u></b>  <b>Demolish and remove structures/ buildings:</b>  .01 100 mm thick concrete slab	m²	50,00		
<b>SANS 1200 G 8.2.1</b>	<b>300,13</b>	<b>Rough:</b>  .01 Vertical formwork to:  .01 Walkways	m²	25,00		
<b>8.3.1</b>	<b>300,14</b>	<b>High-tensile welded mesh in the following:</b>  .01 Mesh ref 193	m²	50,00		
<b>8.4.3</b>	<b>300,15</b>	<b>Strength concrete:</b>  .01 Class 25 MPa/19 mm in slabs and walkways  .02 Class 25 MPa in retaining wall	m³  m³	5,00  5,00		
<b>8.4.2</b>	<b>300,16</b>	<b>Blinding layer:</b>  .01 Class 15 MPa/19 mm concrete of:  .01 50 mm thickness	m²	32,00		
<b>8.4.4</b>	<b>300,17</b>	<b>Unformed surface finishes:</b>  .01 Wood-floated finishes to:  .01 Slabs and walkways	m²	50,00		
Carried forward						

## SCHEDULE NO 2.3: INSTALLATION CR3 FENCING, CLEANING AND SITE KEEPING

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
8.5	300,18	<b>Joints:</b> .01 Construction joints as detailed in specification BK03 .01 Walkways and slabs .02 Saw joints as detailed in specification BK03 .01 Walkways and slabs	m	12,00		
8.11	300,19	<b>Brickwork:</b> .01 Brickwork to match existing at Derdepoort Port of Entry	m <sup>2</sup>	250,00		
<b><u>LAUNDRY LINES</u></b>						
CC.02	300,20	<b>Supply and erection of new fencing old material:</b> .01 4.0 mm thick fully galvanized straining	m	450,00		
	<b>TOTAL:</b>	<b>SCHEDULE 2.3: INSTALLATION CR3: FENCING, CLEANING AND SITE KEEPING - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

## KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 2.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEM AND EXTERNAL WATER RETICULATION

## CIVIL REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	400,00	<b><u>BULK WATER SUPPLY SYSTEMS AND WATER NETWORKS</u></b>				
CE08.01.01	400,01	Repair of existing pipelines:				
		.01 110 mmø HDPE pipe	m	100,00		
CE08.01.02	400,02	Provision of materials:				
		.01 110 mmø HDPE pipes including coupling fittings	m	100,00		
		<b><u>BURYING OF PIPES INSTALLED WITH INSUFFICIENT COVER</u></b>				
SANS 1200 L 8.2.1	400,03	Supply, lay and bed pipes complete with couplings, including testing:				
		.01 32 mmø HDPE PE 100 Class 10 pipe, jointed with Plasson high compression fittings	m	100,00		
SANS 1200 DB 8.3.2	400,04	<b><u>EXCAVATIONS</u></b> Excavate in all materials for trenches, backfill, compact, and dispose of surplus unsuitable material, for the following total trench depths:				
		.01 not exceeding 1.0 m deep x 600 mm wide	m³	24,00		
		.02 Extra-over sub-item .01 for:				
		.01 intermediate excavation	m³	30,00		
		.02 Hard rock excavation	m³	10,00		
		.03 Excavation ancillaries				
		.01 Compaction in road reserves	m³	40,00		
Carried forward						

**SCHEDULE NO 2.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEM AND EXTERNAL WATER RETICULATION**

**CIVIL REPAIR WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SANS 1200 LB</b>	<b>400,05</b>	<b>Provision of bedding from trench excavations:</b>				
<b>8.2.1</b>		.01 300 mm x 600 mm bedding of selected granular material	m <sup>3</sup>	3,00		
<b>8.2.2</b>	<b>400,06</b>	<b>Supply only of bedding from borrow pits:</b>				
		.01 300 mm x 600 mm bedding of selected granular material	m <sup>3</sup>	3,00		
		<b><u>BULK WATER SUPPLY</u></b>				
<b>CE.05.02</b>	<b>400,07</b>	<b>Cleaning of existing manholes, chambers other structures:</b>				
		.01 Manholes, valve chambers, etc.	number	20,00		
		<b><u>BOREHOLE PUMP SYSTEMS</u></b>				
<b>DA08.01</b>	<b>400,08</b>	<b>Pump testing of boreholes</b>				
		.01 Swartkopfontein Port of Entry	number	2,00		
		<b>Extra over DA08.01 for:</b>				
		.01 The removal of existing equipment	number	2,00		
		.02 Installation of temporary pumps	number	2,00		
		.03 Ground-water sampling	number	2,00		
		.04 Compilation of borehole report	number	2,00		
		.05 Standing time	day	2,00		
		.06 Interhole moves	number	2,00		
		.07 Reinstallation of existing pumping equipment	number	2,00		
<b>DA08.02.05</b>	<b>400,09</b>	<b>Painting of exposed pipework</b>	m	100,00		
		<b><u>REPAIR/REPLACEMENT OF ELECTRICAL EQUIPMENT</u></b>				
<b>DA08.03.01</b>	<b>400,10</b>	<b>Detailed inspection and testing of components</b>	number	2,00		
<b>DA08.03.06</b>	<b>400,11</b>	<b>Servicing of submersible borehole pumps</b>				
		.01 Kopfontein Port of Entry	number	2,00		
Carried forward						

**SCHEDULE NO 2.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEM AND EXTERNAL WATER RETICULATION**
**CIVIL REPAIR WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>FN.11</b>	<b>400,12</b>	<b>WATER DISTRIBUTION NETWORKS</b>				
		<b>General: Pump and Equipment</b>				
<b>FN.11.02</b>		.01 Detailed inspection and testing of components	number	2,00		
<b>FN.11.05</b>		.02 Repair of Pumping Equipment	number	2,00		
<b>FN.11.02</b>		.03 Commissioning	number	2,00		
<b>FN.11.04</b>		.04 Reconditioning of pumping equipment				
		.01 Pumps and electrical motors at purification works (Speck BHS 1.1 kW)	number	2,00		
<b>FN.11.02</b>		.05 Installation, testing and commissioning of pumping equipment purification works (Speck BHS 1.1 kW)	number	2,00		
		<b><u>REPAIR OF MANHOLE COVERS</u></b>				
<b>CE.05.01</b>	<b>400,13</b>	<b>Demolition and removal of damaged structures</b>				
		.01 Reinforced concrete	m³	1,00		
<b>CE.05.03</b>	<b>400,14</b>	<b>Overhaul on material for haul in excess of 1.0 km</b>				
		.01 Existing structures demolished	m³	1,00		
<b>CE.05.04</b>	<b>400,15</b>	<b>Repair of structures</b>				
		.01 Class 25 MPa/19 mm for manhole cover	m³	2,00		
	<b>TOTAL:</b>	<b>SCHEDULE 2.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEM AND EXTERNAL WATER RETICULATION - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

## KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 2.5: INSTALLATION CR5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SANS 1200DB 8.3.2	500,00	<b><u>WASTEWATER AND SEWER NETWORKS</u></b>				
		<b><u>EXTENSION OF SEWER PIPLINE</u></b>				
SANS 1200LB 8.2.1	500,01	<b>Excavate in all materials for trenches, backfill, compact and dispose of surplus material:</b>				
		.01 Pipes up to 125 mm dia for depths:				
		.01 Up to 1,0 m	m	400,00		
SANS 1200LD 8.2.1	500,02	<b>Provision of bedding from trench excavations:</b>				
		.01 Selected granular material	m <sup>3</sup>	50,00		
		.02 Selected fill material	m <sup>3</sup>	50,00		
SANS 1200LD 8.2.1	500,03	<b>Supply, lay, joint, bed on class B bedding and test pipeline:</b>				
		.01 Class 34/400 kPa uPVC pipes:				
		.01 ø110 mm	m	200,00		
CA.01.04.03	500,04	<b>Connecting to existing sewer</b>	Sum	1		
SANS 1200C		<b><u>CONVERSION OF SEWER LIFTING STATION TO MANHOLE</u></b>				
8.2.8	500,05	<b>Demolish and remove structures/ buildings:</b>				
		.01 Excavate and remove old sewer lifting station	Sum	1		
SANS 1200LD 8.2.3	500,06	<b>Precast concrete manhole:</b>				
		.01 With concrete cover and slab:				
		.01 Depth 1,5 m up to 2,0 m	number	1		
Carried forward						

## SCHEDULE NO 2.5: INSTALLATION CR5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CF.08.02	500,07	<b>Cleaning of sewage network:</b>  .01 Mechanical cleaning of sewer pipes and structures with internal diameters of:  .01 Up to 150 mm  .02 Chemical cleaning of sewer pipes and structures with internal diameters of:  .01 Up to 150 mm	m     m	300,00     200,00		
EG.06	500,08	<b><u>SEPTIC TANKS</u></b>  .01 Desludge and general repair of every six months  .02 Rehabilitation of french drain system	number  number	6,00  1,00		
EA.04	500,09	<b><u>INSTALLATION, TESTING AND COMMISSIONING SCREENING EQUIPMENT</u></b>  .01 Replace broken/eroded chamber cover stands	number	3,00		
SANS 1200 DA 8.3.2	500,10	<b><u>EXCAVATION AND MATERIAL</u></b> <b>Excavation, bedding and backfill</b>  <b>Manholes:</b>  .01 Excavations, bedding and backfilling:  .01 Excavate in all materials	m <sup>3</sup>	10,00		
8.3.4	500,11	.02 Backfilling and compacting to 93% modified AASHTO density with selected material	m <sup>3</sup>	10,00		
EG.07.04	500,12	<b>French drains constructed according to SANS 10400-PP10:</b>  .01 Soak test	number	3,00		
Carried forward						

## SCHEDULE NO 2.5: INSTALLATION CR5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
EA.01	500,13	<b><u>WASTEWATER INLET WORKS/CHAMBERS/ SEPTIC TANK</u></b>  Service and reinstallation of flow sensor equipment  .01 Installation, testing and commissioning of flow sensor equipment	sum	3,00		
EA.03	500,14	Painting and corrosion protection to withstand wastewater corrosive conditions	sum	1,00		
EA.04	500,15	Procurement and replacement of all hinges and cover plates	sum	1,00		
		<b><u>WASTEWATER PUMP SYSTEM/STATION</u></b>				
EB.06	500,16	Servicing of pumping equipment	number	4,00		
EB.09	500,17	Painting and corrosion protection to withstand wastewater corrosive conditions	sum	1,00		
	500,18	Supply and install new pumping equipment	Sum	4,00		
	500,19	Supply and install new pumping				
		<b><u>WASTEWATER TREATMENT PLANT</u></b>  Installation of new 120m3/day Clearfox SBR Technology Package wastewater treatment plant at Kopfontein LPOE; includes concrete tanks to fit the following 1x71m3 tank as pre-chamber, 1x53m3 buffer, 1x140m3 tank as biological reactor, 1x60m3 chlorine contact tank, 1x 10m3 clearwater pump station, 1x technic Room	Prov Sum	1,00	R 4 300 000,00	R 4 300 000,00
		Charge required by Contractor on sub item above	%	R 4 300 000,00		
	<b>TOTAL: SCHEDULE 2.5: INSTALLATION CR5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS - CARRIED TO SUMMARY</b>					



## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 2.6: INSTALLATION CR6: ROADS AND STORMWATER DRAINAGE

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>600</b>	<b><u>ROADS AND STORMWATER DRAINAGE</u></b>				
<b>CA.03.01</b>	<b>600,01</b>	<b>Pavement layers and asphalt surface repair:</b>				
		.01 Excavation in existing pavements for patching	m <sup>3</sup>	2,00		
<b>COLTO 16.02</b>	<b>600,02</b>					
	<b>600,03</b>	.02 Overhaul on material hauled in excess of 1.0 km (ordinary overhaul)	m <sup>3</sup> -km	250,00		
<b>COLTO 39.01</b>	<b>600,04</b>					
	<b>600,05</b>	.03 Sawing or cutting asphalt or cemented				
		.01 Cutting asphalt using a mechanical sawing machine	m	24,00		
<b>CA.03.02</b>	<b>600,06</b>	<b>Surface treatment of surfaced roads:</b>				
		.01 Trimming the edges and edge breaks of the existing surfacing	m	70,00		
		.02 Pothole repair using cold-mix continuously graded asphalt (transport measured under overhaul)	t	2,00		
<b>CA.04.06</b>	<b>600,07</b>	<b>Cleaning of cracks with compressed air</b>	km	1,00		
<b>CA.04.07</b>	<b>600,08</b>	<b>Applying bituminous binders and herbicides for sealing cracks:</b>				
		.01 Anionic stable-grade emulsion mixed with synthetic modifiers	litre	20,00		
		.02 Coarse grade slurry mixed in concrete mixer and applied by hand	m <sup>3</sup>	1,00		
<b>COLTO</b>	<b>600,09</b>	<b>Single seals:</b>				
<b>44.01</b>		.01 Single seals (grade I aggregate) using 9,5	m <sup>2</sup>	24,00		
<b>44.02</b>		.02 Bituminous binder variations:				
		.01 Road grade B8 (80/100 pen grade) bitumen	l	24,00		
		.03 Aggregate variations:				
Carried forward						

## SCHEDULE NO 2.6: INSTALLATION CR6: ROADS AND STORMWATER DRAINAGE

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
4.4.04		.01 9,5 mm aggregate	m <sup>3</sup>	5,00		
		.04 Application of fog spray:				
		.01 30% spray-grade emulsion	l	24,00		
44.05		.05 Pre-coating the aggregate at a rate of 12 litre/m <sup>3</sup> (bitumen-based pre-coating fluid)	m <sup>3</sup>	2,00		
CA.01	600,10	<b>Repair of gravel wearing course,gravel shoulders and paving:</b>				
		.01 Backfilling and reinstatement of pavement layers				
		.01 Selected layers compacted to 93% of modified AASHTO density	m <sup>3</sup>	3,00		
		.02 Cement stabilized subbase layers compacted to 95% of modified AASHTO density with 4% cement	m <sup>3</sup>	3,00		
		.03 Cement stabilized base layers compacted to 97% modified AASHTO density with 4% cement	m <sup>3</sup>	3,00		
		.02 Cast in situ concrete and formwork in edge beams, intermediate beams and kerbing:				
		.01 Class 30 MPa concrete	m <sup>3</sup>	80,00		
		.03 Steel reinforcement in edge beams, intermediate beams and kerbing:				
		.01 Mild steel bars	t	1,00		
		.02 High-tensile steel bars	t	1,00		
		.04 Concrete block paving:				
		.01 SABS approved 80mm, Class 35 MPa interlocking grey concrete paving blocks for areas carrying mainly vehicular traffic	m <sup>2</sup>	25,00		
		.02 SABS approved 80mm, Class 35 Mpa interlocking grey concrete paving blocks for areas carrying pedestrian traffic only	m <sup>2</sup>	10,00		
Carried forward						

## SCHEDULE NO 2.6: INSTALLATION CR6: ROADS AND STORMWATER DRAINAGE

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CA.06	600,11	Repair of existing concrete block paving:				
		.01 Removal of existing concrete block paving from site	m²	6,00		
		.02 Reinstall existing concrete block paving	m²	6,00		
		.03 Breakout, hack-off and remove existing concrete edge beams and stormwater structures	m³	5,00		
CA.06	600,12	Repair of kerbing				
		.01 Patching of kerbs	m	5,00		
		.02 Reinstalling pre-cast kerbs	m	5,00		
		.03 Replacing of kerbs				
		.01 Mountable kerbs similar to existing	m	6,00		
		.02 Barrier kerbs similar to existing undamaged barrier kerbs	m	12,00		
<u>ROAD TRAFFIC SIGNS AND ROAD MARKINGS</u>						
CA.07	600,13	Erection and repair of road traffic signs and traffic-control devices				
		.01 Erection or reinstatement of road sign boards				
		.01 Area not exceeding 2.0 m²	m²	2,00		
		.02 Area exceeding 2.0 m²	m²	3,00		
CA.07.10		.02 Supply and installation of sign boards:				
		.01 1.2mm thick non reflective, full colour, signs with baked silicone polyester enamel paint consisting 4 - 6 micron (DFT) primer and 18 - 22 micron (DFT) final coat mounted in buildings or to entrances of buildings	m²	5,00		
Carried forward						

## SCHEDULE NO 2.6: INSTALLATION CR6: ROADS AND STORMWATER DRAINAGE

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
CA.09	600,14	.02 1.4mm thick non reflective, full colour, signs with baked silicone polyester enamel paint consisting 4 - 6 micron (DFT) primer and 18 - 22 micron (DFT) final coat mounted on frames in open areas	m²	5,00			
		.03 1.4mm thick pre-painted galvanised steel road signs less than 1.5m²	m²	5,00			
		.03 Road sign supports (overhead road sign					
		.01 Steel tubing of 76 mmø and 3.0 mm	m	5,00			
		.04 Excavation and backfilling for road sign	m³	3,00			
		.05 Extra over item CA.07.03 for cement-	m³	3,00			
		.06 Repair of road sign faces	m²	2,00			
CA.07	600,15	<b>Chemical Control of Vegetation &amp; Eradiction of Undesired Vegetation</b>					
		.01 Chemical control of vegetation (the	m²	3 000,00			
		.02 Eradication of undesirable vegetation (The	m²	200,00			
CA.08	600,16	<b>Supply and installation of sign boards:</b>					
		.01 Repair of road sign faces	m²	50,00			
		<b>Road markings:</b>					
		.01 Retro-reflective roadmarking paint:					
		.01 Longitudinal lines:					
		.01 White lines (broken or unbroken) - 100 mm width	m	2 000,00			
		.02 Yellow lines (broken or unbroken) - 100 mm width	m	2 000,00			
.02 Transverse lines and other markings:							
.01 Broken or unbroken lines, white, red or yellow	m²	200,00					
.02 Lettering and symbols, white, red or yellow, repainting existing markings	m²	100,00					
.03 Traffic island markings, white or yellow repainting existing markings	m²	200,00					
Carried forward							

## SCHEDULE NO 2.6: INSTALLATION CR6: ROADS AND STORMWATER DRAINAGE

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CA.10	600,17	.02 Setting out and pre-marking of lines	km	17,00		
		.03 Painting of concrete kerbs by hand using	m <sup>2</sup>	150,00		
		<b>Remounting of D-Shape rubber loading dock bumper</b>	number	1,00		
CA.11	600,18	<b>Supply and install Armco QuadGuard crash cushion 'cartridge</b>	number	2,00		
<b><u>STORMWATER DRAINAGE</u></b>						
CB.04	600,19	<b>Cleaning of concrete drains and channels</b>				
		.01 Remove of dispose of material from				
		.01 Drains and channels within the following invert with ranges				
		.01 Less than 1.0 m	m	100,00		
		.02 1.0 m up to and including 2,0 m	m	20,00		
		.02 Overhaul on material for hual in excess of 1.0 km	m <sup>3</sup> .km	20,00		
CB.02	600,20	<b>Cleaning of prefabricated culverts</b>				
		.01 Cleaning of prefabricated culverts and inlet structures (average depth of material removed not more than 100mm)				
		.01 Prefabricated concrete pipes and portal culverts with maximum cross-sectional dimension of				
		.01 Up to and including 500 mm	m	300,00		
		.02 501 mm to 750 mm	m	100,00		
CB.03	600,21	<b>REPAIR AND CONSTRUCTION OF CONCRETE CHANNELS</b>				
		.01 Excavation in				
		.01 Soft Material	m <sup>3</sup>	2,00		
		.02 Hand Material	m <sup>3</sup>	2,00		
		.02 Cast in situ concrete				
		.01 Class 30 concrete	m <sup>3</sup>	3,00		
Carried forward						

## SCHEDULE NO 2.6: INSTALLATION CR6: ROADS AND STORMWATER DRAINAGE

CIVIL REPAIR  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		.02 Backfill below channels	m <sup>3</sup>	2,00		
		.03 Steel reinforcement				
		.01 Welded steel mech ref. 193	kg	200,00		
		.04 Demolition and removal of damaged existing structures				
		.01 Plain concrete	m <sup>3</sup>	3,00		
		.02 Reinforced concrete	m <sup>3</sup>	2,00		
		.05 Overhaul on material for hual in excess of 1,0 km				
		.01 Excavated material to spoil	m <sup>3</sup> .km	3,00		
		.02 Existing structures demolished	m <sup>3</sup> .km	3,00		
		<b><u>CLEANING AND MAINTENANCE OF EXISTING EARTH CHANNELS</u></b>				
CB.05.01	600,22	Cleaning earth drains and channels	m <sup>3</sup>	23,00		
CB.05.02	600,23	Repairing of earth drains and channels	m <sup>3</sup>	40,00		
CB.05.04	600,24	Cleaning of vegetation at inlet and outlet structures (5 m x 5 m)	m <sup>2</sup>	200,00		
CB.05.05	600,25	Overhaul on material for hual in excess of 1.0 km	m <sup>3</sup> .km	21,00		
	<b>TOTAL: SCHEDULE 2.6: INSTALLATION CR6: ROADS AND STORMWATER DRAINAGE - CARRIED TO SUMMARY</b>					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE  
AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SUMMARY OF SCHEDULE OF QUANTITIES: ELECTRICAL REPAIR WORK

## TENDER

KOPFONTEIN AND DERDEPOORT

Schedule No.	3.1	Installation ER1	Buildng Electrical	R
Schedule No.	3.2	Installation ER2	Stanby Power Systems	R
Schedule No.	3.3	Installation ER3	External Lighting	R

SWARTKOPFONTEIN

Schedule No.	3.4	Installation ER4	Buildng Electrical	R
Schedule No.	3.5	Installation ER5	Stanby Power Systems	R
Schedule No.	3.6	Installation ER6	External Lighting	R

---

TOTAL OF BILL OF QUANTITIES: ELECTRICAL REPAIR WORK  
CARRIED TO CALCULATION OF TENDER SUM

---

R

SIGNED ON BEHALF OF THE TENDERER:

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
AB 10.02.01	1800,00	REPAIR AND SERVICE ELECTRICAL				
		KOPFONTEIN				
		Service Distribution Board:				
		.01 Floor standing kiosks and metering boxes	No	4		
		.02 Domestic single phase (+/- 500x600mm)	No	15		
		.03 Domestic single phase (+/- 450 x 400mm)	No	10		
		.04 Surface mounted DB (+/- 500 x 600mm)	No	10		
AB 10.02.01	1800,01	DERDEPOORT				
		Service Distribution Board:				
		.01 Floor standing kiosks and metering boxes	No	2		
		.02 Domestic single phase (+/- 500x600mm)	No	8		
		.03 Surface mounted DB (+/- 500 x 600mm)	No	6		
		.04 Surface mounted DB (+/- 250 x 250mm)	No	5		
		AB.01.20	1800,02	Supply Marker kit and labelling of all distribution boards, electrical equipment, cables and wiring, with the required information, including face plates on bodies of light switches, socket outlets and isolators by means of engraved or embossed labelling as well as typed legend cards showing all the equipment inside distribution boards/ boxes.	sum	1
Carried forward						



## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.01.15	1800,07	<b>Supply and install faulty contactors:</b>				
		.01 20-100A, double pole 200V	No	1		
		.02 30-60A, 3 pole 600V	No	1		
AB.01.16	1800,08	<b>Supply and install faulty switching timers:</b>				
		.01 Electronic QAT-R-type time switch with 24hr time reserve 20A-240V	No	1		
		.02 Electronic QAT-R-type time switch with 24hr time reserve 60A-240V	No	1		
AB.01.17	1800,09	<b>Supply and install faulty earth leakage units (SANS approved):</b>				
		.01 60-80A, 6kA double pole-25mA - 240V	No	4		
		.04 40-100A, 6kA 3 pole-30mA - 600V	No	1		
AB.01.18	1800,10	<b>Supply and install faulty fuses for lightning protection for electronic equipment (to SANS approved).</b>				
		.01 Fuse holder DF PMF type 10x38, 32A, 690V or equivalent	No	1		
		.02 Fuses to fit in the fuse holders, 15A-125A 1.5kV	No	1		
AB.01.19	1800,11	<b>Supply and install faulty Surge Arrestors- Din Rail Mounted Surge Protection Devices:</b>				
		.01 3 pole and neutral 275V 15kA with indication	No	2		
AB.01.11	1800,12	<b>Supply and install earth continuity conductor:</b>				
		.01 70 mm <sup>2</sup> BCEW	m	10		
		.02 70 mm <sup>2</sup> copper clad earthing conductor	m	10		
AB.01.12	1800,13	<b>Termination earth continuity conductor:</b>				
		.01 70 mm <sup>2</sup> BCEW	No	5		
		.02 70 mm <sup>2</sup> copper clad earthing conductor	No	5		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.01	1802,00	<b><u>LIGHTING INSTALLATION.</u></b>				
	1802,01	<b>Re-lamp and clean diffuser of luminaire</b>				
	.01	58W Fluorescent	No	4		
	.02	36W x 4 x recessed Fluorescent	No	4		
	.03	18W CFL lamp	No	2		
	.04	70W HPS lamp	No	2		
	.05	PL9 W	No	4		
	.06	16W/E27	No	4		
AB.02.02	1802,02	<b>Service Luminaire</b>				
	.01	2 x 58W SABS open channel fluorescent luminaire- similar to Voltex lighting type: R1/T-258 SS	No	25		
	.02	2 x 36W SABS open channel fluorescent luminaire- similar to Voltex lighting type: R1/T-236 SS	No	20		
AB.02.02	1802,02	.03 1 x 58W SABS open channel fluorescent luminaire- similar to Voltex lighting type: R1/T-158 SS	No	10		
		.04 1 x 36W SABS open channel fluorescent luminaire- similar to Voltex lighting type: R1/T-136 SS	No	10		
		.05 2 x 58 SABS IP 55 fluorescent luminaire- similar to Voltex lighting type: c2-258ss with watertight diffuser	No	20		
		.06 4x 36W recessed mounted fluorescent luminaire with single parabolic reflector	No	10		
		.08 2x 18W recessed mounted fluorescent luminaire with single parabolic reflector	No	10		
		.09 4x 18W recessed mounted fluorescent luminaire with single parabolic reflector	No	10		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.02	1802,02	.10 2x 58W surface mounted fluorescent luminaire with single parabolic reflector	No	6		
		.11 70W HPS B40. Britelite wall mounted bulkhead luminaire: similar to Voltex lighting type B40-70W HPS	No	20		
		.12 Bulkhead luminaire- similar to Voltex lighting type: B10 with 2xPL9 Lamps	No	10		
		.13 Bulkhead luminaire- similar to Voltex lighting type: B10 with 21W similar to Dulux el eco lamp	No	10		
		.14 Decorative round bulkhead-radiant type: WT2A	No	2		
		.15 250W HPS floodlight luminaire: similar to Voltex lighting type: I14st-250 HPS	No	2		
		.16 250W MV low bay down lighter similar to Beka type: similar to Bekatec 250W HPS	No	2		
		.17 400W MV SABS approved high bay luminaire with auto light similar or equal to similar to Beka bay	No	21		
		.18 Bowl type IP55 bathroom fitting with ceramic lamp holder with similar to Dulux el eco 21W/E27 lamp	No	25		
		.19 Décore round cheese bulkhead 250 mm glass bowlilm type: Dec/rnd/chs/250 with 21 W similar to Dulux el eco lamp	No	10		
		.20 Wall mounted décor spot light ILM type: ACC/spt/100	No	1		
		.21 Ceiling mounted 3 light decorative luminaire with glass cups and similar to Dulux el eco 21W/E27 lamps	No	10		
.22 Ceiling mounted 2 light decorative luminaire with glass cups and similar to Dulux el eco 21W/E27 lamps	No	10				
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.03	1802,03	.23 Ceiling mounted single light decorative luminaire with glass cups and similar to Dulux el eco 21W/E27 lamps	No	10		
		.24 Bulkhead luminaire- similar to Beka type series 30: with 2xPL9W CFL Lamps	No	10		
		.25 Ceiling fan with 1 x glass cups and 100W GLS lamps	No	6		
		.26 2 x PL26W down lighter similar to Voltex lighting type: CAS/s-2PL26	No	2		
		.27 21W down lighter similar to Voltex lighting type: CAS/s-21W	No	2		
		<b>Repair/Replace Luminaire with LED equivalent</b>				
AB.02.05		.01 2 x 58W SABS open channel fluorescent luminaire- similar to Voltex lighting type: R1/ 50W LED	No	10		
		.02 2 x 36W SABS open channel fluorescent luminaire- with to Voltex lighting type: R1 40W LED	No	15		
		.03 1 x 58W SABS open channel fluorescent luminaire- similar to Voltex lighting type: R1/40W LED IP 65	No	2		
		.04 1 x 36W SABS open channel fluorescent luminaire- similar to Voltex lighting type: R1/40W LED	No	2		
AB.02.03	1802,03	.05 2 x 58 SABS IP 55 fluorescent luminaire- similar to Voltex lighting type: c2-40W LED with watertight diffuser	No	2		
		.06 4x 36W recessed mounted fluorescent luminaire with single parabolic reflector replace with 80W LED panel	No	4		
		.07 4x 24W recessed mounted fluorescent luminaire with single parabolic reflector replace with 80W LED panel	No	4		
		.08 Bulkhead luminaire- similar to Voltex lighting type: B10 with 21W LED	No	30		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.03.08	1802,04	.09 Décore round cheese bulkhead 250 mm glass bowl type: Dec/rnd/chs/250 with 12 W LED lamp	No	10		
		.10 Ceiling mounted 3 light decorative luminaire with glass cups and similar to Dulux el eco 21W/E27 lamps	No	2		
		.11 Bulkhead luminaire- similar to Beka type series 30: with 1 x 15W LED Lamp	No	30		
AB.02.06		<b>Replace Luminaire diffuser, lens or glass cups:</b>				
		.01 2 x 58 SABS IP 55 fluorescent luminaire- similar to Voltex lighting type: c2-258ss with watertight diffuser	No	2		
		.02 4x 36W recessed mounted fluorescent luminaire with single parabolic reflector	No	6		
		.03 2x 36W recessed mounted fluorescent luminaire with single parabolic reflector	No	6		
		.04 2x 18W recessed mounted fluorescent luminaire with single parabolic reflector	No	2		
		.05 2x 58W surface mounted fluorescent luminaire with single parabolic reflector	No	6		
		.06 70W HPS B40. Britelite wall mounted bulkhead luminaire:similar to Voltex lighting type B40-70W HPS	No	2		
		.07 Bulkhead luminaire- similar to Voltex lighting type: B10 with 2xPL9 Lamps	No	1		
		.08 Bulkhead luminaire- similar to Voltex lighting type: B10 with 21W similar to Dulux el eco lamp	No	1		
		.09 Decorative round bulkhead-radiant type: WT2A	No	1		
		.10 250W HPS floodlight luminaire: similar to Voltex lighting type: I14st-250 HPS	No	1		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.06	1802,04	.11 Bowl type IP55 bathroom fitting with ceramic lamp holder with similar to Dulux el eco 21W/E27 lamp	No	4		
AB.03.04		.12 Décore round cheese bulkhead 250 mm glass bowl type: Dec/rnd/chs/250 with 21 W similar to Dulux el eco lamp	No	1		
		.13 Ceiling mounted 3 light decorative luminaire with glass cups and similar to Dulux el eco 21W/E27 lamps	No	1		
		.14 Ceiling mounted 2 light decorative luminaire with glass cups and similar to Dulux el eco 21W/E27 lamps	No	1		
		.15 Ceiling mounted single light decorative luminaire with glass cups and similar to Dulux el eco 21W/E27 lamps	No	1		
		.16 Bulkhead luminaire- similar to Beka type series 30: with 2xPL9W CFL Lamps	No	1		
		.17 Ceiling fan with 1 x glass cups and 100W GLS lamps	No	1		
AB.02.10	1802,05	<b>Replace Luminaire internal components:</b>				
		.01 Choke and capacitor for 36W Fluorescent	No	2		
		.02 Choke and capacitor for 58W Fluorescent	No	2		
		.03 Choke and capacitor for 18W Fluorescent	No	2		
		.04 Fluorescent lamp starter	No	10		
		.05 Control gear for 70W HPS B40. Britelite wall mounted bulkhead luminaire: similar to Voltex lighting type: B40-70W HPS	No	2		
		.06 Control gear for bulkhead luminaire: similar to Voltex lighting type: B10 with 2xPL9 lamps	No	2		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.10	1802,05	.07 Control gear for bulkhead luminaire: similar to Voltex lighting type: B10 with 21W similar to Dulux el eco lamp	No	2		
		.08 Control gear for 250W HPS floodlight luminaire: similar to Voltex lighting type: I14st-250 HPS	No	2		
		.09 Control gear for 250W MV low bay down lighter: similar to Beka type: similar to Bekatec 250W HPS	No	2		
		.10 Control gear for 400W MV SABS approved high bay luminaire with auto light similar or equal to Beka bay	No	1		
		.11 Control gear for 250W MV low bay down lighter: similar to Bekatec 250W HPS	No	1		
		.12 Control gear for 400W MV SABS approved high bay luminaire with auto light similar or equal to Beka bay	No	1		
AB.02.09	1802,07	Replace lamp holder (ceramic)	No	10		
AB.02.07	1802,08	Service light switches (all type)	No	350		
AB.02.04	1802,09	Replace faulty light switch:				
AB.04.01		.01 16A, one lever, one way	No	20		
		.02 16A, two lever, one way	No	35		
		.03 16A, three lever, one way	No	1		
AB.04.02		.04 16A, one lever, two way	No	1		
		.05 16A water tight, robust	No	6		
		.06 16A, single lever, one way IP55 rotary type	No	6		
AB.02.05	1802,10	Replace photo-electric switch:				
		.01 16A unit with bracket and mounted on meter/distribution box bulkhead fitting	No	2		
		.02 16A unit with bracket and mounted on pole	No	2		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.01.04	1803,00	<b><u>WIRING</u></b>				
	1803,01	<b>Install/remove/Replace wiring:</b>				
	.01	2.5mm <sup>2</sup> PVC insulated	m	300		
	.02	4mm <sup>2</sup> PVC insulated	m	200		
	.03	6mm <sup>2</sup> PVC insulated	m	100		
	.04	10mm <sup>2</sup> PVC insulated	m	50		
	.05	2.5mm <sup>2</sup> BCEW	m	100		
	.06	4mm <sup>2</sup> BCEW	m	100		
	.07	6mm <sup>2</sup> BCEW	m	50		
	1804,00	<b><u>WIRE WAYS, CONDUITS AND ACCESSORIES</u></b>				
AB.03.04	1804,01	<b>Replace/install conduit with:</b>				
	.01	20 mm dia. Galv. Steel	m	40		
	.02	25 mm dia. Galv. Steel	m	20		
	.03	35 mm dia. Galv. Steel	m	10		
AB.03.09	1804,04	<b>Replace power skirting:</b>				
	.01	2-tier powder-coated galvanised steel	m	10		
	.02	3-tier powder-coated galvanised steel	m	10		
	.03	2-tier PVC	m	2		
	.04	3-tier PVC	m	10		
AB.03.05	1804,05	<b>Replace wiring channel:</b>				
	.01	OL 2000, 41.3 × 41.3 mm	m	10		
	.02	OL 9000, 127 × 76 mm	m	10		
	.03	White PVC 100 × 76 mm	m	10		
	.04	White PVC 40 × 40 mm	m	10		
AB.03.10	1804,06	<b>Supply and install junction boxes:</b>				
	.01	83 mm Ø - double entry	m	2		
	.02	127 mm Ø - 3 way	m	2		
Carried forward						



## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Brought forward								
AB.03.07	1805,00	<b><u>SWITCH SOCKET OUTLETS:</u></b>						
	1805,01	<b>Service switch socket outlet mounted in/on wall or in power trunking</b>						
	.01	16A, single SSO	No	200				
	.02	16A, double SSO	No	85				
AB.03.01	1805,02	.03 16A, dedicated single SSO	No	35				
		<b>Replace/install socket outlet</b>						
		.01 16A, single SSO	No	10				
		.02 16A, double SSO	No	10				
AB.03.01	1805,02	.03 16A, single SSO power skirting mounted	No	10				
		.04 16A, dedicated SSO power skirting mounted	No	10				
		1806,00	<b><u>FIXED APPLIANCE AND COMPONENTS</u></b>					
		AB.03.19	1806,01	<b>Replace geyser components:</b>				
AB.03.19	1806,01	.01 Replace domestic geyser element 2kW, 3kW & 4kW	No	25				
		.02 Replace geyser thermostat and set to 55°	No	25				
		AB.03.18	1806,02	<b>Replace domestic stove components:</b>				
		.01 150-160 dia. Solid plate	No	10				
AB.03.18	1806,02	.02 170-190 dia. Solid plate	No	10				
		.03 200-220 dia. Solid plate	No	10				
		.04 Five/six heat switch	No	10				
		.05 Oven bottom element	No	10				
AB.03.18	1806,02	.06 Oven top element	No	10				
		<b>Supply and install 4 plate stove with oven and warm drawer similar or equal to existing</b>	No	4				
		AB.03.20	1806,03					
		Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.03.06	1806,04	Replace connection from isolator to fixed appliance, with flexible copex (sprague) conduit and conductors, e.g. stove, hand dryers or geyser etc.:				
	.01	Stove : 2 x 6 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors.	No	5		
	.02	Geyser: 2 x 4 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors	No	5		
	.03	Air conditioners 2 x 6 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors.	No	5		
	.04	Hand dryers 2 x 6 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors.	No	5		
AB.03.08	1806,05	Service isolating switches next to stoves, geysers, hand dryers and air-conditioner				
	.01	20-60 A, 2 pole 275V	No	150		
	.02	80 A, 2 pole 275V	No	8		
	.03	80-160 A, 3 pole 600V	No	10		
AB.03.02	1806,06	Repair/replace isolating switches next to stoves, geysers, hand dryers and air-conditioner				
	.01	20-60 A, 2 pole 275V	No	4		
	.02	30 A, 2 pole with cord grip	No	6		
	.03	30 A, 2 pole in S15 type York box	No	2		
	.04	80-100 A, 2 pole	No	1		
	.05	60-100 A, 4 pole 600V	No	2		
AB.03.03	1806,07	Replace plug tops:				
	.01	3-pin 16A	No	10		
	1807,00	<u>EARTHING AND BONDING OF WATER PIPES</u>				
AB.04.01	1807,01	Supply and install earthing and bonding of water pipes for the whole installation	m	10		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	1808,00	<b><u>LIGHTNING PROTECTION</u></b>				
AB.04.03	1808,01	<b>Supply and install earth electrodes:</b>				
	.01	16 mm dia. 1.2 m long Cu rod and clamp	No	10		
AB.04.04	1808,02	<b>Provide cadwed joint on 70 mm<sup>2</sup> cable</b>	No	10		
AB.04.05	1808,03	<b>Earth building metal roof, gutters &amp; downpipes</b>	No	10		
AB.04.02	1808,04	<b>Testing of lightning earthing by a specialist contractor</b>	No	5		
	1808,07	<b><u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material</u></b>				
AB.01.07(a) )	1808,08	<b>Excavate in all materials for trenches, backfill, compact and dispose of surplus material</b>	m <sup>3</sup>	10		
AB.01.07(a) )	1808,09	<b>Extra over item above for excavating in hard materials as approved by the engineer</b>	m <sup>3</sup>	10		
AB.01.07(b) )	1808,10	<b>Extra over item above for removal and reinstating of all types of paving</b>	m <sup>2</sup>	5		
AB.01.09	1808,11	<b>Supply and install plastic warning tape</b>	m	100		
AB.01.08	1808,12	<b>Supply and install uPVC cable sleeves:</b>				
	.01	110 mm diameter	m	20		
	.02	76 mm diameter	m	10		
	.03	50 mm diameter uPVC	m	10		
	1809,00	<b>REPAIR/REPLACE CABLING</b>				
AB.01.03	1809,01	<b>Supply, delivery and installation of PVC/SWA/PVC Cu low-voltage cable:</b>				
	.01	120 mm <sup>2</sup> , 4-core	No	1		
	.02	95 mm <sup>2</sup> , 4-core	No	1		
	.03	70 mm <sup>2</sup> , 4-core	No	1		
	.04	35 mm <sup>2</sup> , 4-core	No	1		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.01.03	1809,01	.05 25 mm <sup>2</sup> , 4-core	No	1		
		.06 16 mm <sup>2</sup> , 4-core	No	1		
		.07 16 mm <sup>2</sup> , 2-core ECC	No	1		
		.08 10 mm <sup>2</sup> , 4-core	No	1		
AB.01.05	1809,02	<b>Termination of PVC/SWA/PVC Cu LV cable:</b>				
		.01 120 mm <sup>2</sup> , 4-core	No	2		
		.02 95 mm <sup>2</sup> , 4-core	No	2		
		.03 70 mm <sup>2</sup> , 4-core	No	2		
		.04 35 mm <sup>2</sup> , 4-core	No	2		
		.05 25 mm <sup>2</sup> , 4-core	No	2		
		.06 16 mm <sup>2</sup> , 4-core	No	2		
		.07 16 mm <sup>2</sup> , 2-core ECC	No	2		
AB.01.05	1809,04	<b>Jointing of Low-Voltage cable:</b>				
		.01 120 mm <sup>2</sup> , 4-core	No	1		
		.02 95 mm <sup>2</sup> , 4-core	No	1		
		.03 70 mm <sup>2</sup> , 4-core	No	1		
		.04 35 mm <sup>2</sup> , 4-core	No	1		
		.05 25 mm <sup>2</sup> , 4-core	No	1		
		.06 16 mm <sup>2</sup> , 4-core	No	1		
		.07 16 mm <sup>2</sup> , 2-core ECC	No	1		
HC 12.03 (a)	1810,00	<b><u>DISTRIBUTION KIOSKS</u></b>				
		<b>Service Distribution kiosk</b>	No	3		
HC 12.03 (c)	1810,03	<b>Label kiosks, electrical equipment, circuit breakers, switches, meters, cables and wiring, with the required information as well as providing typed legend cards inside the door/s, showing all the equipment inside the kiosk/box</b>	No	2		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HC 12.03 (d)	1810,04	Supply and install padlocks	No	10		
HC 12.03 (f)	1810,05	Replace door hinges on meter and distribution kiosk	No	2		
HC 12.03 (g)	1810,06	Supply and install door handles	No	2		
TOTAL: SCHEDULE NO 3.1: INSTALLATION ER 1: BUILDING AND SITE ELECTRICAL - CARRIED TO SUMMARY						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 3.2: INSTALLATION ER 2: STANBY POWER SYSTEMS

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SB.01	2701,00	<b><u>MANUALS AND TRAINING</u></b>				
		<b>Compile and supply a complete set of operating and maintenance manuals for all standby power installations specified</b>				
SB.01		.01 at the Kopfontein Port of Entry	Sum	1		
SB.01		.01 at the Derdepoort Port of Entry	sum	1		
SC.12		<b>Commissioning and testing of the installation</b>				
		.01 at the Kopfontein Port of Entry	Sum	1		
		.01 at the Derdepoort Port of Entry	sum	1		
SD	2702,00	<b><u>TRAINING</u></b>				
SD.04		.01 Training of own staff	sum	1		
SD.03		.02 Training of client staff on site	sum	1		
SA.01	2702,01	<b>Repair and servicing of the standby power installations at , Kopfontein &amp; Derdepoort ports of entry</b>				
		<b>PLEASE NOTE: All items must include the cost of all consumable and installation material</b>				
HB 10.03.01		Clean and repair genset plant rooms	No	2		
		<b>Kopfontein</b>				
HB 10.03.02		Service 100kVA genset	No	6		
HB 10.03.03		Service diesel engine	No	3		
		Supply and install new 100KVA generator	No	1		
		<b>Derdepoort</b>				
HB 10.03.02		Service 62,5kVA genset	No	6		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION ER 2: STANBY POWER SYSTEMS

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB 10.03.03		Service diesel engine	No	3		
HB 10.03.04		Replace starter battery	No	4		
HB 10.03.05		Execute dummy load test	No	4		
HB 10.03.06		Service change-over switchgear	No	4		
HB 10.03.07		Supply and install padlocks	No	2		
		Supply and install new 65KVA generator	No	1,00		
HB 06.03	2702,03	<b>Supply of tools and spares for Kopfontein, and Derdepoort emergency power generation sets:</b>				
HB 06.03		.01 Distribution board key	number	2		
HB 06.03		.02 Distribution board face plate square key	number	2		
HB 06.03		.03 Remote alarm panel key	number	2		
HB HB 06.03		.04 HD diesel engine lubricating oil				
		.01 Kopfontein	l(litre)	20		
		.02 Derdepoort	l(litre)	20		
HB 06.03		.05 Fuel, oil,, air filters	Set	4		
HB 06.03		.06 Oil funnel	number	2		
HB 06.03		.07 Sump plug gasket	number	4		
HB 06.03		.08 Set of fuel injectors	Set	2		
HB 06.03		.09 Jockey pump, 220 Volt AC powered	number	2		
HB 06.03		.10 Jockey pump, hand cranked	number	2		
HB 06.03		.11 Hose; 20mm IDx5m	number	2		
HB 06.03		.12 Coolant additive (Antifreeze)				
		.01 Kopfontein	l(litre)	20		
		.02 Derdepoort	l(litre)	20		
HB 06.03		.13 Pressure cap for radiators (correctly rated)	number	2		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION ER 2: STANBY POWER SYSTEMS

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB 06.03		.14 Set V-Belts; Multi V-belts or toothed drive belts	Set	2		
HB 06.03		.15 Battery jumper cables; 35mm <sup>2</sup> by 3m length	pair	2		
HB 06.03		.16 Battery electrolyte hydrometer	number	2		
HB 06.03		.17 Distilled water (25l)	l(litre)	25		
HB 06.03		.18 Wall-mounted paper towel dispenser of aluminium structure and complete with paper cartridge/ roll	number	2		
HB 06.03		.19 Providing plantroom log blocks, files, copies of manuals, copies of Acts and statutory notifications and regulations	Set	2		
HB 06.03		.20 First Aid Kit (FAK 02A) with the regulation minimum content in a suitable sized first aid box or bag. Refer to HB 03.03.18 for content	number	2		
HB		.21 Plantroom door padlock	number	2		
HB 10.03		.22 Reserve diesel fuel on site				
		.01 Kopfontein	l(litre)	6000		
		.02 Derdepoort	l(litre)	1500		
	4,0	<b><u>UPS SYSTEM</u></b>				
HB 11.03.01	4,1	Service UPS cabinets				
		.01 Tower 1100 20kVA Unit	No	1		
		.02 Tower 1100 10kVA Unit	No	1		
		.03 QP500 10kVA Unit	No	1		
		.04 Tower 1100 5kVA Unit	No	4		
HB 11.03.02	4,2	Execute dummy load test	No	7		
HB 11.03.03	4,3	Replace UPS batteries				
		.01 Tower 1100 20kVA Unit 12V 7a/h	No	32		
		.02 Tower 1100 10kVA Unit 12V 7a/h	No	32		
Carried forward						



## SCHEDULE NO 3.2: INSTALLATION ER 2: STANBY POWER SYSTEMS

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB 11.03.03	4,4	.03 QP500 10kVA Unit 12V 7a/h	No	24		
		.04 Tower 1100 5kVA Unit 12V 7a/h	No	12		
		Replace UPS battery charger card	No	1		
		Replace UPS control card	No	1		
		Replace UPS power supply card	No	1		
HB 11.03.03	4,6	Replace UPS 32A fuses	No	1		
TOTAL: SCHEDULE NO 3.2: INSTALLATION ER 2: STANBY POWER SYSTEMS - CARRIED TO SUMMARY						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 3.3: INSTALLATION ER 3: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	2800,00	<u>EXTERNAL LIGHTING: REPAIR INSTALLATION</u>				
	2800,00	<u>GENERAL REPAIR</u>				
	2800,010	<u>Excavation</u>				
HE08.06(a)		.01 Excavate in all the materials for trenches, backfill, compact and dispose of surplus material	m <sup>3</sup>	10		
HE08.06(b)		.02 Extra over item 1001.02 for excavating in hard material	m <sup>3</sup>	5		
		.03 Extra over item 1001.02 for excavating by hand material in all the materials	m <sup>3</sup>	10		
HE08.06(d)		.04 Extra over item 1001.02 for using backfill material obtained from sources provided by the contractor	m <sup>3</sup>	5		
HE08.06(e)	2800,02	Supply and install uPVC sleeves:				
		.01 110 mm diameter	m	12		
		.02 76mm diameter	m	6		
		.03 50mm diameter	m	6		
HE08.06(f)	2800,03	Supply and install cable warning tape	m	50		
HE08.06(h)	2800,04	Supply and install PVC/SWA/PVC Cu LV cable:				
		.01 16mm <sup>2</sup> ,4-core	m	10		
		.02 10mm <sup>2</sup> ,4-core	m	10		
HE08.06(i)	2800,05	Termination of PVC/SWA/PVC Cu LV cable:				
		.01 16mm <sup>2</sup> ,4-core	number	3		
		.02 10mm <sup>2</sup> ,4-core	number	3		
HE08.06(j)	2800,06	Supply and installation of bare copper earth conductor:				
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION ER 3: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
HE08.06(l)	2800,07	.01 10mm²	m	10			
		.02 6mm²	m	10			
		Termination of bare copper earth conductors:					
		.01 10mm²	number	3			
HE08.06(n)	2800,08	.02 6mm²	number	3			
		Re-lamp luminaire					
		.01 70W HPS street light	number	50			
		.02 250W HPS street light	number	50			
HE	2800,09	.03 250W Metal halide	number	20			
		.04 400W HPS Floodlight	number	13			
		.05 1000W HPS Floodlight	number	20			
		.06 125W HP MV Streetlight	number	30			
		.07 26W CF lamp	number	30			
		Service luminaire					
		.01 70W HPS street light	number	38			
		.02 250W HPS street light	number	23			
HE	2800,10	.03 250W Metal halide	number	65			
		.04 400W HPS Floodlight	number	45			
		.05 1000W HPS Floodlight	number	9			
		.06 125W HP MV Streetlight	number	20			
		Replace luminaire with LED equivalent					
		.01 70W HPS street light	number	5			
		.02 250W HPS street light	number	3			
		.03 250W Metal halide	number	3			
HE	2800,11	.04 400W HPS Floodlight	number	3			
		Replace luminaire with LED equivalent					
		.05 1000W HPS Floodlight	number	3			
		Carried forward					

## SCHEDULE NO 3.3: INSTALLATION ER 3: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HE08.06(o)	2800,12	.06 125W HP MV Streetlight	number	3		
		.06 80W MV Post Top	number	3		
		<b>Supply and installation of internal luminaire</b>				
		.01 Ballast for up to 400 W HPS	number	3		
		.02 Ballast 1000 W HPS	number	3		
		.03 Ignitor for up to 400 W HPS	number	3		
		.04 Ignitor 1000 W HPS	number	3		
		.05 Capacitor for up to 400 W HPS	number	3		
		.06 Capacitor 1000 W HPS	number	3		
		.07 GES porcelain lamp holder	number	3		
HE08.06(z)	2800,13	.08 Ballast for up to 125W MV	number	3		
		.09 Ignitor for up to 125W MV	number	3		
		.10 Capacitor for up to 125W MV	number	3		
		<b>Replace Luminaire diffuser:</b>				
		.05 1000W HPS Floodlight	number	30		
		.02 250W HPS Floodlight	number	30		
HE08.06(u)	2800,14	.04 400W HPS Floodlight	number	30		
		.03 250W Metal halide	number	30		
		.06 125W Postop luminaire	number	30		
HE08.06(s)	2800,15	<b>Supply and install photocell (plug-in type)</b>	number	10		
HE08.06(x)	2800,16	<b>Supply and install contactors</b>	number	10		
HE08.06(ac)	2800,17	<b>Supply and install end connectors and insulating sleeves</b>	number	10		
		<b>Supply and install junction box including pole mount brackets (3 way parallel entry cable boxes)</b>				
		.01 300mm × 200mm × 150mm-Junction	number	2		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION ER 3: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HE	2800,18	Replace pole cover for clip-on tray and circuit breaker	number	5		
HE	2800,19	Repair clip-on tray and circuit breaker inside pole	number	5		
HE	2800,20	Supply and install junction box including wooden pole mount brackets.	number	3		
HE	2800,21	Remove rust, treat and paint junction boxes mounted on wooden poles .	number	4		
HE	2800,22	Label and number poles and cable inside steel poles, and junction boxes and cable mounted on wooden poles	number	40		
HE08.06(af)	2800,23	Supply and install padlocks.	number	10		
HE08.06		Replace steel, fibre glass or wooden poles with lamp mounting stub/arm				
		.01 9m galvanised steel poles	number	5		
		.02 12m galvanised steel poles	number	5		
		.03 Fibre glass poles replace with galvanised steel	number	5		
		.04 9.5m wooden poles	number	5		
HE08.06	2800,24	Service and straighten steel, fibre glass or wooden poles with lamp mounting stub/arm				
		.01 10.5m galvanised steel poles	number	3		
		.02 15m galvanised steel poles	number	3		
		.03 4m Fibre glass poles	number	3		
		.04 9.5m wooden poles treat with bitumen	number	3		
	TOTAL: SCHEDULE NO 3.3: INSTALLATION ER 3: EXTERNAL LIGHTING - CARRIED TO SUMMARY					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.06	400,00	<b><u>BUILDING AND SITE ELECTRICAL CORRECTIVE MAINTENANCE WORK</u></b>				
		<b><u>SWARTKOPFONTEIN</u></b>				
	400,01	Call-out for repair of Emergency Breakdown (24 hours) response.				
AB.01.01	401,00	<b><u>DISTRIBUTION BOARDS</u></b>				
	401,01	Service Distribution Board:				
		.01 Floor standing DB Swartkopfontein Gate	number	1		
AB.01.13		.02 Domestic single phase (+/- 500x600mm)	number	4		
		.03 Domestic single phase (+/- 450 x 400mm)	number	4		
		.04 Surface mounted DB (+/- 500 x 600mm)	number	4		
AB.01.14		.05 Surface mounted DB (+/- 250 x 250mm)	number	2		
	401,02	Supply and installation of circuit breakers (SABS approved)				
		.01 10-40A, 6kA single pole	No	4		
AB.01.14		.02 10-60A, 6kA single pole	No	5		
		.03 10-40A, 6kA double pole	No	5		
		.04 10-40A, 6kA triple pole	No	5		
AB.01.14		.05 40-80A, 6kA triple pole	No	5		
	401,03	Supply and installation of isolators (SABS approved)				
		.01 20-40A, 6kA double pole	No	5		
Carried forward						

## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.01.15	401,04	.02 60A, 6kA double pole	No	6		
		.03 60A, 6kA triple pole	No	6		
AB.01.16	401,05	Supply and install of contactors				
		.01 30A, 3 pole	No	6		
AB.01.17	401,05	Supply and install switching timers:				
		.01 Electronic QAT-R-type time switch with 24hr time reserve	No	6		
AB.01.19	401,06	Supply and install earth leakage units (SABS approved)				
		.01 60A, 5kA double pole	No	6		
AB.01.11	401,06	Supply and install surge arrestors:				
		.01 1 pole and neutral 275V 5kA with indication	No	8		
AB.01.12	401,06	.02 3 pole and neutral 275V 5kA with indication	No	4		
		Supply and install earth continuity				
AB.01.12	401,07	.01 70mm² BCEW	m	10		
		.02 50mm² aluminium	m	10		
AB.01.12	401,07	Terminate earth continuity conductors:				
		.01 70mm² BCEW	No	6		
AB.01.04	402,00	.02 50mm² aluminium	No	12		
		<u>WIRING</u>				
AB.01.04	402,01	Replace wiring:				
		.01 2.5mm² PVC insulated	m	300		
AB.01.04	402,01	.02 4mm² PVC insulated	m	150		
		.03 6mm² PVC insulated	m	100		
AB.01.04	402,01	.04 10mm² PVC insulated	m	100		
		.05 2.5mm² BCEW	m	150		
Carried forward						

## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		.06 4mm <sup>2</sup> BCEW	m	100		
		.07 6mm <sup>2</sup> BCEW	m	60		
	403,00	<b><u>LIGHTING INSTALLATION</u></b> Lighting Schedule can be found in Specification AB				
AB.02.01	403,01	<b>Re-lamp luminaire:</b>				
		.01 58W Fluorescent	No	10		
		.02 36W Fluorescent	No	10		
		.03 250W HPS lamps	No	2		
		.04 70W HPS lamps	No	4		
		.05 PL9 W	No	10		
		.06 16W/E27	No	10		
		.07 11W/E27	No	6		
AB.02.02	403,02	<b>Service luminaire:</b>				
		.01 Type A	No	10		
		.02 Type B	No	10		
		.03 Type C	No	10		
		.04 Type D	No	5		
		.05 Type K	No	10		
		.06 Type L	No	4		
		.07 Type S	No	6		
		.08 Type T	No	6		
		.09 Type V	No	8		
		.10 Type W	No	8		
AB.02.03	403,02	<b>Replace luminaire with LED equivalent:</b>				
		.01 Type A	No	4		
		.02 Type B	No	4		
		.03 Type D	No	4		
Carried forward						



## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Brought forward								
AB.02.03	403,01	.04     Type C	No	4				
		.05     Type K	No	4				
		.06     Type L	No	4				
		.07     Type S	No	4				
		.08     Type T	No	4				
		.09     Type V	No	4				
		.10     Type W	No	4				
		.11     Type Z	No	4				
		AB.02.06	403,03	Replace luminaire diffuser or lens:				
				.01     Type K	No	4		
.02     Type L	No			4				
.03     Type S	No			4				
.04     Type T	No			4				
		.05     Type V	No	4				
		.06     Type Z	No	4				
		AB.02.10	403,04	Replace luminaire internal components:				
				.01     Choke for 36W Fluorescent	No	2		
				.02     Choke for 58W Fluorescent	No	2		
.03     Fluorescent starter	No			6				
AB.02.08	403,05			Remove, clean, store and reinstallation of luminaire:				
		.01     Luminaire removal and reinstallation	No	2				
AB.02.07	403,06	Service Light switch (All types):	No	65				
AB.02.04	403,07	Replace Light switch:						
		.01     16A, one lever, one way	No	2				
		.02     16A, two lever, one way	No	2				
		.03     16A, three lever, one way	No	1				
		.04     16A, one lever, two way	No	1				
Carried forward								

## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.05	403,08	.05 16A water tight, robust <b>Replace photo-electric switch:</b>	No	2		
AB.02.09	403,09	.01 16A unit with bracket and mounted in dummy bulkhead fitting <b>Replace lamp holder (Ceramic)</b>	No	2		
AB.03.07	404,00	<b><u>POWER OUTLETS:</u></b>				
AB.03.07	404,01	<b>Service socket outlet</b>				
AB.03.01	404,02	.01 16A, single SSO	No	25		
AB.03.01	404,02	.02 16A, double SSO	No	20		
AB.03.01	404,02	.03 16A, dedicated single SSO	No	10		
AB.03.01	404,02	<b>Replace socket outlet</b>				
AB.03.01	404,02	.01 16A, single SSO	No	2		
AB.03.01	404,02	.02 16A, double SSO	No	2		
AB.03.01	404,02	.03 16A, single SSO power skirting mounted	No	2		
AB.03.01	404,02	.04 16A, dedicated SSO power skirting mounted	No	2		
AB.03.08	404,03	<b>Service isolator:</b>				
AB.03.08	404,03	.01 60A, 2 pole	No	10		
AB.03.08	404,03	.02 30A, 2 pole	No	25		
AB.03.02	404,04	<b>Replace isolator:</b>				
AB.03.02	404,04	.01 30A, 2 pole	No	1		
AB.03.02	404,04	.02 30A, 2 pole with cord grip	No	1		
AB.03.02	404,04	.03 30A, 2 pole in S15 type York box	No	1		
AB.03.02	404,04	.04 60A, 2 pole	No	1		
AB.03.03	404,05	<b>Replace plug tops:</b>				
AB.03.03	404,05	.14 3-pin 16A	No	2		
AB.03.03	404,05	.15 3-pin square 13A	No	2		
Carried forward						

## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.03.19	405,00	<b><u>FIXED APPLIANCE AND COMPONENTS</u></b>				
	405,01	<b>Replace geyser components:</b>				
	.01	Replace domestic geyser element	No	1		
	.02	Replace geyser thermostat	No	1		
AB.03.18	405,02	<b>Replace domestic stove components:</b>				
	.01	150-160 dia. Solid plate	No	2		
	.02	170-190 dia. Solid plate	No	2		
	.03	200-220 dia. Solid plate	No	2		
	.04	Five/six heat switch	No	2		
	.05	Oven bottom element	No	2		
	.06	Oven top element	No	2		
AB.03.06	405,03	<b>Replace connection from isolator to fixed appliance, with flexible copex (sprague) conduit and conductors, e.g. stove or geyser:</b>				
	.01	Stove : 2 × 6 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors.	No	2		
	.02	Geyser: 2 × 4 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors	No	2		
	406,00	<b><u>WIRE WAYS, CONDUITS AND ACCESSORIES</u></b>				
AB.03.04	406,01	<b>Replace conduit:</b>				
	.01	20 mm dia. Galv. Steel	No	40		
	.02	25 mm dia. Galv. Steel	No	20		
AB.03.11	406,02	<b>Supply and install outlets (draw) boxes:</b>				
	.01	100 × 50 Galv. Steel	No	2		
	.02	100 × 100 Galv. Steel	No	2		
	.03	50 × 100 mm white enamel extension boxes	No	2		
	.04	100 × 100 mm white enamel extension boxes	No	2		
Carried forward						

## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.03.12	406,02	.05 Circular 20mm <b>Supply and install draw box plates (white enamel) to fit:</b>	No	2		
		.01 100 × 50 box	No	2		
		.02 100 × 100 box	No	2		
		.03 Circular galvanised box	No	2		
AB.03.09	406,03	<b>Replace power skirting:</b>				
		.01 2-tier powder-coated galvanised steel	m	10		
AB.03.05	406,04	<b>Replace wiring channel:</b>				
		.01 OL 2000, 41.3 × 41.3 mm	m	2		
		.02 OL 9000, 127 × 76 mm	m	2		
AB.03.10	406,05	<b>Supply and install junction boxes:</b>				
		.01 83 mm Ø - double entry	No	2		
		.02 127 mm Ø - 3 way	No	2		
AB.03.20	406,06	<b>Supply and install 4 plate stove with oven and warm drawer similar or equal to existing</b>	No	1		
	407,00	<b><u>EARTHING AND BONDING</u></b>				
AB.04.01	407,01	<b>Supply and install earthing and bonding in all ablution room, laundries and kitchens</b>	Sum			
	408,00	<b><u>LIGHTNING PROTECTION</u></b>				
AB.04.03	408,01	<b>Supply and install earth electrodes:</b>				
		.01 16 mm dia. 1.2 m long Cu rod and clamp	No	4		
AB.04.04	408,02	<b>Provide cadwed joint on 70 mm<sup>2</sup> cable</b>	No	4		
AB.04.05	408,03	<b>Earth building roof structure</b>	No	4		
AB.04.02	408,04	<b>Testing of lightning earthing by a specialist</b>	Sum	1		
AB.04.21	408,05	<b>Provide a Certificate of Compliance</b>	No	34		
Carried forward						

## SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	409,00	<u>DISTRIBUTION KIOSKS</u>				
HC 12.03(a)	409,01	Service Distribution kiosk	No	1		
HC 12.03 (c)	409,03	Label kiosks	No	2		
HC 12.03 (d)	409,04	Supply and install padlocks	No	4		
HC 12.03 (f)	409,05	Replace door hinges on meter and distribution kiosk	No	1		
HC 12.03 (g)	409,06	Supply and install door handles	No	1		
TOTAL: SCHEDULE NO 3.4: INSTALLATION ER 4: BUILDING AND SITE ELECTRICAL - CARRIED TO SUMMARY						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 3.5: INSTALLATION ER 5: STANBY POWER SYSTEMS

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SB.01	2701,00	<b><u>SWARTKOPFONTEIN</u></b>				
		<b><u>MANUALS AND TRAINING</u></b>				
		Compile and supply a complete set of operating and maintenance manuals for all standby power installations specified				
SB.01		.01 Generator System	Sum	1		
SC.12.03		<b>Commissioning and testing of the installation</b>				
		.01 Generator System	Sum	1		
SD	2702,00	<b><u>TRAINING</u></b>				
SD.04		.01 Training of own staff	sum	1		
SD.03		.02 Training of client staff on site	sum	1		
SA.01	2702,01	<b>Repair and servicing of the standby power installations at ,Swartkopfontein ports of entry</b>				
		<b>PLEASE NOTE: All items must include the cost of all consumable and installation material</b>				
HB 10.03.01		Clean and repair genset plant rooms	No	1		
HB 10.03.02		Service 68kVA genset	No	6		
HB 10.03.03		Service diesel engine	No	3		
HB 10.03.04		Replace starter battery	No	2		
HB 10.03.05		Execute dummy load test	No	2		
HB 10.03.06		Service change-over switchgear	No	2		
HB 10.03.07		Supply and install padlocks	No	2		
Carried forward						

## SCHEDULE NO 3.5: INSTALLATION ER 5: STANBY POWER SYSTEMS

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB 06.03	2702,03	<b>Supply of tools and spares for Swartkopfontein emergency power generation set:</b>				
HB 06.03		.01 Distribution board key	number	1		
HB 06.03		.02 Distribution board face plate square key	number	1		
HB 06.03		.03 Remote alarm panel key	number	1		
HB 06.03		.04 HD diesel engine lubricating oil	l(litre)	100		
HB 06.03		.05 Fuel, oil, air filters	Set	2		
HB 06.03		.06 Oil funnel	number	1		
HB 06.03		.07 Sump plug gasket	number	2		
HB 06.03		.08 Set of fuel injectors	Set	2		
HB 06.03		.09 Jockey pump, 220 Volt AC powered	number	1		
HB 06.03		.10 Jockey pump, hand cranked	number	1		
HB 06.03		.11 Hose; 20mm ID×5m	number	1		
HB 06.03		.12 Coolant additive (Antifreeze)	l(litre)	20		
HB 06.03		Pressure cap for radiators (correctly rated)				
		.13	number	2		
		Set V-Belts; Multi V-belts or toothed drive				
		.14 belts	Set	1		
HB 06.03		.15 Battery jumper cables; 35mm <sup>2</sup> by 3m	pair	1		
HB 06.03		.16 Battery electrolyte hydrometer	number	1		
HB 06.03		.17 Distilled water (25l)	l(litre)	25		
HB 06.03		Wall-mounted paper towel dispenser of				
		.18 aluminium structure and complete with paper cartridge/ roll	number	1		
HB 06.03		.19 Providing plantroom log blocks, files, Acts and statutory notifications and regulations	Set	1		
HB 06.03		First Aid Kit (FAK 02A) with the regulation				
		.20 minimum content in a suitable sized first aid box or bag. Refer to HB 03.03.18 for content	number	1		
Carried forward						

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB		.21 Plantroom door pdalock	number	1		
HB 10.03		.22 Reserve diesel fuel on site	l(litre)	2500		
		<b><u>UPS SYSTEM</u></b>				
HB 11.03.01		Service UPS cabinets				
		.01 Tower 1100 20kVA Unit	No	1		
		.02 Tower 1100 10kVA Unit	No	1		
HB 11.03.02		Execute dummy load test	No	2		
HB 11.03.03		Replace UPS batteries				
		.01 Tower 1100 20kVA Unit 12V 7a/h	No	48		
		.02 Tower 1100 10kVA Unit 12V 7a/h	No	32		
HB 11.03.03		Replace UPS battery charger card	No	1		
HB 11.03.03		Replace UPS control card	No	1		
HB 11.03.03		Replace UPS power supply card	No	1		
HB 11.03.03		Replace UPS 32A fuses	No	1		
TOTAL: SCHEDULE NO 5: INSTALLATION ER 5: STANBY POWER SYSTEMS - CARRIED TO SUMMARY						



## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 3.6: INSTALLATION ER 6: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	408,00	<u>EXTERNAL LIGHTING GENERAL CORRECTIVE MAINTENANCE</u>				
HE 08.06(a)	408,06	Excavate in all materials for trenches, backfill, compact and dispose of surplus	m <sup>3</sup>	40		
HE 08.06(b)	408,07	Extra over item HE 08.06(a) above for excavating in hard materials	m <sup>3</sup>	10		
HE 08.06(c)	408,08	Extra over item HE 08.06(a) above for excavating by hand in all materials	m <sup>3</sup>	5		
HE 08.06(f)	408,09	Supply and install plastic warning tape	m	100		
HE 08.06(e)	408,10	Supply and install uPVC cable sleeves:				
	.01	110 mm diameter uPVC	m	12		
	.02	50 mm diameter uPVC	m	6		
HE 08.06(g)	408,11	Supply and delivery of PVC/SWA/PVC Cu low-voltage cable:				
	.01	35 mm <sup>2</sup> , 4-core	m	1		
	.02	25 mm <sup>2</sup> , 4-core	m	1		
	.03	16 mm <sup>2</sup> , 4-core	m	1		
	.04	10 mm <sup>2</sup> , 4-core	m	1		
	.05	16 mm <sup>2</sup> , 2-core	m	1		
HE 08.06(g)	.06	10 mm <sup>2</sup> , 2-core	m	1		
	.07	6 mm <sup>2</sup> , 4-core	m	1		
	.08	4 mm <sup>2</sup> , 4-core	m	1		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION ER 6: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HE 08.06(h)	408,12	Lay of PVC/SWA/PVC Cu LV cable:				
		.01     35 mm², 4-core	m	1		
		.02     25 mm², 4-core	m	1		
		.03     16 mm², 4-core	m	1		
		.04     10 mm², 4-core	m	1		
		.05     16 mm², 2-core	m	1		
		.06     10 mm², 2-core	m	1		
		.07     6 mm², 4-core	m	1		
		.08     4 mm², 4-core	m	1		
HE 08.06(i)	408,13	Termination of PVC/SWA/PVC Cu LV cable:				
		.01     35 mm², 4-core	No	1		
		.02     25 mm², 4-core	No	2		
		.03     16 mm², 4-core	No	4		
		.04     10 mm², 4-core	No	2		
		.05     16 mm², 2-core	No	2		
		.06     10 mm², 2-core	No	2		
		.07     6 mm², 4-core	No	2		
		.08     4 mm², 4-core	No	2		
HE 08.06(m)	408,14	Jointing of Low-Voltage cable:				
		.01     70 mm², 4-core	No	1		
		.02     25 mm², 4-core	No	1		
		.03     16 mm², 4-core	No	1		
		.04     10 mm², 4-core	No	1		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION ER 6: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
HE 08.06(m)	408,15	Supply of bare copper earth conductors:					
HE 08.06(j)							
			.01	25 mm <sup>2</sup>	m	1	
			.02	16 mm <sup>2</sup>	m	1	
			.03	10 mm <sup>2</sup>	m	1	
	.04	6 mm <sup>2</sup>	m	1			
HE 08.06(k)	408,16	Installation of bare copper earth conductors:					
			.01	25 mm <sup>2</sup>	m	1	
			.02	16 mm <sup>2</sup>	m	1	
			.03	10 mm <sup>2</sup>	m	1	
			.04	6 mm <sup>2</sup>	m	1	
HE 08.06(q)	408,17	Supply and install circuit breakers:					
			.01	70-100A, 15 kA triple pole	No	1	
			.02	125-160A, 15 kA triple pole	No	1	
			.03	200-250A, 25 kA triple pole	No	1	
			.04	300A, 25 kA triple pole	No	1	
HE 08.06(s)	408,18	Supply and install contactors:					
			.01	60A, 3 pole	No	1	
HE 08.06(o)	408,19	Supply and installation of internal luminaire components:					
			.01	Ballast for 400 W HPS	No	1	
			.02	Igniter for 400 W HPS	No	1	
			.03	Capacitor for 400 W HPS	No	1	
Carried forward							

## SCHEDULE NO 3.6: INSTALLATION ER 6: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HE 08.06(u)	408,21	.04      GES porcelain lamp holder	No	2		
		.05      Ballast for 250 W HPS	No	2		
		.06      Capacitor for 250 W HPS	No	1		
HE 08.06(v)	408,22	Supply and install photocell (plug-in type)	No	1		
HE 08.06(x)	408,23	Supply and install electronic QAT-R type time switch	No	2		
HE 08.06(ac)	408,24	Supply and install end connectors and insulating sleeves	No	2		
		Supply and install junction box including pole mount brackets (3 way parallel entry cable boxes):				
		.01      No 1	No	1		
		.02      No 2	No	1		
		.03      No 3	No	1		
HE 09.03	415,00	<u>SWARTKOPFONTEIN AREA LIGHTING</u>				
HE 09.03 (a)	415,01	Re-lamp luminaire:				
		.01    400W HPS Floodlight luminaire	No	2		
		.02    125W   MV Post Top luminaire	No	5		
HE 09.03 (b)	415,02	Service luminaire:				
		.01    400W HPS Floodlight luminaire	No	2		
		.02    125W   MV Post Top luminaire	No	10		
HE 09.03 (f)	415,03	Replace luminaire with LED equivalent				
		.01    400W HPS Floodlight luminaire	No	2		
		.02    125W   MV Post Top luminaire	No	2		
HE 09.03 (g)	415,04	Replace light pole:				
		.01    3.0m fibreglass pole	No	2		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION ER 6: EXTERNAL LIGHTING

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HE 10.03	416,00	<b><u>SWARTKOPFONTEIN SECURITY FENCE LIGHTING SYSTEM</u></b>				
HE 10.03 (b)	416,01	<b>Re-lamp luminaire:</b>				
		.01 250W HPS Floodlight	No	10		
HE 10.03 (e)	416,02	<b>Service luminaire</b>				
		.01 250W HPS Floodlight	No	37		
HE 10.03 (d)	416,03	<b>Replace luminaire with LED equivalent</b>				
		.01 250W HPS Floodlight	No	1		
HE 10.03 (a)	416,04	<b>Service security light pole</b>	No	37		
SB 05.02	417,00	<b>Compile and supply a complete site layout</b>				
		.01 Electrical infrastructure	Sum	1		
		.02 Telecommunication infrastructure	Sum	1		
<b>TOTAL: SCHEDULE NO 3.6: INSTALLATION ER 6: EXTERNAL LIGHTING - CARRIED TO</b>						

**DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE****TENDER NO. H24/025AI****KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS****BILL OF QUANTITIES****SUMMARY OF SCHEDULE OF QUANTITIES: MECHANICAL REPAIR WORK**

				<b>TENDER</b>
Schedule No.	3.1	Installation MR1	HVAC Installations	R .....
Schedule No.	3.2	Installation MR2	Fire Protection Installations	R .....

---

**TOTAL OF BILL OF QUANTITIES: MECHANICAL REPAIR WORK  
CARRIED TO CALCULATION OF TENDER SUM**

R .....

---

**SIGNED ON BEHALF OF THE TENDERER:**

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 5: INSTALLATION ER 5: STANBY POWER SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PFD 04.02.01	1000,00	<b><u>AIR CONDITIONING</u></b>				
	1000,01	Allowance to repair Air-Conditioning Units and Ceiling fans				
	1000.01.01	Kopfontein operational and residential areas:				
		01 Clean air intake screen	No	30		
		02 Replace filters	Set	10		
		03 De-rust neutralize and touch up paintwork	No	20		
		04 Check settings and operation of all pressure switches and reset	No	25		
		05 Check settings and operation of all safety switches i.e. LP & HP switches, oil pressure switches	No	25		
		06 Check setting and operation of thermostat	No	25		
		07 Check running current of fans and compressor and settings and operations of overloads	No	25		
		08 Check tightness of electrial terminals	No	35		
		09 Ensure operation of local and remote isolators	No	20		
		10 Reposition and strap cables	No	40		
		11 Carry out a leak test on all refrigeration piping and components inclusive of evaporator and condenser	No	25		
		12 Replace compressor vibration mounts Set of Four(4).	Set	25		
		13 Check refrigerant charge sight glass	No	25		
		14 Clean condensate tray and test drainage operation	No	25		
Carried forward						

## SCHEDULE NO 5: INSTALLATION ER 5: STANBY POWER SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	1000.01. 02	15 Clean evaporator and condenser fan blades and check unbalance	No	25		
		<b>Swartkopfontein operational and residential areas:</b>				
		01 Clean air intake screen	No	20		
		02 Replace filters	Set	5		
		03 De-rust neutralize and touch up paintwork	No	15		
		04 Check settings and operation of all pressure switches and reset	No	20		
		05 Check settings and operation of all safety switches i.e. LP & HP switches, oil pressure switches	No	20		
		06 Check setting and operation of thermostat	No	20		
		07 Check running current of fans and compressor and settings and operations of overloads	No	20		
		08 Check tightness of electrical terminals	No	10		
		09 Ensure operation of local and remote isolators	No	15		
		10 Reposition and strap cables	No	30		
		11 Carry out a leak test on all refrigeration piping and components inclusive of evaporator and condenser	No	20		
		12 Replace compressor vibration mounts	Set	20		
		13 Check refrigerant charge sight glass	No	20		
		14 Clean condensate tray and test drainage operation	No	20		
		15 Clean evaporator and condenser fan blades and check unbalance	No	20		
Carried forward						



## SCHEDULE NO 5: INSTALLATION ER 5: STANBY POWER SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>1000.01. 02</b>	<b>Derdepoort operational and residential areas:</b>				
		01 Clean air intake screen	No	15		
		02 Replace filters	Set	5		
		03 De-rust neutralize and touch up paintwork	No	10		
		04 Check settings and operation of all pressure switches and reset	No	15		
		05 Check settings and operation of all safety switches i.e. LP & HP switches, oil pressure switches	No	15		
		06 Check setting and operation of thermostat	No	15		
		07 Check running current of fans and compressor and settings and operations of overloads	No	15		
		08 Check tightness of electrical terminals	No	20		
		09 Ensure operation of local and remote isolators	No	10		
		10 Reposition and strap cables	No	20		
		11 Carry out a leak test on all refrigeration piping and components inclusive of evaporator and condenser	No	15		
		12 Replace compressor vibration mounts	Set	15		
		13 Check refrigerant charge sight glass	No	15		
		14 Clean condensate tray and test drainage operation	No	15		
		15 Clean evaporator and condenser fan blades and check unbalance	No	15		
Carried forward						

## SCHEDULE NO 5: INSTALLATION ER 5: STANBY POWER SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PFD 05.01.04	1000,02	Allowance to replace AC Conditioning Unit				
	1000.02.01	Kopfontein operational and residential areas:				
		01 14kW mid wall split unit	No	2		
		02 7.2kW mid wall split unit	No	2		
		03 5.2kW mid wall split unit	No	2		
		04 3.5kW mid wall split unit	No	20		
		05 3.5kW window shaker	No	5		
		06 900mm air curtain	No	4		
	1000.02.02	Swartkopfontein operational and residential areas:				
		01 7.2kW mid wall split unit	No	2		
		02 5.2kW mid wall split unit	No	10		
		03 3.5kW mid wall split unit	No	5		
		04 3.5kW window shaker	No	6		
	1000.02.03	Derdepoort operational and residential areas:				
		01 7.2kW mid wall split unit	No	1		
		02 5.2kW mid wall split unit	No	2		
		03 3.5kW mid wall split unit	No	13		
PFD 05.01.02	1000,03	Allowance to replace temperature control unit (Remote)				
		01 Kopfontein operational and residential area's temperature control unit (Remote)	No	12		
		02 Swartkopfontein operational and residential area's temperature control unit (Remote)	No	9		
		03 Derdepoort operational and residential area's temperature control unit (Remote)	No	6		
Carried forward						

## SCHEDULE NO 5: INSTALLATION ER 5: STANBY POWER SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PFD 05.01.05	1000,04	<b>Allowance to replace 25mm Thermaflex isolation</b>				
		01 Kopfontein operational and residential area's 25mm Thermaflex isolation	m	60		
		02 Swartkopfontein operational and residential area's 25mm Thermaflex isolation	m	45		
		03 Derdepoort operational and residential area's 25mm Thermaflex isolation	m	20		
	1000,05	<b>Allowance to replace mid wall unit indoor casing:</b>				
		01 Kopfontein operational and residential mid wall unit indoor casing	No	8		
		02 Swartkopfontein operational and residential mid wall unit indoor casing	No	6		
		03 Derdepoort operational and residential mid wall unit indoor casing	No	4		
	1000,06	<b>Allowance to install/replace Condensate piping</b>				
		01 Kopfontein operational and residential install/replace Condensate piping	m	60		
		02 Swartkopfontein operational and residential install/replace Condensate piping	m	45		
		03 Derdepoort operational and residential install/replace Condensate piping	m	30		
	1100,00	<b><u>LABELLING</u></b>				
	1100,01	<b>Supply and install traffolite labels for</b>				
		01 Kopfontein operational and residential area's labels for identification of all types of air conditioning units	No	20		
		02 Swartkopfontein Bridge operational and residential area's labels for identification of all types of air conditioning units	No	15		
		03 Derdepoort operational and residential area's labels for identification of all types of air conditioning units	No	10		
	<b>TOTAL: SCHEDULE 1: INSTALLATION MR 1: HVAC INSTALLATIONS - CARRIED TO SUMMARY</b>					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 4.1: INSTALLATION MR1: HVAC INSTALLATIONS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
JC/PJC 04.02.01	1200,00	<b><u>CONVENTIONAL FIRE FIGHTING EQUIPMENT</u></b>				
	1200,01	Allowance to replace fire fighting equipment and emergrency exit signage				
	1200.01. 01	<b>Kopfontein operational and residential areas:</b>  01 ABS FireFighting equipment and emergency exit signage for exterior use: size 290mm x 290mm	No	20		
	1200.01. 02	<b>Swartkopfontein operational and residential areas:</b>  02 ABS FireFighting equipment and emergency exit signage for exterior use: size 290mm x 290mm	No	15		
	1200.01. 03	<b>Derdepoort operational and residential areas:</b> 03 ABS FireFighting equipment and emergency exit signage for exterior use: size 290mm x 290mm	No	10		
	1200,02	<b>Allowance for supply and installation of fire pump equipment:</b>				
	1200.02. 01	<b>Kopfontein operational and residential areas:</b> 01 Centrifugal Pump gland seal	No	1		
	1200,03	<b>Allowance for supply of fire extinguisher equipment:</b>				
	1200.03. 01	<b>Kopfontein operational and residential areas:</b>  01 9kg Dry chemical powder (STP) fire extinguisher	No	30		
		02 4.5kg Dry chemical powder (STP) fire extinguisher	No	2		
Carried forward						

## SCHEDULE NO 4.1: INSTALLATION MR1: HVAC INSTALLATIONS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		03 5kg CO2 fire extinguisher	No	1		
		04 Fire hydrant	No	2		
		05 Fire hose	No	2		
	<b>1200.03.02</b>	<b>Swartkopfontein operational and residential areas:</b>				
		01 9kg Dry chemical powder (STP) fire extinguisher	No	10		
		02 5kg CO2 fire extinguisher	No	2		
	<b>03</b>	<b>Derdepoort operational and residential</b>				
		01 9kg Dry chemical powder (STP) fire extinguisher	No	8		
		02 5kg CO2 fire extinguisher	No	3		
	<b>1300,01</b>	<b><u>LABELLING</u></b>				
	<b>1300.01.01</b>	<b>Supply and install traffolite labels for identification of all types of air conditioning units</b>				
		01 Kopfonten operational and residential area's labels for identification of all types of air conditioning units	No	20		
		02 Swartkopfontein operational and residential area's labels for identification of all types of air conditioning units	No	15		
		03 Derdepoort operational and residential area's labels for identification of all types of air conditioning units	No	10		
	<b>TOTAL:</b>	<b>SCHEDULE NO 2: INSTALLATION MR2: FIRE PROTECTION INSTALLATIONS - CARRIED TO SUMMARY</b>				

**DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE****TENDER NO. H24/025AI****KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS****BILL OF QUANTITIES****SUMMARY OF SCHEDULE OF QUANTITIES: CIVIL MAINTENANCE WORK****KOPFONTEIN****TENDER**

Schedule No.	5.1	Installation KCM1: Strucural and Building	R
Schedule No.	5.2	Installation KCM2: Plumbing, Drainage and Wet Services	R
Schedule No.	5.3	Installation KCM3: Fencing, Cleaning of Buildings and Site Keeping	R
Schedule No.	5.4	Installation KCM4: Bulk Water Supply Systems and External Water Networks	R
Schedule No.	5.5	Installation KCM5: Wastewater Treatment Works and Sewer Networks	R
Schedule No.	5.6	Installation KCM6: Roads and Storm Water Drainage	R

**SWARTKOPFONTEIN**

Schedule No.	6.1	Installation SCM1: Strucural and Building	R
Schedule No.	6.2	Installation SCM2: Plumbing, Drainage and Wet Services	R
Schedule No.	6.3	Installation SCM3: Fencing, Cleaning of Buildings and Site Keeping	R
Schedule No.	6.4	Installation SCM4: Bulk Water Supply Systems and External Water Networks	R
Schedule No.	6.5	Installation SCM5: Wastewater Treatment Works and Sewer Networks	R
Schedule No.	6.6	Installation SCM6: Roads and Storm Water Drainage	R

**DERDEPOORT**

Schedule No.	7.1	Installation DCM1: Strucural and Building	R
Schedule No.	7.2	Installation DCM2: Plumbing, Drainage and Wet Services	R
Schedule No.	7.3	Installation DCM3: Fencing, Cleaning of Buildings and Site Keeping	R
Schedule No.	7.4	Installation DCM4: Bulk Water Supply Systems and External Water Networks	R
Schedule No.	7.5	Installation DCM5: Wastewater Treatment Works and Sewer Networks	R
Schedule No.	7.6	Installation DCM6: Roads and Storm Water Drainage	R

---

**TOTAL OF BILL OF QUANTITIES: CIVIL MAINTENANCE WORK  
CARRIED TO CALCULATION OF TENDER SUM**


---

**R**

SIGNED ON BEHALF OF THE TENDERER:

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 5.1: INSTALLATION KCM1: STRUCTURAL &amp; BUILDING

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	800,00	<b><u>SCHEDULE NO 5.1: INSTALLATION KCM1:</u></b>				
		<b><u>KOPFONTEIN - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK</u></b>				
	800,01	<b><u>STRUCTURAL AND BUILDING RELATED WORK</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to the following during daily inspections of all structural components and elements of buildings and facilities: Preventative maintenance work and minor corrections of all structural and building related facilities, including components and elements such as, but not limited to: <ul style="list-style-type: none"> <li>• Doors (hinges, locksets, strike plates, locks)</li> <li>• Windows (pegs, stays, etc.)</li> <li>• Pull handles</li> <li>• Glass putty</li> <li>• Fascia boards</li> <li>• Roof cladding and sheeting</li> <li>• Cornices</li> <li>• Ceiling boards and jointing strips</li> <li>• Sealant</li> <li>• Skirtings, etc.</li> </ul> .01 Kopfontein: Proper maintenance of and Building related work of operational area and residential area. Maintenance is not limited to the above-mentioned				
SA.01	800,02	<b>Maintenance report</b>  The Contractor shall compile and submit a monthly facilities inspection report, in which damaged structural components and elements of buildings and facilities ("damages") shall be listed and quantified, only if such components and elements could not be maintained or corrected at the time of inspections, due to the nature of the damage, or the need for replacement of such components and elements.	points	360,00		
Carried forward						

## SCHEDULE NO 5.1: INSTALLATION KCM1: STRUCTURAL &amp; BUILDING

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE		AMOUNT
Brought forward							
SA.04	800,03	.01 Kopfontein: Comprehensive monthly facilities inspection report  Breakdown maintenance: Repair of damages remunerated for from the payment items, within the maximum allowable downtime:  <b>Payment reduction:</b>  Payment reduction due to exceeding of maximum allowable down-time during damage repair Maintenance of tools and equipment on following page:	points	360,00			Rate only
		days	-	-R	500,00		
SA.01 PS 5.1	800,04	<b>Maintenance tools and equipment</b>  The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the- spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided:					
SA.01 PS 4	800,05	.01 Maintenance: Designated lockable store room, tools/equipment and consumables for proper maintenance on-the-spot/ on-site. Lockable cabinet with duplicate keys and updated register for port of entry	points	360,00			
		<b>Programme of the Works (Construction Programme)</b>  The Contractor shall compile and submit a complete and accurate Programme of the Works 14 days after site handover and updated monthly which is linked to the expenditure and project cash flow					
SA.04 PS 4	800,06	.01 Kopfontein Programme of the Works  <u><b>LATE SUBMISSION OF ACCEPTABLE PROGRAMME OF THE WORKS</b></u>  <b>Payment reduction:</b>  Kopfontein: Payment reduction due to late submission of an adequate/acceptable Programme of the Works	points	360,00			Rate only
		days	-	-R	500,00		
Carried forward							



## SCHEDULE NO 5.1: INSTALLATION KCM1: STRUCTURAL &amp; BUILDING

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01	800,07	<b>Maintenance Control Plan</b>  The Contractor shall compile and submit a complete and accurate monthly Maintenance Control Plan (see Additional Specification SA), which shall be utilised to log and record all faults, system checks, breakdowns and site inspections.  .01 Kopfontein: Complete and accurate Maintenance Control Plan  <b>Payment reduction for late submission of the Maintenance Plan:</b>  <u><b>LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</b></u>  <b>Payment reduction:</b>	points	360,00		
SA.04 SA.05	800,08	Kopfontein: Payment reduction due to late submission of an adequate/acceptable Maintenance Control Plan	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 5.1: INSTALLATION KCM1: STRUCTURAL &amp; BUILDING - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 5.2: INSTALLATION KCM2: PLUMBING, DRAINAGE AND WET SERVICES

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	900,00	<u>SCHEDULE NO 5.2: INSTALLATION KCM2:</u> <u>KOPFONTEIN: PLUMBING, DRAINAGE AND</u> <u>WET SERVICES RELATED MAINTENANCE</u> <u>WORK</u>  <u>MAINTENANCE OF PLUMBING, SERVICES</u> <u>AND SEWER NETWORKS AT</u> <u>OPERATIONAL DRAINAGE, WET AND</u> <u>RESIDENTIAL BUILDINGS AND MOBILE</u> <u>HOMES</u>				
	900,01	<b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specification AA: <ul style="list-style-type: none"><li>- Plumbing and Drainage Installations: 10.02/1</li><li>- Rainwater Disposal System, Table AA</li><li>- Wastewater Drainage System, Table AA</li><li>- Domestic Water Distribution and Systems, Table AA 10.02/4</li><li>- Sanitary and Brassware Equipment, shall of at least, but not limited to:<ul style="list-style-type: none"><li>• Checking, inspecting, cleaning, adjusting, painting, fixing, repairing or replacing, inclusive of appurtenances of all drains and sewers including:<ul style="list-style-type: none"><li>- Pipes</li><li>- Gutters</li><li>- Catch pits</li><li>- Channel drains</li><li>- Floor outlets</li><li>- Gullies</li><li>- Manhole covers and frames</li><li>- Brackets</li><li>- Grease traps, oil separators, etc.</li><li>- Plumbing</li><li>- Water distribution including:<ul style="list-style-type: none"><li>-Pipes</li><li>-isolation</li><li>-non-return valves</li><li>-control valves</li><li>-air release valves</li><li>-other valves</li><li>-strainers</li></ul></li></ul></li></ul></li></ul>				
Carried forward						

## SCHEDULE NO 5.2: INSTALLATION KCM2: PLUMBING, DRAINAGE AND WET SERVICES

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.03		<ul style="list-style-type: none"> <li>Water closets (WC):               <ul style="list-style-type: none"> <li>Seats and covers</li> <li>Cisterns</li> <li>Sanitary ware mountings, etc.</li> </ul> </li> <li>Fixing of leaks and replacing of materials components, etc:</li> </ul>				
		.01 Kopfontein: Maintenance work: Plumbing, 'drainage, wet services and sewer of operational and residential areas and mobile homes. Maintenance is not limited to the above-mentioned	point	360,00		
		<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days		-R 2 000,00	rate only
SA.04		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-R 500,00	rate only
SA.05		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days		-R 500,00	rate only
Carried forward						

## SCHEDULE NO 5.2: INSTALLATION KCM2: PLUMBING, DRAINAGE AND WET SERVICES

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>4000,00</b>	<b><u>MAINTENANCE OF WET SERVICES</u></b>				
	<b>4101,00</b>	<b>Maintenance of a complete installation:</b>  Scheduled and unscheduled preventative maintenance and breakdown maintenance, as per Technical Specification jc: Wet services Equipment, comprising (i) maintenance related to geysers , including routine inspection of inline strainers, non-return valves, expansion relief valves, ball valves, emelemt, drain cock, thermostat and pipe work. (ii) maintenance related to water pumps, including routine inspections seals, valves, bearings, shaft and motor, at:				
	<b>4101,01</b>	<b>Kopfontein operational and residential areas:</b>				
		01 100 litre electric geyser	No	10		
		02 150 litre electric geyser	No	25		
	<b>4102,00</b>	<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days	1	-R 2 000,00	rate only
		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	7	-R 500,00	rate only
		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days	7	-R 500,00	rate only
		04 Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	hours	1	-R 1 000,00	rate only
	<b>TOTAL:</b>	<b>SCHEDULE NO 5.2: INSTALLATION KCM2: PLUMBING, DRAINAGE AND WET SERVICES - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 5.3: INSTALLATION KCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 SN.01	1000,00	<u>SCHEDULE NO5 .3: INSTALLATION CM3:</u> <u>KOPFONTEIN: FENCING, CLEANING OF</u> <u>BUILDINGS AND SITE KEEPING - RELATED</u> <u>MAINTENANCE WORK</u>				
	1000,01	<u>MAINTENANCE OF FENCING AND GATES</u>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CC: Fencing and Gates, shall consist of at least, but not limited to:  <ul style="list-style-type: none"> <li>• Clearing 2.5 m wide of fence lines (both side)</li> <li>• Cleaning fire break areas</li> <li>• Inspection and repair of damages</li> <li>• Corrosion protection on fencing, gates and tubular posts</li> <li>• Inspection of fence for tightness to straining wire and redress or repair where required</li> <li>• Inspection of gate hinges and repair or replace if necessary, ensuring alignment of gates</li> <li>• Painting of previously painted posts, mesh fences, etc. at:</li> </ul> .01 Kopfontein: Maintenance work: Perimeter fence line, at operational area and at area. Maintenance is not limited to the above- mentioned  <b>Payment reduction:</b>				
	SA.03	1000,02	days	-	-R 2 000,00	Rate only
	SA.04	1000,03	days	-	-R 500,00	Rate only
	SA.05	1000,04	days	-	-R 500,00	Rate only
Carried forward						

## SCHEDULE NO 5.3: INSTALLATION KCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01 SN.01	1000,05	<p><b><u>MAINTENANCE OF SITE KEEPING</u></b></p> <p><b>Maintenance of a complete installation:</b></p> <p>The Contractor shall attend to preventative maintenance and breakdown maintenance, as per 'Technical Specification CJ: Site Keeping and Cleaning '(CJ.01.01 and CJ.04.02.01), shall consist of at least, but 'not limited to:</p> <ul style="list-style-type: none"> <li>• Cleaning out of and supply of black refuse 'bags to all waste bins in public areas</li> <li>• Watering of plants, shrubs, grass and trees upon 'strict instruction from the Engineer (in line with 'water restrictions)</li> <li>• Removal of weeds, clearing of weeds and 'grass along the edges of paved areas</li> <li>• Cutting of grass</li> <li>• Trimming of dense shrubs</li> <li>• Fertilisation of lawns, fertilisation of flower 'beds and trees</li> <li>• Removal of undesirable shrubs</li> <li>• Trimming of trees</li> <li>• Collecting of litter and foreign objects, removal of waste, etc. at:</li> </ul> <p>.01 Kopfontein: Maintenance work: All areas included within the perimeter fence of the port of entry which includes the operational area keeping 20 m around the outside of the 'perimeter fence line</p>	point	360,00		
SA.03	1000,06	<p><b>Payment reduction:</b></p> <p>Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown</p>	days	-	-R 2 000,00	Rate only
SA.04	1000,07	<p>Payment reduction due to exceeding of allowable down-time during ordinary</p>	days	-	-R 500,00	Rate only
SA.05	1000,08	<p>Payment reduction due to exceeding of maximum allowable down-time during damage repair maintenance of installations on the following page:</p>	days	-	-R 500,00	Rate only
Carried forward						

## SCHEDULE NO 5.3: INSTALLATION KCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA.01 CJ.05  SN.01</b>	<b>1000,09</b>	<p><b><u>MAINTENANCE AND CLEANING OF BUILDINGS</u></b></p> <p><b>Maintenance of a complete installation:</b></p> <p>The Contractor shall attend to preventative 'maintenance and breakdown maintenance, as per 'Technical Specification CJ: Site Keeping and Cleaning</p> <ul style="list-style-type: none"> <li>• Dusting/wet wiping of counter tops</li> <li>• Dusting under counter shelves and floors in public areas and open plan offices (daily, before opening of port of entry)</li> <li>• Sweeping/washing and polishing office</li> <li>• Vacuum cleaning carpets</li> <li>• Emptying and cleaning of waste baskets in offices</li> <li>• Service and polishing fittings</li> <li>• Washing interior and exterior walls</li> <li>• Cleaning and maintaining ablution facilities in a sanitary condition</li> <li>• Emptying and cleaning of all waste receptacles</li> <li>• Cleaning of all bowls, basins and urinals</li> <li>• Cleaning and polishing of all fittings and mirrors</li> <li>• Washing and cleaning out of She-bins</li> <li>• Washing of windows</li> <li>• Dusting of window sills, ledges, pipes and fittings</li> <li>• Dusting of buildings interiors</li> <li>• Deep cleansing of toilets and ablution blocks every six months, etc. at:</li> </ul> <p>.01 Kopfontein: Maintenance work: Operational buildings, ablution blocks, public areas, paving 'areas, concrete screeds, etc.</p> <p><b>Payment reduction:</b></p>				
<b>SA.03</b>	<b>1000,10</b>	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>	<b>1000,11</b>	Payment reduction due to exceeding of allowable down-time during ordinary	days	-	-R 500,00	Rate only
<b>SA.05</b>	<b>1000,12</b>	Payment reduction due to exceeding of maximum allowable down-time during damage repair maintenance of installations on the following page:	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 5.3: INSTALLATION KCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 5.4: INSTALLATION KCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1100,00	<b><u>SCHEDULE NO 5.4: INSTALLATION KCM4: KOPFONTEIN: MAINTENANCE OF BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS</u></b>				
	1100,01	<b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CE: Water Distribution Networks, DA: Borehole Pump Systems, and DL Chlorination Systems for Disinfection and Reverse Osmosis Units of Drinking Water, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Routine checking, inspection, and repair of leaks/replacement of corroded pipes</li> <li>• Clean out all strainers</li> <li>• Fix and maintain all bracketing systems</li> <li>• Paint repairs to piping, fittings and equipment</li> <li>• Scour reservoirs and pipes to remove silt and deposits, empty and clean bulk water reservoirs</li> <li>• Check V-belts, MCC panels with level sensing devices and electric motors where applicable</li> <li>• Remove, inspect and service repair or replace submersible pumps</li> <li>• Service re-adjust and calibrate pressure gauges and water meters</li> <li>• Service, repair and clean chlorine dosing apparatus from blockages, etc.</li> <li>• All maintenance required to ensure efficient and sustained operation of plant at:</li> </ul>				
	.01	Kopfontein: Maintenance work: Bulk water supply systems and external water	point	360,00		
Carried forward						



**SCHEDULE NO 5.4: INSTALLATION KCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**KOPFONTEIN CIVIL  
MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA</b>	<b>1100,02</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum down-time during damage repair Operating of bulk water supply system on following page:	day	-	-R 500,00	Rate only
<b><u>OPERATING OF BULK WATER SUPPLY SYSTEM</u></b>						
<b>SF.01 DH.09.05</b>	<b>1100,03</b>	<b>Operating of installation:</b>  Operation as per Technical Specification <ul style="list-style-type: none"> <li>DH: Operation of Potable Water Works shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>Logging and recording of all pressure gauges, water meters and water level in reservoir</li> <li>Drafting of a water balance of the bulk water system (spread sheet based)</li> <li>Recording of rainfall (date, precipitation and duration per event)</li> <li>Checking integrity of power supply at MCC and verify correct switching of pumps</li> <li>Logging of all failures, malfunctions, spills, pollution events, power failures and detail</li> <li>Visual inspection daily, clean installation weekly, check and repair leaks monthly</li> <li>Keeping facilities neat and controlling access to the site</li> <li>Maintaining safety conditions on site, etc. at:</li> </ul> </li> </ul>				
		.01 Kopfontein: Operating work: Bulk water supply systems	point	360,00		
<b>SA</b>	<b>1100,04</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
Carried forward						

**SCHEDULE NO 5.4: INSTALLATION KCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**KOPFONTEIN CIVIL  
MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
SF.01	1100,05	<b>Operation of a complete installation: Water Audit:</b>  Water demand management, data logging and recording, as per: Technical Specification KA Water Audit (KA.04.01). Comprising of: <ul style="list-style-type: none"> <li>• Checking operation of water meters</li> <li>• Cleaning strainer units at water meters</li> <li>• Read water meters</li> <li>• Verification of sample meter readings</li> <li>• Updating of water demand database (spreadsheet)</li> <li>• Measuring sewer night flows</li> <li>• Analysis of data and identification of water</li> <li>• Adjust operation of pressure-reducing valves</li> <li>• Compilation of monthly water balance on volume and costs and issue of consumer accounts at:</li> </ul>				
		.01 Kopfontein: Operation work: Water audit: Operational area, residential area and mobile homes	point	360,00		
		Payment reduction due to exceeding of maximum allowable down-time during breakdown				
SA	1100,06	<b>Payment reduction:</b>				
SA.03		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
	<b>TOTAL:</b>	<b>SCHEDULE NO 5.4: INSTALLATION KCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 5.5: INSTALLATION KCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 EG.06	1200,00	<u>SCHEDULE NO. 5.5: INSTALLATION KCM5: KOPFONTEIN: WASTEWATER TREATMENT WORKS, SEWER NETWORKS AND PUMP STATION AND INLET WORKS</u>				
		<u>MAINTENANCE AND OPERATION WORK OF SEWERAGE PUMP STATION AT KOPFONTEIN:</u>				
	1200,01	<b>Maintenance and operation of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specification EB, which consists of, but is not limited to: <ul style="list-style-type: none"> <li>• Routine inspection of inlet works or as</li> <li>• Daily cleaning of inlet screen</li> <li>• Inspection and cleaning of pump station</li> <li>• Necessary cleaning and rodding of pump line</li> <li>• Inspection to ensure satisfactory operation of motor control centre</li> <li>• Repair of pump station inlet works</li> <li>• Operate and maintain in order to prevent any environmental pollution</li> <li>• Removal of invasive plants, trees and bushes around pumpstation. Etc, at:</li> </ul>				
		.01 Kopfontein: Maintenance work: Raw sewage pump station	point	360,00		
	1200,02	<b>Payment reduction:</b>				
SA						
SA.03		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
Carried forward						

**SCHEDULE NO 5.5: INSTALLATION KCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS**
**KOPFONTEIN CIVIL  
MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA.01 EG.06</b>	<b>1200,03</b>	<u><b>MAINTENANCE OF SEPTIC TANKS AND NETWORKS AT KOPFONTEIN:</b></u>  <b>Maintenance and operation of complete installation:</b>  The Contractor shall attend to scheduled and unscheduled preventative maintenance and breakdown maintenance as per Technical Specifications EG, which consist of but not limited to: <ul style="list-style-type: none"> <li>• Routine inspection of septic tanks</li> <li>• Inspection chambers covers and frames</li> <li>• Routine inspection of inlet works or as required</li> <li>• Necessary cleaning and rodding and unblocking of the bulk sewer network</li> <li>• Repair of manhole benching</li> <li>• Fixing of leaks</li> <li>• Removal of invasive plants, trees and bushes around septic tanks, etc.</li> </ul>				
<b>SA</b>	<b>1200,04</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
Carried forward						



## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 5.6: INSTALLATION KCM6: ROADS AND STORMWATER DRAINAGE

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1300,00	<u>SCHEDULE NO. 5.6: INSTALLATION KCM6: KOPFONTEIN: ROADS AND STORMWATER DRAINAGE - RELATED MAINTENANCE WORK</u>  <u>MAINTENANCE OF ROADS AND STORMWATER DRAINAGE</u>				
	1300,01	<p><b>Maintenance of a complete installation:</b></p> <p>The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CA and CB: Roads, shall consist of at least, but not limited to:</p> <ul style="list-style-type: none"><li>• Routine inspection of roads, gravel shoulders, pavements, road signs and road markings</li><li>• Blading all gravel roads and parking areas</li><li>• Removing loose material from road surfaces and the surface of parking areas by means of mechanical brooming</li><li>• Repair of all surfaces, road pavements, kerbs, road markings and signs, as well as Technical Specification CB: Stormwater drainage, shall consist of at least, but not limited to:<ul style="list-style-type: none"><li>• Inspection, cleaning, unblocking and repair of all storm water infrastructure components such as:<ul style="list-style-type: none"><li>- Culverts</li><li>- drains</li><li>- Manholes</li><li>- Inlet covers</li><li>- Inlet benching, grids and frames, etc. at:</li></ul></li></ul></li></ul> <p>.01 Kopfontein: Maintenance work: Roads and stormwater drainage at operational area and residential area</p>	point	360,00		
Carried forward						

## SCHEDULE NO 5.6: INSTALLATION KCM6: ROADS AND STORMWATER DRAINAGE

KOPFONTEIN CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA</b>	<b>1300,02</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 5.6: INSTALLATION KCM6: ROADS AND STORMWATER DRAINAGE - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 6.1: INSTALLATION SCM1: STRUCTURAL &amp; BUILDING

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1400,00	<b><u>SCHEDULE NO 6.1: INSTALLATION SCM1:</u></b>  <b><u>SWARTKOPFONTEIN - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK</u></b>  <b><u>STRUCTURAL AND BUILDING RELATED WORK</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to the following during daily inspections of all structural components and elements of buildings and facilities:  Preventative maintenance work and minor corrections of all structural and building related facilities, including components and elements such as, but not limited to: <ul style="list-style-type: none"><li>• Doors (hinges, locksets, strike plates, locks)</li><li>• Windows (pegs, stays, etc.)</li><li>• Pull handles</li><li>• Glass putty</li><li>• Fascia boards</li><li>• Roof cladding and sheeting</li><li>• Cornices</li><li>• Ceiling boards and jointing strips</li><li>• Sealant</li><li>• Skirtings, etc.</li></ul>				
	1400,01	.01 Swartkopfontein: Proper maintenance of and Building related work of operational area and residential area. Maintenance is not limited to the above-mentioned  <b>Maintenance report</b>  The Contractor shall compile and submit a monthly facilities inspection report, in which damaged structural components and elements of buildings and facilities ("damages") shall be  listed and quantified, only if such components and elements could not be maintained or corrected at the time of inspections, due to the nature of the damage, or the need for replacement of such components and elements.	points	360,00		
	Carried forward					



## SCHEDULE NO 6.1: INSTALLATION SCM1: STRUCTURAL &amp; BUILDING

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE		AMOUNT
Brought forward							
SA.04	1400,02	.01 Swartkopfontein: Comprehensive monthly facilities inspection report  Breakdown maintenance: Repair of damages remunerated for from the payment items, within the maximum allowable downtime:	points	360,00			
	1400,03	<b>Payment reduction:</b>  Payment reduction due to exceeding of maximum allowable down-time during damage repair Maintenance of tools and equipment on following page:	days	-	-R 500,00	Rate only	
SA.01 PS 5.1	1400,04	<b>Maintenance tools and equipment</b>  The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the- spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided:					
SA.01 PS 4	1400,05	.01 Maintenance: Designated lockable store room, tools/equipment and consumables for proper maintenance on-the-spot/ on-site. Lockable cabinet with duplicate keys and updated register for port of entry	points	360,00			
		<b>Programme of the Works (Construction Programme)</b>  The Contractor shall compile and submit a complete and accurate Programme of the Works 14 days after site handover and updated monthly which is linked to the expenditure and project cash flow					
SA.04 PS 4	1400,06	.01 Swartkopfontein Programme of the Works  <u>LATE SUBMISSION OF ACCEPTABLE PROGRAMME OF THE WORKS</u>	points	360,00			
		<b>Payment reduction:</b>  Swartkopfontein: Payment reduction due to submission of an adequate/acceptable Programme of the Works	days	-	-R 500,00	Rate only	
Carried forward							

## SCHEDULE NO 6.1: INSTALLATION SCM1: STRUCTURAL &amp; BUILDING

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01	1400,07	<b>Maintenance Control Plan</b>  The Contractor shall compile and submit a complete and accurate monthly Maintenance Control Plan (see Additional Specification SA), which shall be utilised to log and record all faults, system checks, breakdowns and site inspections.  .01 Swartkopfontein: Complete and accurate Maintenance Control Plan  <b>Payment reduction for late submission of the Maintenance Plan:</b>  <u><b>LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</b></u>	points	360,00		
SA.04	1400,08	<b>Payment reduction:</b>  Swartkopfontein: Payment reduction due to submission of an adequate/acceptable Maintenance Control Plan	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 6.1: INSTALLATION SCM1: STRUCTURAL &amp; BUILDING - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 6.2: INSTALLATION SCM2: PLUMBING, DRAINAGE AND WET SERVICES

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1500,00	<u>SCHEDULE NO 6.2: INSTALLATION SCM2:</u> <u>SWARTKOPFONTEIN: PLUMBING,</u> <u>DRAINAGE AND WET SERVICES RELATED</u> <u>MAINTENANCE WORK</u>  <u>MAINTENANCE OF PLUMBING, SERVICES</u> <u>AND SEWER NETWORKS AT</u> <u>OPERATIONAL DRAINAGE, WET AND</u> <u>RESIDENTIAL BUILDINGS AND MOBILE</u> <u>HOMES</u>				
	1500,01	Maintenance of a complete installation:  The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specification AA: - Plumbing and Drainage Installations: 10.02/1 - Rainwater Disposal System, Table AA - Wastewater Drainage System, Table AA - Domestic Water Distribution and Systems, Table AA 10.02/4 - Sanitary and Brassware Equipment, shall of at least, but not limited to: • Checking, inspecting, cleaning, adjusting, painting, fixing, repairing or replacing, inclusive of appurtenances of all drains and sewers including: - Pipes - Gutters - Catch pits - Channel drains - Floor outlets - Gullies - Manhole covers and frames - Brackets - Grease traps, oil separators, etc. - Plumbing - Water distribution including: -Pipes -isolation -non-return valves -control valves -air release valves -other valves -strainers				
Carried forward						

## SCHEDULE NO 6.2: INSTALLATION SCM2: PLUMBING, DRAINAGE AND WET SERVICES

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.03		<ul style="list-style-type: none"> <li>Water closets (WC):               <ul style="list-style-type: none"> <li>Seats and covers</li> <li>Cisterns</li> <li>Sanitary ware mountings, etc.</li> </ul> </li> <li>Fixing of leaks and replacing of materials components, etc:</li> </ul>				
		.01 Swartkopfontein: Maintenance work: Plumbing, 'drainage, wet services and of operational and residential areas and mobile homes. Maintenance is not limited to the above-mentioned	point	360,00		
		<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days		-R 2 000,00	rate only
SA.04		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-R 500,00	rate only
SA.05		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days		-R 500,00	rate only
Carried forward						

## SCHEDULE NO 6.2: INSTALLATION SCM2: PLUMBING, DRAINAGE AND WET SERVICES

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	4000,00	<b><u>MAINTENANCE OF WET SERVICES EQUIPMENT</u></b>				
	4101,00	<b>Maintenance of a complete installation:</b>  Scheduled and unscheduled preventative maintenance and breakdown maintenance, as per Technical Specification jc: Wet services Equipment, comprising (i) maintenance related to geysers , including routine inspection of inline strainers, non-return valves, expansion relief valves, ball valves, emelemt, drain cock, thermostat and pipe work. (ii) maintenance related to water pumps, including routine inspections seals, valves, bearings, shaft and motor, at:				
	4101,01	Swartkopfontein operational and residential				
		02 150 litre electric geyser	No	20		
	4102,00	<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days	1	-R 2 000,00	rate only
		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	7	-R 500,00	rate only
		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days	7	-R 500,00	rate only
		04 Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	hours	1	-R 1 000,00	rate only
	<b>TOTAL:</b>	<b>SCHEDULE NO 5.2: INSTALLATION SCM2: PLUMBING, DRAINAGE AND WET SERVICES - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 6.3: INSTALLATION SCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 SN.01	1000,00	<b><u>SCHEDULE NO 6.3: INSTALLATION SCM3:</u></b> <b><u>SWARTKOPFONTEIN: FENCING.</u></b> <b><u>CLEANING OF BUILDINGS AND SITE</u></b> <b><u>KEEPING - RELATED MAINTENANCE</u></b> <b><u>WORK</u></b>				
	1000,01	<b><u>MAINTENANCE OF FENCING AND GATES</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CC: Fencing and Gates, shall consist of at least, but not limited to:  <ul style="list-style-type: none"> <li>• Clearing 2.5 m wide of fence lines (both side)</li> <li>• Cleaning fire break areas</li> <li>• Inspection and repair of damages</li> <li>• Corrosion protection on fencing, gates and tubular posts</li> <li>• Inspection of fence for tightness to straining wire and redress or repair where required</li> <li>• Inspection of gate hinges and repair or replace if necessary, ensuring alignment of gates</li> <li>• Painting of previously painted posts, mesh fences, etc. at:</li> </ul> .01 Swartkopfontein: Maintenance work: Perim fence line, at operational area and at area. Maintenance is not limited to the above- mentioned  <b>Payment reduction:</b>				
	SA.03	1000,02	days	-	-R 2 000,00	Rate only
	SA.04	1000,03	days	-	-R 500,00	Rate only
	SA.05	1000,04	days	-	-R 500,00	Rate only
Carried forward						

## SCHEDULE NO 6.3: INSTALLATION SCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01 SN.01	1000,05	<b><u>MAINTENANCE OF SITE KEEPING</u></b>				
		<b>Maintenance of a complete installation:</b>				
		The Contractor shall attend to preventative maintenance and breakdown maintenance, as per 'Technical Specification CJ: Site Keeping and Cleaning '(CJ.01.01 and CJ.04.02.01), shall consist of at least, but 'not limited to:				
		<ul style="list-style-type: none"> <li>• Cleaning out of and supply of black refuse 'bags to all waste bins in public areas</li> <li>• Watering of plants, shrubs, grass and trees upon 'strict instruction from the Engineer (in line with 'water restrictions)</li> <li>• Removal of weeds, clearing of weeds and 'grass along the edges of paved areas</li> <li>• Cutting of grass</li> <li>• Trimming of dense shrubs</li> <li>• Fertilisation of lawns, fertilisation of flower 'beds and trees</li> <li>• Removal of undesirable shrubs</li> <li>• Trimming of trees</li> <li>• Collecting of litter and foreign objects, removal of waste, etc. at:</li> </ul>				
		.01 Swartkopfontein: Maintenance work: All areas included within the perimeter fence of the port of entry which includes the operational area keeping 20 m around the outside of the 'perimeter fence line	point	360,00		
SA.03	1000,06	<b>Payment reduction:</b>  Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04	1000,07	Payment reduction due to exceeding of allowable down-time during ordinary	days	-	-R 500,00	Rate only
SA.05	1000,08	Payment reduction due to exceeding of maximum allowable down-time during damage repair maintenance of installations on the	days	-	-R 500,00	Rate only
Carried forward						

## SCHEDULE NO 6.3: INSTALLATION SCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA.01 CJ.05</b>	<b>1000,09</b>	<b><u>MAINTENANCE AND CLEANING OF BUILDINGS</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative 'maintenance and breakdown maintenance, as per 'Technical Specification CJ: Site Keeping and Cleaning <ul style="list-style-type: none"> <li>• Dusting/wet wiping of counter tops</li> <li>• Dusting under counter shelves and floors in public areas and open plan offices (daily, before opening of port of entry)</li> <li>• Sweeping/washing and polishing office</li> <li>• Vacuum cleaning carpets</li> <li>• Emptying and cleaning of waste baskets in offices</li> <li>• Service and polishing fittings</li> <li>• Washing interior and exterior walls</li> <li>• Cleaning and maintaining ablution facilities in a sanitary condition</li> <li>• Emptying and cleaning of all waste receptacles</li> <li>• Cleaning of all bowls, basins and urinals</li> <li>• Cleaning and polishing of all fittings and mirrors</li> <li>• Washing and cleaning out of She-bins</li> <li>• Washing of windows</li> <li>• Dusting of window sills, ledges, pipes and fittings</li> <li>• Dusting of buildings interiors</li> <li>• Deep cleansing of toilets and ablution blocks every six months, etc. at:</li> </ul>				
<b>SN.01</b>						
		.01 Swartkopfontein: Maintenance work: Operational buildings, ablution blocks, public areas, paving 'areas, concrete screeds, etc.	point	360,00		
<b>SA.03</b>	<b>1000,10</b>	<b>Payment reduction:</b>  Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>	<b>1000,11</b>	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>	<b>1000,12</b>	Payment reduction due to exceeding of maximum allowable down-time during damage repair maintenance of installations on the following page:	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 6.3: INSTALLATION SCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING - CARRIED TO SUMMARY</b>						



## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

## KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 6.4: INSTALLATION SCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1100,00	<b><u>SCHEDULE NO S.4: INSTALLATION SCM4:</u></b>				
	1100,01	<b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CE: Water Distribution Networks, DA: Borehole Pump Systems, and DL Chlorination Systems for Disinfection and Reverse Osmosis Units of Drinking Water, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Routine checking, inspection, and repair of leaks/replacement of corroded pipes</li> <li>• Clean out all strainers</li> <li>• Fix and maintain all bracketing systems</li> <li>• Paint repairs to piping, fittings and equipment</li> <li>• Scour reservoirs and pipes to remove silt and deposits, empty and clean bulk water reservoirs</li> <li>• Check V-belts, MCC panels with level sensing devices and electric motors where applicable</li> <li>• Remove, inspect and service repair or replace submersible pumps</li> <li>• Service re-adjust and calibrate pressure gauges and water meters</li> <li>• Service, repair and clean chlorine dosing apparatus from blockages, etc.</li> <li>• All maintenance required to ensure efficient and sustained operation of plant at:</li> </ul> .01 Swartkopfontein: Maintenance work: Bulk water supply systems and external water	point	360,00		
Carried forward						

**SCHEDULE NO 6.4: INSTALLATION SCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA</b>	<b>1100,02</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum down-time during damage repair Operating of bulk water supply system on following page:	day	-	-R 500,00	Rate only
<b><u>OPERATING OF BULK WATER SUPPLY SYSTEM</u></b>						
<b>SF.01 DH.09.05</b>	<b>1100,03</b>	<b>Operating of installation:</b>  Operation as per Technical Specification <ul style="list-style-type: none"> <li>DH: Operation of Potable Water Works shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>Logging and recording of all pressure gauges, water meters and water level in reservoir</li> <li>Drafting of a water balance of the bulk water system (spread sheet based)</li> <li>Recording of rainfall (date, precipitation and duration per event)</li> <li>Checking integrity of power supply at MCC and verify correct switching of pumps</li> <li>Logging of all failures, malfunctions, spills, pollution events, power failures and detail</li> <li>Visual inspection daily, clean installation weekly, check and repair leaks monthly</li> <li>Keeping facilities neat and controlling access to the site</li> <li>Maintaining safety conditions on site, etc. at:</li> </ul> </li> </ul>				
		.01 Swartkopfontein: Operating work: Bulk water 'supply systems	point	360,00		
<b>SA</b>	<b>1100,04</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
Carried forward						

**SCHEDULE NO 6.4: INSTALLATION SCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
SF.01	1100,05	<b>Operation of a complete installation: Water</b>  Water demand management, data logging and recording, as per: Technical Specification KA Water Audit (KA.04.01). Comprising of: <ul style="list-style-type: none"> <li>• Checking operation of water meters</li> <li>• Cleaning strainer units at water meters</li> <li>• Read water meters</li> <li>• Verification of sample meter readings</li> <li>• Updating of water demand database (spreadsheet)</li> <li>• Measuring sewer night flows</li> <li>• Analysis of data and identification of water</li> <li>• Adjust operation of pressure-reducing valves</li> <li>• Compilation of monthly water balance on volume and costs and issue of consumer accounts at:</li> </ul>				
		.01 Swartkopfontein: Operation work: Water Operational area, residential area and mobile homes	point	360,00		
		Payment reduction due to exceeding of maximum allowable down-time during breakdown				
SA	1100,06	<b>Payment reduction:</b>				
SA.03		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
<b>SCHEDULE NO 6.4: INSTALLATION SCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 6.5: INSTALLATION SCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 EG.06	1800,00	<u>SCHEDULE NO. 6.5: INSTALLATION C5.MG:</u> <u>SWARTKOPFONTEIN: WASTEWATER WORKS,</u> <u>SEWER NETWORKS AND PUMP STATION</u> <u>TREATMENT AND INLET WORKS</u>				
	1800,01	<u>MAINTENANCE OF SEPTIC TANKS AND SEWER</u> <u>NETWORKS AT SWARTKOPFONTEIN:</u>  Maintenance and operation of complete installation:  Scheduled and unscheduled preventative maintenance and breakdown maintenance as per Technical Specifications CF: Sewer networks, EA: Wastewater inlet Works, EB: Pump Systems, EC: Sedimentation tanks, ED: Rotating Biologocal Contactors, EK: Valves and Sluice Gates, EQ: Reed Beds comprising routine inspection of manhole, inspection chamber covers and frames and the necessary cleaning, rodding and unblocking of the bulk sewer network and raw sewerage pump station and repair of manhole benching; fixing of leaks; cleaning and servicing of pumps including lubrication of moving parts, replacement of components, repair and corrosion protection and servicing of MCCs; maintaining all valves and sluice gates forming part of the wastewater infrastructure; checking and lubrication of sluice guide rails and hand wheels; cleaning and calibration of flow rate measurement devices; cleaning of inlet hand raked screens, washing, drying and disposal of screenings; removal and disposal of scum; removal of algae and other growths in the wastewater treatment structures; and maintenance of constructed reed beds, including removal of invasive plants, removal of trees and bushes from earth walls, harvesting reeds periodically, and cleaning inlet and outlet weirs with interconnecting pipes at:				
Carried forward						

**SCHEDULE NO 6.5: INSTALLATION SCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS**

**SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA		.01 The wastewater treatment works at Swartkopfontein Port of Entry comprise 500 m 110 mmØ HDPE sewer pipelines with 34 HDPE manholes all butt-welded to prevent any leakage into the ground, 1.5 m deep inlet works consisting of one hand raked screen and bucket operated, 4.5 m deep sewer pump comprising two sludge pumps operated by a motor control centre, two shut-off valves and non-return valves and three float switches, two 25 m x 25 m x 2.5 m deep oxidation dams comprising two 150 mmØ inlet gate valves and two Upvc outlet structures to the reed bed, 50 m x 50 m x 1.4 m deep reed bed comprising two uPVC inlet structures to the reed bed and one outlet structure for maintenance of the water level, 50 m x 50m x 1.0 m deep evaporation dam comprising one inlet structure for maintenance of water level and one irrigation pump sump with a centrifugal pump and motor, one float switch and six irrigation sprayers in a HDPE irrigation pipeline.	point	360,00		
SA.03	1800,02	<b>Payment reduction:</b> .01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04	1800,03	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05	1800,04	.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
Carried forward						

**SCHEDULE NO 6.5: INSTALLATION SCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS**

**SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SF.01	1800,05	<p><b><u>OPERATING OF WASTEWATER TREATMENT WORKS</u></b></p> <p><b>Operating of installation:</b></p> <p>Operation as per Technical Specification EM: Operate Wastewater Works, comprising logging and recording on a spread sheet database, with graphs, all wastewater operational data, including flow rates, volumes of screenings, all motor running hours, amperes and volts, and on-site chemical analysis including pH, temperature, ORP, EC, visual inspection of effluent in Imhoff cone, and semi-quantitative ammonium and nitrate, indications and observations of colour, odour, foam, scum, algae, as well as incidents and observations of raw wastewater characteristics; provision of all tools and equipment for operation, such as nets, rakes, brooms, spades, wheelbarrows; removal, washing and drying of solids (screenings, scum and debris); setting and adjustment of valves according to process configuration from time to time; scour humus tank and check clumps of floating sludge; set and adjust recycling pump period; supply chemicals for disinfection, make-up solution and set correct dosing rate; maintain site and control access to the site and attend to works 24 hours per day at:</p> <p>.01 The Swartkopfontein wastewater treatment works (preliminary classification Class E works) consists of a small inlet works with a hand raked screen, raw sewerage pump station, two oxidation ponds, one reeds bed, one evaporation pond and one irrigation system, all to be operated by one Class III process controller supervisor and three Class I and/or Class II process controllers.</p>	point	360,00		
Carried forward						

**SCHEDULE NO 6.5: INSTALLATION SCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS**

**SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA		<b>Payment reduction:</b>				
SA.03	1800,06	.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04	1800,07	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05	1800,08	.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 6.5: INSTALLATION SCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 6.6: INSTALLATION SCM6: ROADS AND STORMWATER DRAINAGE

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1300,00	<b><u>SCHEDULE NO. 3.6: INSTALLATION CM6:</u></b> <b><u>SWARTKOPFONTEIN: ROADS AND</u></b> <b><u>STORMWATER DRAINAGE - RELATED</u></b> <b><u>MAINTENANCE WORK</u></b>				
	1300,01	<b><u>MAINTENANCE OF ROADS AND</u></b> <b><u>STORMWATER DRAINAGE</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CA and CB: Roads, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Routine inspection of roads, gravel shoulders, pavements, road signs and road markings</li> <li>• Blading all gravel roads and parking areas</li> <li>• Removing loose material from road surfaces and the surface of parking areas by means of mechanical brooming</li> <li>• Repair of all surfaces, road pavements, kerbs, road markings and signs, as well as Technical Specification CB: Stormwater drainage, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Inspection, cleaning, unblocking and repair of all storm water infrastructure components such as: <ul style="list-style-type: none"> <li>- Culverts</li> <li>- drains</li> <li>- Manholes</li> <li>- Inlet covers</li> <li>- Inlet benching, grids and frames, etc. at:</li> </ul> </li> </ul> </li> </ul>				
		.01 Kopfontein: Maintenance work: Roads and stormwater drainage at operational area and residential area	point	360,00		
Carried forward						



## SCHEDULE NO 6.6: INSTALLATION SCM6: ROADS AND STORMWATER DRAINAGE

SWARTKOPFONTEIN  
CIVIL MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA</b>	<b>1300,02</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 6.6: INSTALLATION SCM6: ROADS AND STORMWATER DRAINAGE - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 7.1: INSTALLATION DCM1: STRUCTURAL &amp; BUILDING

DERDEPOORT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1400,00	<p><b><u>SCHEDULE NO 7.1: INSTALLATION DCM1:</u></b></p> <p><b><u>DERDEPOORT - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK</u></b></p> <p><b><u>STRUCTURAL AND BUILDING RELATED WORK</u></b></p> <p><b>Maintenance of a complete installation:</b></p> <p>The Contractor shall attend to the following during daily inspections of all structural components and elements of buildings and facilities:</p> <p>Preventative maintenance work and minor corrections of all structural and building related facilities, including components and elements such as, but not limited to:</p> <ul style="list-style-type: none"> <li>• Doors (hinges, locksets, strike plates, locks)</li> <li>• Windows (pegs, stays, etc.)</li> <li>• Pull handles</li> <li>• Glass putty</li> <li>• Fascia boards</li> <li>• Roof cladding and sheeting</li> <li>• Cornices</li> <li>• Ceiling boards and jointing strips</li> <li>• Sealant</li> <li>• Skirtings, etc.</li> </ul>				
	1400,01	<p>.01 Derdepoort: Proper maintenance of and Building related work of operational area and residential area. Maintenance is not limited to the above-mentioned</p> <p><b>Maintenance report</b></p> <p>The Contractor shall compile and submit a monthly facilities inspection report, in which damaged structural components and elements of buildings and facilities ("damages") shall be listed and quantified, only if such components and elements could not be maintained or corrected at the time of inspections, due to the nature of the damage, or the need for replacement of such components and elements.</p>	points	360,00		
Carried forward						

## SCHEDULE NO 7.1: INSTALLATION DCM1: STRUCTURAL &amp; BUILDING

DERDEPOORT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.04	1400,02	.01 Derdepoort: Comprehensive monthly facilities inspection report  Breakdown maintenance: Repair of damages remunerated for from the payment items, within the maximum allowable downtime:	points	360,00		
	1400,03	<b>Payment reduction:</b>  Payment reduction due to exceeding of maximum allowable down-time during damage repair Maintenance of tools and equipment on following page:	days	-	-R 500,00	Rate only
SA.01 PS 5.1	1400,04	<b>Maintenance tools and equipment</b>  The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the- spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided:				
SA.01 PS 4	1400,05	.01 Maintenance: Designated lockable store room, tools/equipment and consumables for proper maintenance on-the-spot/ on-site. Lockable cabinet with duplicate keys and updated register for port of entry  <b>Programme of the Works (Construction Programme)</b>  The Contractor shall compile and submit a complete and accurate Programme of the Works 14 days after site handover and updated monthly which is linked to the expenditure and project cash flow	points	360,00		
	1400,06	.01 Derdepoort Programme of the Works  <u><b>LATE SUBMISSION OF ACCEPTABLE PROGRAMME OF THE WORKS</b></u>  <b>Payment reduction:</b>  Derdepoort: Payment reduction due to late submission of an adequate/acceptable Programme of the Works	points	360,00		
SA.04 PS 4	1400,06	<b>Payment reduction:</b>  Derdepoort: Payment reduction due to late submission of an adequate/acceptable Programme of the Works	days	-	-R 500,00	Rate only
Carried forward						

## SCHEDULE NO 7.1: INSTALLATION DCM1: STRUCTURAL &amp; BUILDING

DERDEPOORT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01	1400,07	<b>Maintenance Control Plan</b>  The Contractor shall compile and submit a complete and accurate monthly Maintenance Control Plan (see Additional Specification SA), which shall be utilised to log and record all faults, system checks, breakdowns and site inspections.  .01 Derdepoort: Complete and accurate Maintenance Control Plan  <b>Payment reduction for late submission of the Maintenance Plan:</b>  <u><b>LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</b></u>	points	360,00		
SA.04	1400,08	<b>Payment reduction:</b>  Derdepoort: Payment reduction due to late submission of an adequate/acceptable Maintenance Control Plan	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 7.1: INSTALLATION DCM1: STRUCTURAL &amp; BUILDING - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 7.2: INSTALLATION DCM2: PLUMBING, DRAINAGE AND WET SERVICES

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1500,00	<u>SCHEDULE NO 7.2: INSTALLATION DCM2:</u> <u>DERDEPOORT: PLUMBING, DRAINAGE</u> <u>AND WET SERVICES RELATED</u> <u>MAINTENANCE WORK</u>  <u>MAINTENANCE OF PLUMBING, SERVICES</u> <u>AND SEWER NETWORKS AT</u> <u>OPERATIONAL DRAINAGE, WET AND</u> <u>RESIDENTIAL BUILDINGS AND MOBILE</u> <u>HOMES</u>				
	1500,01	Maintenance of a complete installation:  The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specification AA: - Plumbing and Drainage Installations: 10.02/1 - Rainwater Disposal System, Table AA - Wastewater Drainage System, Table AA - Domestic Water Distribution and Systems, Table AA 10.02/4 - Sanitary and Brassware Equipment, shall of at least, but not limited to: • Checking, inspecting, cleaning, adjusting, painting, fixing, repairing or replacing, inclusive of appurtenances of all drains and sewers including: - Pipes - Gutters - Catch pits - Channel drains - Floor outlets - Gullies - Manhole covers and frames - Brackets - Grease traps, oil separators, etc. - Plumbing - Water distribution including: -Pipes -isolation -non-return valves -control valves -air release valves -other valves -strainers				
Carried forward						

## SCHEDULE NO 7.2: INSTALLATION DCM2: PLUMBING, DRAINAGE AND WET SERVICES

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.03		<ul style="list-style-type: none"> <li>Water closets (WC):               <ul style="list-style-type: none"> <li>Seats and covers</li> <li>Cisterns</li> <li>Sanitary ware mountings, etc.</li> </ul> </li> <li>Fixing of leaks and replacing of materials components, etc:</li> </ul>				
		.01 Derdepoort: Maintenance work: Plumbing, 'drainage, wet services and sewer of operational and residential areas and mobile homes. Maintenance is not limited to the above-mentioned	point	360,00		
		<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days		-R 2 000,00	rate only
SA.04		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-R 500,00	rate only
SA.05		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days		-R 500,00	rate only
Carried forward						

## SCHEDULE NO 7.2: INSTALLATION DCM2: PLUMBING, DRAINAGE AND WET SERVICES

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	4000,00	<b><u>MAINTENANCE OF WET SERVICES EQUIPMENT</u></b>				
	4101,00	<b>Maintenance of a complete installation:</b>  Scheduled and unscheduled preventative maintenance and breakdown maintenance, as per Technical Specification jc: Wet services Equipment, comprising (i) maintenance related to geysers , including routine inspection of inline strainers, non-return valves, expansion relief valves, ball valves, emelemt, drain cock, thermostat and pipe work. (ii) maintenance related to water pumps, including routine inspections seals, valves, bearings, shaft and motor, at:				
	4101,01	Derdepoort operational and residential areas:				
		01 100 litre electric geyser	No	5		
		02 150 litre electric geyser	No	10		
	4102,00	<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days	1	-R 2 000,00	rate only
		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	7	-R 500,00	rate only
		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days	7	-R 500,00	rate only
		04 Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	hours	1	-R 1 000,00	rate only
	<b>TOTAL:</b>	<b>SCHEDULE NO 7.2: INSTALLATION DCM2: PLUMBING, DRAINAGE AND WET SERVICES - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 7.3: INSTALLATION DCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 SN.01	1000,00	<b><u>SCHEDULE NO 7.3: INSTALLATION CM3: DERDEPOORT: FENCING, CLEANING OF BUILDINGS AND SITE KEEPING - RELATED MAINTENANCE WORK</u></b>				
	1000,01	<b><u>MAINTENANCE OF FENCING AND GATES</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CC: Fencing and Gates, shall consist of at least, but not limited to:  <ul style="list-style-type: none"> <li>• Clearing 2.5 m wide of fence lines (both side)</li> <li>• Cleaning fire break areas</li> <li>• Inspection and repair of damages</li> <li>• Corrosion protection on fencing, gates and tubular posts</li> <li>• Inspection of fence for tightness to straining wire and redress or repair where required</li> <li>• Inspection of gate hinges and repair or replace if necessary, ensuring alignment of gates</li> <li>• Painting of previously painted posts, mesh fences, etc. at:</li> </ul> .01 Derdepoort: Maintenance work: Perimeter fence line, at operational area and at area. Maintenance is not limited to the above- mentioned				
			point	360,00		
	SA.03 1000,02	Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 2 000,00	Rate only
	SA.04 1000,03	Payment reduction due to exceeding of allowable down-time during ordinary	days	-	-R 500,00	Rate only
SA.05	1000,04	Payment reduction due to exceeding of maximum allowable down-time during damage repair maintenance of installations on the	days	-	-R 500,00	Rate only
Carried forward						



## SCHEDULE NO 7.3: INSTALLATION DCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01 SN.01	1000,05	<b><u>MAINTENANCE OF SITE KEEPING</u></b>				
		<b>Maintenance of a complete installation:</b>				
		The Contractor shall attend to preventative maintenance and breakdown maintenance, as per 'Technical Specification CJ: Site Keeping and Cleaning '(CJ.01.01 and CJ.04.02.01), shall consist of at least, but 'not limited to:				
		<ul style="list-style-type: none"> <li>• Cleaning out of and supply of black refuse 'bags to all waste bins in public areas</li> <li>• Watering of plants, shrubs, grass and trees upon 'strict instruction from the Engineer (in line with 'water restrictions)</li> <li>• Removal of weeds, clearing of weeds and 'grass along the edges of paved areas</li> <li>• Cutting of grass</li> <li>• Trimming of dense shrubs</li> <li>• Fertilisation of lawns, fertilisation of flower 'beds and trees</li> <li>• Removal of undesirable shrubs</li> <li>• Trimming of trees</li> <li>• Collecting of litter and foreign objects, removal of waste, etc. at:</li> </ul>				
		.01 Derdepoort: Maintenance work: All areas included within the perimeter fence of the port of entry which includes the operational area keeping 20 m around the outside of the 'perimeter fence line	point	360,00		
SA.03	1000,06	<b>Payment reduction:</b>  Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04	1000,07	Payment reduction due to exceeding of allowable down-time during ordinary	days	-	-R 500,00	Rate only
SA.05	1000,08	Payment reduction due to exceeding of maximum allowable down-time during damage repair maintenance of installations on the following page:	days	-	-R 500,00	Rate only
Carried forward						

## SCHEDULE NO 7.3: INSTALLATION DCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA.01 CJ.05</b>	<b>1000,09</b>	<b><u>MAINTENANCE AND CLEANING OF BUILDINGS</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative 'maintenance and breakdown maintenance, as per 'Technical Specification CJ: Site Keeping and Cleaning <ul style="list-style-type: none"> <li>• Dusting/wet wiping of counter tops</li> <li>• Dusting under counter shelves and floors in public areas and open plan offices (daily, before opening of port of entry)</li> <li>• Sweeping/washing and polishing office</li> <li>• Vacuum cleaning carpets</li> <li>• Emptying and cleaning of waste baskets in offices</li> <li>• Service and polishing fittings</li> <li>• Washing interior and exterior walls</li> <li>• Cleaning and maintaining ablution facilities in a sanitary condition</li> <li>• Emptying and cleaning of all waste receptacles</li> <li>• Cleaning of all bowls, basins and urinals</li> <li>• Cleaning and polishing of all fittings and mirrors</li> <li>• Washing and cleaning out of She-bins</li> <li>• Washing of windows</li> <li>• Dusting of window sills, ledges, pipes and fittings</li> <li>• Dusting of buildings interiors</li> <li>• Deep cleansing of toilets and ablution blocks every six months, etc. at:</li> </ul>				
<b>SN.01</b>						
		.01 Derdepoort: Maintenance work: Operational buildings, ablution blocks, public areas, paving 'areas, concrete screeds, etc.	point	360,00		
		<b>Payment reduction:</b>				
<b>SA.03</b>	<b>1000,10</b>	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>	<b>1000,11</b>	Payment reduction due to exceeding of allowable down-time during ordinary	days	-	-R 500,00	Rate only
<b>SA.05</b>	<b>1000,12</b>	Payment reduction due to exceeding of maximum allowable down-time during damage repair maintenance of installations on the following page:	days	-	-R 500,00	Rate only
	<b>TOTAL:</b>	<b>SCHEDULE NO 7.3: INSTALLATION DCM3: FENCING, CLEANING OF BUILDINGS &amp; SITE KEEPING - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 7.4: INSTALLATION DCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

DERDEPOORT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1100,00	<b><u>SCHEDULE NO 7.4: INSTALLATION DCM4: DERDEPOORT: MAINTENANCE OF BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS</u></b>				
	1100,01	<b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CE: Water Distribution Networks, DA: Borehole Pump Systems, and DL Chlorination Systems for Disinfection and Reverse Osmosis Units of Drinking Water, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Routine checking, inspection, and repair of leaks/replacement of corroded pipes</li> <li>• Clean out all strainers</li> <li>• Fix and maintain all bracketing systems</li> <li>• Paint repairs to piping, fittings and equipment</li> <li>• Scour reservoirs and pipes to remove silt and deposits, empty and clean bulk water reservoirs</li> <li>• Check V-belts, MCC panels with level sensing devices and electric motors where applicable</li> <li>• Remove, inspect and service repair or replace submersible pumps</li> <li>• Service re-adjust and calibrate pressure gauges and water meters</li> <li>• Service, repair and clean chlorine dosing apparatus from blockages, etc.</li> <li>• All maintenance required to ensure efficient and sustained operation of plant at:</li> </ul>				
		.01 Derdepoort: Maintenance work: Bulk water supply systems and external water	point	360,00		
Carried forward						

**SCHEDULE NO 7.4: INSTALLATION DCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**DERDEPOORT CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA</b>	<b>1100,02</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum down-time during damage repair Operating of bulk water supply system on following page:	day	-	-R 500,00	Rate only
<b><u>OPERATING OF BULK WATER SUPPLY SYSTEM</u></b>						
<b>SF.01 DH.09.05</b>	<b>1100,03</b>	<b>Operating of installation:</b>  Operation as per Technical Specification <ul style="list-style-type: none"> <li>DH: Operation of Potable Water Works shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>Logging and recording of all pressure gauges, water meters and water level in reservoir</li> <li>Drafting of a water balance of the bulk water system (spread sheet based)</li> <li>Recording of rainfall (date, precipitation and duration per event)</li> <li>Checking integrity of power supply at MCC and verify correct switching of pumps</li> <li>Logging of all failures, malfunctions, spills, pollution events, power failures and detail</li> <li>Visual inspection daily, clean installation weekly, check and repair leaks monthly</li> <li>Keeping facilities neat and controlling access to the site</li> <li>Maintaining safety conditions on site, etc. at:</li> </ul> </li> </ul>				
		.01 Derdepoort: Operating work: Bulk water 'supply systems	point	360,00		
<b>SA</b>	<b>1100,04</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
Carried forward						

**SCHEDULE NO 7.4: INSTALLATION DCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**DERDEPOORT CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
SF.01	1100,05	<b>Operation of a complete installation: Water Audit:</b>  Water demand management, data logging and recording, as per: Technical Specification KA Water Audit (KA.04.01). Comprising of: <ul style="list-style-type: none"> <li>• Checking operation of water meters</li> <li>• Cleaning strainer units at water meters</li> <li>• Read water meters</li> <li>• Verification of sample meter readings</li> <li>• Updating of water demand database (spreadsheet)</li> <li>• Measuring sewer night flows</li> <li>• Analysis of data and identification of water</li> <li>• Adjust operation of pressure-reducing valves</li> <li>• Compilation of monthly water balance on volume and costs and issue of consumer accounts at:</li> </ul>				
		.01 Derdepoort: Operation work: Water audit: Operational area, residential area and mobile homes	point	360,00		
		Payment reduction due to exceeding of maximum allowable down-time during breakdown				
SA	1100,06	<b>Payment reduction:</b>				
SA.03		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
<b>SCHEDULE NO 7.4: INSTALLATION DCM4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 7.5: INSTALLATION DCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

DERDEPOORT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 EG.06	1800,00	<u>SCHEDULE NO 7.5: INSTALLATION DCM5:</u> <u>DERDEPOORT: WASTEWATER TREATMENT</u> <u>WORKS, SEWER NETWORKS AND PUMP STATION</u> <u>AND INLET WORKS</u>				
		<u>MAINTENANCE OF SEPTIC TANKS AND SEWER</u> <u>NETWORKS AT DERDEPOORT:</u>				
	1800,01	Maintenance and operation of complete installation:  The Contractor shall attend to scheduled and unscheduled preventative maintenance and breakdown maintenance as per Technical Specifications EG, which consist of but not limited to: <ul style="list-style-type: none"> <li>• Routine inspection of septic tanks</li> <li>• Inspection chambers covers and frames</li> <li>• Routine inspection of inlet works or as required</li> <li>• Necessary cleaning and rodding and unblocking of the bulk sewer network</li> <li>• Repair of manhole benching</li> <li>• Fixing of leaks</li> <li>• Removal of invasive plants, trees and bushes around septic tanks, etc.</li> </ul>				
		.01 Derdepoort: Maintenance work: Septic tank and sewer networks:	point	360,00		
		<b>Payment reduction:</b>				
SA.03	1800,02	.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
SA.04	1800,03	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
SA.05	1800,04	.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
Carried forward						

**SCHEDULE NO 7.5: INSTALLATION DCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS**
**DERDEPOORT CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SF.01 EG.01 EG.06	1800,05	<b><u>SEPTIC TANKS</u></b>				
		<b>Desludge septic tanks:</b>				
		The Contractor shall attend to preventative maintenance, which consist of, but not limited to: <ul style="list-style-type: none"> <li>Check and log scum, water and sludge depths in septic tank. If sludge depth exceeds 50% of tank depth, desludge the tank. Desludge tank once per year. Inspection is monthly</li> <li>Monitor pollution risk of septic tanks close to boreholes.</li> </ul>				
		.01 Derdepoort septic tanks: Check, desludge, cleaning out and dispose of contents off-site and provide certificate in accordance with specifications. Fill septic tank with water just above inlet pipe (T-piece)	point	60,00		
SA	1800,06	<b>Payment reduction:</b>				
SA.03		.01 Payment reduction due to exceeding of maximum allowable sludge build-up in collector tanks	day	-	-R 2 000,00	Rate only
	<b>TOTAL: SCHEDULE NO 7.5: INSTALLATION DCM5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS - CARRIED TO SUMMARY</b>					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTDerdepoort AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 7.6: INSTALLATION KCM6: ROADS AND STORMWATER DRAINAGE

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1300,00	<b><u>SCHEDULE NO. 7.6: INSTALLATION CM6: DERDEPOORT: ROADS AND STORMWATER DRAINAGE - RELATED MAINTENANCE WORK</u></b>				
	1300,01	<b><u>MAINTENANCE OF ROADS AND STORMWATER DRAINAGE</u></b>  <b>Maintenance of a complete installation:</b>  The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CA and CB: Roads, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Routine inspection of roads, gravel shoulders, pavements, road signs and road markings</li> <li>• Blading all gravel roads and parking areas</li> <li>• Removing loose material from road surfaces and the surface of parking areas by means of mechanical brooming</li> <li>• Repair of all surfaces, road pavements, kerbs, road markings and signs, as well as Technical Specification CB: Stormwater drainage, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Inspection, cleaning, unblocking and repair of all storm water infrastructure components such as: <ul style="list-style-type: none"> <li>- Culverts</li> <li>- drains</li> <li>- Manholes</li> <li>- Inlet covers</li> <li>- Inlet benching, grids and frames, etc. at:</li> </ul> </li> </ul> </li> </ul>				
		.01 Derdepoort: Maintenance work: Roads and stormwater drainage at operational area and residential area	point	360,00		
Carried forward						



## SCHEDULE NO 7.6: INSTALLATION KCM6: ROADS AND STORMWATER DRAINAGE

DERDEPOORT CIVIL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA</b>	<b>1300,02</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 2 000,00	Rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 500,00	Rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	Rate only
<b>TOTAL: SCHEDULE NO 7.6: INSTALLATION DCM6: ROADS AND STORMWATER DRAINAGE - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SUMMARY OF SCHEDULE OF QUANTITIES: ELECTRICAL MAINTENANCE WORK

				TENDER
<b><u>KOPFONTEIN</u></b>				
Schedule No.	8.1	Installation KEM1:	Buildng Electrical	R .....
Schedule No.	8.2	Installation KEM2:	Stanby Power Systems	R .....
Schedule No.	8.3	Installation KEM3 :	External Lighting	R .....
<b><u>DERDEPOORT</u></b>				
Schedule No.	9.1	Installation DEM1 :	Buildng Electrical	R .....
Schedule No.	9.2	Installation DEM2 :	Stanby Power Systems	R .....
Schedule No.	9.3	Installation DEM3	External Lighting	R .....
<b><u>SWARTKOPFONTEIN</u></b>				
Schedule No.	10.1	Installation SEM1 :	Buildng Electrical	R .....
Schedule No.	10.2	Installation SEM2 :	Stanby Power Systems	R .....
Schedule No.	10,3	Installation SEM3	External Lighting	R .....

---

**TOTAL OF BILL OF QUANTITIES: ELECTRICAL MAINTENANCE WORK  
CARRIED TO CALCULATION OF TENDER SUM**


---

R .....

SIGNED ON BEHALF OF THE TENDERER: .....

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

## KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 8.1: INSTALLATION KEM 1: BUILDING AND SITE ELECTRICAL

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
HA.12	3200,0	<u>MAINTENANCE OF BUILDING ELECTRICAL SERVICES AT KOPFONTEIN PORT OF ENTRY</u>				
SA.01 SA	3200,01	<p><u>Maintenance of a complete installation:</u></p> <p>Scheduled and non-scheduled preventative maintenance and breakdown maintenance of the complete electrical installation by a competent person as per technical specification AB: Building Electrical installations (A.11 maintenance of the installation) comprising inter alia:</p> <p>Check operation, servicing, testing and measuring, repair or replacement of all (a) lamps and luminaires and lamp holders, (b) switching elements devices, and (c) meters and metering equipment, (d) protective and monitoring devices, (e) earthing, bonding and lightning protection, (f) switch socket outlets, (g) distribution boards, (h) isolators and, light switches, lamp holders and control devices, (j) cables, overhead mains and (k) appliances, (i) wiring of all equipment and appliances</p> <p>measuring, logging and recording of phase voltages and currents and kWh energy usage of all buildings and installations, separately and</p> <p>drafting and updating keep of all new and existing electrical system diagrams, cable route plans, including schematic diagrams, operational instructions,</p> <p>engraved or embossed labelling of all distribution boards, electrical equipment, cables and wiring, lighting poles, with the required information, and such similar information, and NOSA-type including engraved labelling on face plates or bodies of light switches, socket outlets and isolators and legend cards showing all the equipment inside distribution kioks/ boxes/boards and</p>				
Carried forward						

## SCHEDULE NO 8.1: INSTALLATION KEM 1: BUILDING AND SITE ELECTRICAL

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB 11	3200,02	<p>.05 witnessed testing of all earth leakage protection units, on all socket outlet units</p> <p>'the following installations:</p> <p><b>.01 Operational Area Section A (quantities</b></p> <p><b>No Item</b></p> <p>25 Buildings and structures</p> <p>34 Earthing and bonding</p> <p>1 Metering and distribution kiosks and boxes</p> <p>35 Distribution Boards</p> <p>33 Main switches</p> <p>28 Earth leakage protection</p> <p>108 Lightning protection &amp; L/A Fuses in DBs</p> <p>10 3 phase contactors(20-100A) &amp; timer switches</p> <p>22 3 phase circuit breakers</p> <p>287 Single phase circuit breakers</p> <p>25 kWh meters</p> <p>219 Power skirting</p> <p>258 Switch socket outlets (16A)</p> <p>80 Isolating switches</p> <p>48 Uninterrupted power supplies</p> <p>11 Ceiling fans</p> <p>16 Hand dryers</p> <p>34 Air conditioner supplies</p> <p>6 Geyser and instant water heaters supplies</p> <p>2 Stoves</p> <p>136 Light switches</p> <p>251 Light fittings</p> <p>Including all the low voltage underground cable, poles, stays and stay wires and overhead mains, interior and exterior wiring of building</p>	points	360		
AB 11	3200,03	<p><b>.02 Housing Area Section B (quantities and description), including inter alia:</b></p> <p><b>No Item</b></p> <p>37 Buildings and structures</p> <p>50 Earthing and bonding</p> <p>7 Metering and distribution kiosks and boxes</p> <p>39 Distribution Boards</p> <p>39 Main switches</p> <p>39 Earth leakage protection</p>				
Carried forward						

## SCHEDULE NO 8.1: INSTALLATION KEM 1: BUILDING AND SITE ELECTRICAL

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB 11	3200,04	78 Lightning protection & L/A Fuses in DBs 3 3 phase contactors(20-100A) & timer switches 2 3 phase circuit breakers 215 Single phase circuit breakers 37 kWh meters 196 Switch socket outlets (16A) 101 Isolating switches 14 Air conditioner supplies 34 Geyser and instant water heaters supplies 36 Stoves 167 Light switches 302 Light fittings  Including all the low voltage underground cable,poles, stays and stay wires and overhead mains, interior and exterior wiring of buildings.	points	360		
		.03 Modular housing area  No Item  13 Buildings and structures 13 Earthing and bonding 3 Metering and distribution kiosks and boxes 13 Distribution Boards 13 Main switches 13 Earth leakage protection 27 Lightning protection & L/A Fuses in DBs 71 Single phase circuit breakers 13 kWh meters 68 Switch socket outlets (16A) 48 Isolating switches 11 Air conditioner supplies 12 Geyser and instant water heaters supplies 6 Stoves 75 Light switches 102 Light fittings  Including all the low voltage underground cable, interior and exterior wiring of buildings.	Points	360,000		
		Carried forward				

## SCHEDULE NO 8.1: INSTALLATION KEM 1: BUILDING AND SITE ELECTRICAL

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.01	3200,050	<u>Repair/replace meter and or distribution boxes/ kiosks</u>	number	2		
	3201,00	Payment reduction:				
SA.03	.01	Payment reduction due to exceeding of maximum allowable downtime during emergency breakdown	Day	-	-R 1 000,00	rate only
SA.04	.02	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	Day	-	-R 100,00	rate only
SA.05	.03	Payment reduction due to exceeding of maximum down-time during damage repair	Day	-	-R 100,00	rate only
TOTAL: SCHEDULE NO 8.1: INSTALLATION KEM1: BUILDING AND SITE ELECTRICAL - CARRIED TO SUMMARY						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 8.2: INSTALLATION KEM2: STANBY POWER SYSTEMS

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	3300,00	<u>MAINTENANCE OF STANDBY POWER GENERATOR INSTALLATION AT KOPFONTEIN PORT OF ENTRY</u>  <u>Maintenance of a complete installation:</u>  Scheduled and unscheduled preventative maintenance and breakdown maintenance as per Technical specification HB: Standby power systems, comprising at least: checking, recording and resetting as necessary of oil level; oil viscosity for dilution by water or fuel; starter battery terminals and apply contact grease; battery cables for damages and secure terminations; battery electrolyte; battery voltage; battery vlotage drop during engine cranking; battery charger operation after cranking test; starter motor for abnormal noise; diesel engine while running for noise, vibration, loose components; flexible hoses for leaks, corrosion and ageing; engine V-belts, engine/ alternator coupling for noise; alternator for accumulation of dust on the regularator and for any loose components, as well as testing on load for recording of volt, ampere and frequency readings, recording running hours, diesel consumption, verification of all alarm functions, i.e. low oil pressure, high engine temperature, low engine coolant level, abnormal speed, synchronising failure, cooling water pump failure, cooling tower fan failure, low battery voltage, low fuel day tank, and all work necessary to rectify malfunction, at:				
	3300,01	.01 One 100kVA diesel generator, one 5kVA UPS and one 6kVA UPS units at Kopfontein port of Entry	point	360		
Carried forward						

## SCHEDULE NO 8.2: INSTALLATION KEM2: STANBY POWER SYSTEMS

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB 06.03.23	3300,10	Provision of diesel over the three year				
		.01 Diesel consumption per month: Calculate on projected Average.	I	40000		
	3300,02	Payment reduction:				
	SA.03 3300,03	.01 Payment reduction due to exceeding of maximum allowable downtime during emergency breakdown	Day	-	-R 1 000,00	rate only
	SA.04 3300,04	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary emergency breakdown	Day	-	-R 100,00	rate only
SA.05	3300,05	.03 Payment reduction due to exceeding of maximum down-time during malicious damage repair	Day	-	-R 100,00	rate only
TOTAL: SCHEDULE NO 8.2: INSTALLATION KEM2: STANBY POWER SYSTEMS - CARRIED TO SUMMARY						



## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 8.3: INSTALLATION KEM3: EXTERNAL LIGHTING

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
HA.12	3400,00	<u>MAINTENANCE OF EXTERNAL LIGHTING INSTALLATIONS AT KOPFONTEIN PORT OF ENTRY</u>				
SA.01	3400,01	<b>Maintenance of a complete installation:</b>				
SA		scheduled and unscheduled preventative maintenance and breakdown maintenance by a competent person, as per Technical specification HE: Exterior lighting systems, comprising atleast:				
SA		.01 Verify operation of switching elements and all internal components of the luminaires and replace non-functional items,				
		.02 Check and inspect and where necessary replace deteriorated luminaires, internal components and lamps,				
		.03 ensure steel poles connection box cover plates are weather proof, seal in good condition, ensure that all pole covers are secure.				
		.04 ensure proper earthing of all steel lighting poles, scissor masts at all times, maintain earth connection at footing, record values annually.				
	2,00	.05 apply vermin proofing,				
		.06 inspect and service junction boxes, circuit breakers, wiring and connectings and ensure correct phase voltages and currents				
SA 06.04		.07 ensure that all lighting poles, scissor and high masts are straight				
Carried forward						

## SCHEDULE NO 8.3: INSTALLATION KEM3: EXTERNAL LIGHTING

KOPFONTEIN  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA 06.06		at <b>Kopfontein's</b> external lighting installations	point	360		
	.01	32 Galvanised steel area light poles, internal junction boxes and Luminaires				
	.02	37 Wooden security light poles junction boxes and luminaires				
	.03	20 Post top street light mounted on fibre glass poles internal junction box and luminaires				
SA.01	3400,02	<b>Maintenance of a complete installation</b>				
HA.12		.01 External Lighting installation	point	360		
	3401,00	<b>Payment reduction:</b>				
SA.03	3401,01	.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1 000,00	rate only
SA.04	3401,02	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 100,00	rate only
SA.05	3401,03	.03 Payment reduction due to exceeding of maximum allowable down-time during malicious damage breakdown	days	-	-R 100,00	rate only
<b>TOTAL: SCHEDULE NO 8.3: INSTALLATION KEM3: EXTERNAL LIGHTING - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

## KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 9.1: INSTALLATION DEM 1: BUILDING AND SITE ELECTRICAL

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01  SA	3500,00	<b><u>MAINTENANCE OF BUILDING AND SITE ELECTRICAL SERVICES AT DERDEPOORT PORT OF ENTRY</u></b>				
	3500,00	<p><b><u>maintenance of a complete installation:</u></b></p> <p>Scheduled and non-scheduled preventative maintenance and breakdown maintenance of the complete electrical installation by a competent person as per technical specification AB: Building Electrical installations (AB.11 maintenance of the installation) comprising inter alia:</p> <p>Check operation, servicing, testing and measuring, repair or replacement of all (a) lamps and luminaires and lamp holders, (b) switching elements devices, and (c) meters and metering equipment, (d) protective and monitoring devices, (e) earthing, bonding and lighting protection, (f) switch socket outlets, (g) distribution boards, (h) isolators and, light switches, lamp holders and control devices, (j) cables, overhead mains and (k) appliances, (i) wiring of all equipment and appliances</p> <p>measuring, logging and recording of phase voltages and currents and kWh energy usage of all buildings and installations, separately and</p> <p>drafting and updating keep of all new and existing electrical system diagrams, cable route plans, including schematic diagrams, operational instructions, engraved or embossed labelling of all distribution boards, electrical equipment, cables and wiring, lighting poles, with the required information, and such similar information, and NOSA-type including engraved labelling on face plates or bodies of light switches, socket outlets and isolators and legend cards showing all the equipment inside distribution kiosks/ boxes/boards and</p> <p>witnessed testing of all earth leakage protection units, on all socket outlet units</p>				
Carried forward						

## SCHEDULE NO 9.1: INSTALLATION DEM 1: BUILDING AND SITE ELECTRICAL

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.11	3500,01	.01 <b>Operational Area Section A (quantities and description ), including inter alia:</b>  <b>No Item</b>  11 Buildings and structures 12 Earthing and bonding 1 Metering and distribution kiosks and boxes 13 Distribution Boards 10 Main switches 9 Earth leakage protection 60 Lightning protection & L/A Fuses in DBs 1 3 phase contactors(20-100A) & timer switches 2 3 phase circuit breakers 81 Single phase circuit breakers 11 kWh meters ## Power skirting 29 Switch socket outlets (16A) 26 Isolating switches 11 Uninterrupted power supplies 3 Ceiling fans 9 Hand dryers 9 Air conditioner supplies 2 Geyser and instant water heaters supplies 42 Light switches 54 Light fittings  Including all the low voltage underground cable, interior and exterior wiring of building	points	360		
AB.11	3500,02	.02 <b>Housing Area Section B (quantities and description), including inter alia:</b>  <b>No Item</b>  11 Buildings and structures 23 Earthing and bonding 1 Metering and distribution kiosks and boxes 10 Distribution Boards 11 Main switches 10 Earth leakage protection 16 Lightning protection & L/A Fuses in DBs 98 Single phase circuit breakers 11 kWh meters 66 Switch socket outlets (16A) 64 Isolating switches				
Carried forward						

## SCHEDULE NO 9.1: INSTALLATION DEM 1: BUILDING AND SITE ELECTRICAL

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		22 Air conditioner supplies 8 Geyser and instant water heaters supplies 8 Stoves 94 Light switches ## Light fittings  Including all the low voltage underground cable, interior and exterior wiring of building	points	360		
	3501,00	Payment reduction:				
SA.03	3501,01	.01 Payment reduction due to exceeding of maximum allowable downtime during emergency breakdown	Day	-	-R 1 000,00	rate only
SA.04	3501,02	.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	Day	-	-R 100,00	rate only
SA.05	3501,03	.03 Payment reduction due to exceeding of maximum down-time during damage repair	Day	-	-R 100,00	rate only
	TOTAL: SCHEDULE NO 9.1: INSTALLATION DEM1: BUILDING AND SITE ELECTRICAL - CARRIED TO SUMMARY					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

SCHEDULE NO 9.2: INSTALLATION DEM5: STANBY POWER SYSTEMS

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	3600,00	<p><u>MAINTENANCE OF STANDBY POWER GENERATOR INSTALLATION AT DERDEPOORT PORT OF ENTRY</u></p> <p><u>Maintenance of a complete installation:</u></p> <p>Scheduled and unscheduled preventative maintenance and breakdown maintenance as per Technical specification HB: Standby power systems, comprising at least: checking, recording and resetting as necessary of oil level; oil viscosity for dilution by water or fuel; starter battery terminals and apply contact grease; battery cables for damages and secure terminations; battery electrolyte; battery voltage; battery vlotage drop during engine cranking; battery charger operation after cranking test; starter motor for abnormal noise; diesel engine while running for noise, vibration, loose components; flexible hoses for leaks, corrosion and ageing; engine V-belts, engine/ alternator coupling for noise; alternator for accumulation of dust on the regularator and for any loose components, as well as testing on load for recording of volt, ampere and frequency readings, recording running hours, diesel comsumption, verification of all alarm functions, i.e. low oil pressure, high engine temperature, low engine coolant level, abnormal speed, synchronising failure, cooling water pump failure, cooling tower fan failure, low battery voltage, low fuel day tank, and all work necessary to rectify malfunction, at:</p>				
Carried forward						

## SCHEDULE NO 9.2: INSTALLATION DEM5: STANBY POWER SYSTEMS

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB 06.03.24  SA.03  SA.04  SA.05	3600,01	.01 One 68kVA diesel generator and one 15kVA UPS unit at Derdepoort port of Entry	point	360		
	3600,02	Provision of diesel over the whole three year period				
		.01 Diesel consumption per month: Calculate on projected Average.	l	9000		
	3600,03	Payment reduction:				
	3600,04	.01 Payment reduction due to exceeding of maximum allowable downtime during emergency breakdown	Day	-	-R 1 000,00	rate only
	3600,05	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary emergency breakdown	Day	-	-R 100,00	rate only
	3600,06	.03 Payment reduction due to exceeding of maximum down-time during malicious damage repair	Day	-	-R 100,00	rate only
	TOTAL: SCHEDULE NO 9.2: INSTALLATION EM5: STANBY POWER SYSTEMS - CARRIED TO SUMMARY					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 9.3: INSTALLATION DEM3: EXTERNAL LIGHTING

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
HE 12	3700,00	<u>MAINTENANCE OF EXTERNAL LIGHTING INSTALLATIONS AT DERDEPOORT PORT OF ENTRY</u>				
SA.01	3700,00	<b>Maintenance of a complete installation:</b>				
SA		Scheduled and unscheduled preventative maintenance and breakdown maintenance by a competent person, as per Technical specification HE: Exterior lighting systems, comprising atleast:				
		Verify operation of switching elements and all internal components of the luminaires and replace non-functional items, Check and inspect and where necessary replace deteriorated luminaires, internal components and lamps, ensure steel poles connection box cover plates are weather proof, seal in good condition, ensure that all pole covers are secure. ensure proper earthing of all steel lighting poles, scissor masts at all times, maintain earth connection at footing, record values annually. apply vermin proofing, inspect and service junction boxes, circuit breakers, wiring and connectings and ensure correct phase voltages and currents ensure that all lighting poles, scissor and high masts are straight				
		at <b>Derdepoort</b> external lighting installations comprising:	point	360		
	.01	4 Wooden security light poles junction boxes and luminaires				
	.02	16 Post top street light mounted on fibre glass poles internal junction box and luminaires				
Carried forward						



## SCHEDULE NO 9.3: INSTALLATION DEM3: EXTERNAL LIGHTING

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA.01</b>	<b>3700,01</b>	<b>Maintenance of a complete installation</b>				
<b>HE 12</b>		.01 External Lighting installation	point	360		
	<b>3700,01</b>	<b>Payment reduction:</b>				
<b>SA.03</b>		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	Day	-	-R 1 000,00	rate only
<b>SA.04</b>		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Day	-	-R 100,00	rate only
<b>SA.05</b>		.03 Payment reduction due to exceeding of maximum allowable down-time during malicious damage breakdown	Day	-	-R 100,00	rate only
<b>TOTAL: SCHEDULE NO 9.3: INSTALLATION DEM3: EXTERNAL LIGHTING - CARRIED TO SUMMARY</b>						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 10.1: INSTALLATION SEM1: EXTERNAL LIGHTING

SWARTKOPFONTEIN  
ELECTRICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	3200,00	<u>MAINTENANCE OF BUILDING AND SITE ELECTRICAL SERVICES AT SWARTKOPFONTEIN PORT OF ENTRY</u>				
	3200,01	<u>Maintenance of a complete installation:</u>  Scheduled and unscheduled preventative maintenance and breakdown maintenance as per Technical specification AB: Building Electrical installations (AB.11 Maintenance of the installation) HE: Exterior lighting systems (HE 09 Area lighting, HE 10 security fence lighting technical details, HE 11 street lighting technical details) comprising: (i) checking operation, servicing, testing repair or replacement of all lamps and luminaires, switching elements and meters, protective and monitoring devices, earthing and lightning protection, socket outlets, distribution boards, isolators light switches, lamp holders, (ii) measuring , logging and recording of phase voltages and currents (iii) upkeep of all diagrams, instructions, labelling of distribution boards, equipment, cables and wiring, and such similar information, and Nosa-type engraved labelling on face plates or bodies of light switches, socket outlets and isolators and (iv) witnessed testing of all earth leakage protection units on all outlet units, at:  .01 Operational and Residential Buildings, including but not limited to 34 buildings, with atleast 194 light switches,143 sockets, 194 light fittings,81 isolators,35 distribution boards,4 stoves, and low voltage cable, interior and exterior lighting of buildings, small power and fixed appliances, earthing and lightning protection system including 37 perimeter lights and 4 area floodlights at Swartkopfontein Gate port of Entry	point	360		
Carried forward						

## SCHEDULE NO 10.1: INSTALLATION SEM1: EXTERNAL LIGHTING

SWARTKOPFONTEIN  
ELECTRICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.03	3200,01	<b><u>Payment reduction</u></b>				
		.01 Payment reduction due to exceeding of maximum allowable down- time during emergency breakdown	Day	-	-R 1 000,00	rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Day	-	-R 100,00	rate only
SA.05		.03 Payment reduction due to exceeding of maximum down-time during malicious damage repair	Day	-	-R 100,00	rate only
	TOTAL: SCHEDULE NO 10.1: INSTALLATION SEM1: BUILDING SITE AND ELECTRICAL - CARRIED TO SUMMARY					

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 10.2: INSTALLATION SEM2: STANBY POWER SYSTEMS

SWARTKOPFONTEIN  
ELECTRICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	3700,00	<u>MAINTENANCE OF STANDBY POWER INSTALLATION AT SWARTKOPFONTEIN PORT OF ENTRY</u>				
	3700,01	<u>Maintenance of a complete installation:</u>  Scheduled and unscheduled preventative maintenance and breakdown maintenance as per Technical specification HB: Standby power systems, comprising at least: checking, recording and resetting as necessary of oil level; oil viscosity for dilution by water or fuel; starter battery terminals and apply contact grease; battery cables for damages and secure terminations; battery electrolyte; battery voltage; battery vlotage drop during engine cranking; battery charger operation after cranking test; starter motor for abnormal noise; diesel engine while running for noise, vibration, loose components; flexible hoses for leaks, corrosion and ageing; engine V-belts, engine/ alternator coupling for noise; alternator for accumulation of dust on the regularator and for any loose components, as well as testing on load for recording of volt, ampere and frequency readings, recording running hours, diesel comsumption, verification of all alarm functions, i.e. low oil pressure, high engine temperature, low engine coolant level, abnormal speed, synchronising failure, cooling water pump failure, cooling tower fan failure, low battery voltage, low fuel day tank, and all work necessary to rectify malfunction, at:  .01 One 60kVA diesel generator and one 15kVA UPS unit at Swartkopfontein port of Entry	point	360		
Carried forward						

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	3300,10	Provision of diesel over the three year period				
HB 06.03.23	.01	Diesel consumption per month: Calculate on projected Average.	I	9000		
	3700,02	<u>Payment reduction</u>				
SA.03	.01	Payment reduction due to exceeding of maximum allowable down- time during emergency breakdown	Day	-	-R 1 000,00	rate only
SA.04	.02	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Day	-	-R 100,00	rate only
SA.05	.03	Payment reduction due to exceeding of maximum down-time during operational damage repair	Day	-	-R 100,00	rate only
	TOTAL:	SCHEDULE NO 10.2: INSTALLATION SEM2: STANBY POWER SYSTEMS - CARRIED TO SUMMARY				

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
HE 12	3700,00	<b><u>MAINTENANCE OF EXTERNAL LIGHTING INSTALLATIONS AT SWARTKOPFONTEIN PORT OF ENTRY</u></b>				
SA.01	3700,00	<b>Maintenance of a complete installation:</b>				
SA		<p>Scheduled and unscheduled preventative maintenance and breakdown maintenance by a competent person, as per Technical specification HE: Exterior lighting systems, comprising atleast:</p> <p>Verify operation of switching elements and all internal components of the luminaires and replace non-functional items,</p> <p>Check and inspect and where necessary replace deteriorated luminaires, internal components and lamps,</p> <p>ensure steel poles connection box cover plates are weather proof, seal in good condition, ensure that all pole covers are secure.</p> <p>ensure proper earthing of all steel lighting poles, scissor masts at all times, maintain earth connection at footing, record values annually.</p> <p>apply vermin proofing,</p> <p>inspect and service junction boxes, circuit breakers, wiring and connectings and ensure correct phase voltages and currents</p> <p>ensure that all lighting poles, scissor and high masts are straight</p> <p>at Swartkopfontein external lighting installations comprising:</p> <p>.01      4      Wooden security light poles junction boxes and luminaires</p> <p>.02      16      Post top street light mounted on fibre glass poles internal junction box and luminaires</p>	point	360		
Carried forward						

## SCHEDULE NO 10.3: INSTALLATION DEM3: EXTERNAL LIGHTING

DERDEPOORT  
ELECTRICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01	3700,01	Maintenance of a complete installation				
HE 12		.01 External Lighting installation	point	360		
	3700,01	Payment reduction:				
SA.03		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	Day	-	-R 1 000,00	rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Day	-	-R 100,00	rate only
SA.05		.03 Payment reduction due to exceeding of maximum allowable down-time during malicious damage breakdown	Day	-	-R 100,00	rate only
TOTAL: SCHEDULE NO 10.3: INSTALLATION EM3: EXTERNAL LIGHTING - CARRIED TO SUMMARY						

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE  
AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SUMMARY OF SCHEDULE OF QUANTITIES: MECHANICAL MAINTENANCE WORK

## TENDER

Schedule No.	11.1	Installation MM1	HVAC Installations	R .....
Schedule No.	11.2	Installation MM2	Fire Protection Installations	R .....

---

TOTAL OF BILL OF QUANTITIES: MECHANICAL MAINTENANCE WORK  
CARRIED TO CALCULATION OF TENDER SUM

---

R .....

SIGNED ON BEHALF OF THE TENDERER:

.....



## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 11.1: INSTALLATION MM1: HVAC INSTALLATIONS

MECHANICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PFD 05.01.01	2000,00	<u>MAINDATORY PERODICAL BI-ANNUAL</u>				
	2001,00	Maintenance of a complete installation, provide fill service of air-conditioning units according to manufacturer;s specification:		360,00		
	2001,01	Kopfontein operational and residential areas: Kopfontein's air conditioning units at various buildings, inclusive but not limited to 47 mid wall split units and 9 window shakers				
		01 7.2kW mid wall split unit	No	4		
		02 5.2kW mid wall split unit	No	4		
		03 3.5kW mid wall split unit	No	35		
		04 3.6kW window shaker	No	9		
	2001,02	Swartkopfontein operational and residential areas: Swartkopfontein's air conditioning units at various buildings, inclusive but not limited to 30 mid wall split units and 12 window shakers		360,00		
		01 7.2kW mid wall split unit	No	3		
		02 5.2kW mid wall split unit	No	18		
		03 3.5kW mid wall split unit	No	9		
		04 3.6kW window shaker	No	12		
Carried forward						

## SCHEDULE NO 11.1: INSTALLATION MM1: HVAC INSTALLATIONS

MECHANICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	2001,03	Derdepoort operational and residential areas: Derdepoort's air conditioning units at various buildings, inclusive but not limited to 32 mid wall split units.		360,00		
		01 7.2kW mid wall split unit	No	2		
		02 5.2kW mid wall split unit	No	4		
		03 3.5kW mid wall split unit	No	26		
		The maintenance schedule is described in the technical specifications: FD, PFD.				
		<b>Bi-annual maintenance for three years. (2 x Total maintenance cost plus 3 x total maintenance)</b>			<b>Sub Total x 2 x 3</b>	
	2100,00	<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days	1	-R 2 000,00	rate only
		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	7	-R 500,00	rate only
		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days	7	-R 500,00	rate only
		04 Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	hours	1	-R 1 000,00	rate only
	<b>TOTAL:</b>	<b>SCHEDULE NO 11.1: INSTALLATION MM1: HVAC INSTALLATIONS - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/025AI

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDING, CVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS

## BILL OF QUANTITIES

## SCHEDULE NO 11.2: INSTALLATION MM1: HVAC INSTALLATIONS

MECHANICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
JC/PJC	3100,00	<b><u>MAINTENANCE OF CONVENTIONAL FIRE-FIGHTING EQUIPMENT</u></b>				
	3101,00	<b><u>Maintenance of a complete installation:</u></b>  Scheduled and unscheduled preventative maintenance and breakdown maintenance, as per Technical Specification jc: Conventional Fire Fighting Equipment, comprising (i) maintenance related to fire hydrants, including routine inspection of hydrant valve seal, valve stem and or top for damage, valve stem seal, and checking right angle wheel for tightness, checking operation of quick couplers, opening and closing movement of valve, water pressure and flow, stand pipe rigidity, (ii) maintenance related to fire hose reels, including routine inspections of drain seal, rolled down hose for cracks or perishing, checking operation of PWD type nozzle, fire hose reel valve, pressure and flow rate of fire hose reel, and piping for leaks or damage, and lubrication of moving parts of hose reel drum, (iii) maintenance related to fire extinguishers, including routine inspection of backboard mounting and bracket, checking condition of the charge and discharge, checking the discharge hose mechanism, and replace CO2 and DCP at prescribed intervals, repair and replacement of all parts, and logging and recording of the maintenance schedule for all fire fighting equipment, at:				
	3101,02	<b>Kopfontein operational and residential areas:</b> Kopfontein various buildings including but not limited to 61 Fire extinguishers on backboards and in cabinets, a booster pump system, 8 fire hydrants with and 4 fire hoses.		360,00		
		01 9kg Dry chemical powder (STP) fire extinguisher	No	57		
		02 4.5kg Dry chemical powder (STP) fire extinguisher	No	1		
Carried forward						

## SCHEDULE NO 11.2: INSTALLATION MM1: HVAC INSTALLATIONS

MECHANICAL  
MAINTENANCE  
WORK

PAYMENT REFERS TO	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		03 5kg CO2 fire extinguisher	No	3		
		04 Fire booster pump system	No	1		
		05 Fire Hydrants with fire hoses	No	4		
		06 Fire Hydrants	No	4		
	3101,02	<b>Swartkopfontein</b> operational and residential areas: Swartkopfontein various buildings including but not limited to 24 Fire extinguishers on backboards and in cabinets.				
	3101,03	01 9kg Dry chemical powder (STP) fire extinguisher	No	20		
		02 5kg CO2 fire extinguisher	No	4		
		<b>Derdepoort</b> operational and residential areas:				
		01 9kg Dry chemical powder (STP) fire extinguisher	No	15		
	3102,00	02 5kg CO2 fire extinguisher	No	5		
		<b>Payment reduction:</b>				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	days	1	-R 2 000,00	rate only
		02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	7	-R 500,00	rate only
		03 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	days	7	-R 500,00	rate only
		04 Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	hours	1	-R 1 000,00	rate only
	<b>TOTAL: SCHEDULE NO 11.2: INSTALLATION MM2: FIRE PROTECTION INSTALLATIONS - CARRIED TO SUMMARY</b>					

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **PART C3 SCOPE OF WORK**

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

### **C3.1 SCOPE OF WORK – GCC 2015 3<sup>rd</sup> Edition**

## PG-01.1 (EC) SCOPE OF WORKS – GCC 3<sup>rd</sup> Edition (2015)

Project title:	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)</b>		
Tender no:	H24/025AI	Reference no:	H24/025AI

### C3. Scope of Works

#### CONTENTS

#### C3.1 STANDARD SPECIFICATIONS

#### C3.2 PROJECT SPECIFICATIONS

##### A: GENERAL

- PS-1 PROJECT DESCRIPTION
- PS-2 DESCRIPTION OF SITE AND ACCESS
- PS-3 DETAILS OF CONTRACT
- PS-4 CONSTRUCTION AND MANAGEMENT REQUIREMENTS
- PS-5 CONSTRUCTION PROGRAMME
- PS-6 SITE FACILITIES AVAILABLE
- PS-7 SITE FACILITIES REQUIRED
- PS-8 REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC
- PS-9 OCCUPATIONAL HEALTH AND SAFETY
- PS-10 ADVERSE WEATHER CONDITIONS

**NOTE:** This is an example only. Compiler / Designer to provide the applicable contents.

##### B: AMENDMENTS TO THE PARTICULAR SPECIFICATIONS

Variations and additions to the following SANS 1200 Standardised Specifications:

- SANS 1200 A : General
- SANS 1200 AB : Engineer's office

#### C3.3

##### C: TECHNICAL SPECIFICATIONS

- AA Plumbing and drainage Installations
- AB Building electrical installations
- BA Roof Coverings
- BB Carpentry joinery for roofs and ceilings
- BC Waterproofing of concrete roofs
- BD Walls
- BE Floors
- BF Pest Control
- BG Metalwork
- BH Fittings
- BJ Paintwork
- BK Structural Concrete
- CA Roads
- CB Storm water drainage
- CC Fencing and gates
- CE Water distribution networks

CF	Sewer networks
CG	Solid waste management
CJ	Site keeping and cleaning
DA	Borehole pump system
DB	Borehole drilling and equipment
DC	Borehole siting and drilling
DF	Portable water disinfection and sedimentation units
DH	Operation of portable water works
DL	Chlorination systems for the disinfection of drinking water at remote borehole installations
DW	Water supply
EA	Waste water inlet works
EB	Waste water pump systems
EC	Sedimentation tanks
EE	Activated sludge works
EF	Sludge treatment and disposal
EG	Septic tank and conservancy tanks and disposal fields
EI	Disinfection of waste water
EJ	Water quality testing
EK	Valves and sluice gates for water treatment plants
EM	Operation of waste water works
EQ	Reed beds
FD	Heating ventilation and air-conditioning systems
FE	Incinerator Installation
FF	Kitchen equipment installations
FN	Clear water pump systems
HA	Medium and low voltage switch gear systems
HB	Standby power systems
HC	Low voltage reticulation
HD	Substation transformers
HE	Exterior lighting installations
JC	Conventional fire-fighting equipment
KA	Water audit

#### D: PARTICULAR SPECIFICATIONS

PAA	Plumbing and drainage installations
PFD	Heating Ventilation and Air-conditioning systems
PFE	Incinerator Installation
PJC	Conventional Fire Fighting Equipment

#### E: ADDITIONAL SPECIFICATIONS

SA	General Maintenance
SB	Operating and Maintenance Manuals
SC	General decommissioning, testing commissioning procedures
SD	General Training
SF	General Operation
SH	HIV / AIDS requirements
SI	Occupational Health and Safety
SJ	COVID-19 Compliance
SN	Implementation of Labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP)

#### C3.4 STANDARD SPECIFICATIONS:

The standard specifications on which this contract is based are the **South African Bureau of Standards Standardized Specifications for Civil Engineering Construction SABS 1200**. *(Note to compiler. "SABS" has been changed to "SANS"; the SABS 1200 specifications are due to be replaced in the foreseeable future by SANS 2100)*

Although not bound in nor issued with this Document, the following Sections of the Standardized Specifications of SABS 1200 shall form part of this Contract:



1. SABS 1200 - Standardised Specifications for Civil Engineering Construction\*
2. SABS - Standard Specifications\*
3. PW 371- Specification of Materials and Methods to be used. Fourth revision, October 1993.\*\*
4. Guide for architects concerning drainage, water supply and storm water drainage\*\*
5. PW 343- Building specifications for Regional Offices\*\*
6. Standard Specification for the Electrical Equipment and Installation for Mechanical Services, Issue VIII December 1984\*\*
7. Standard Electrical Specifications, January 1984, GPS 24-0367\*\*
8. SANS 10400 - The application of the National Building Regulations\*\*
9. Department of Public Works - Standard Electrical Specifications\*\*
10. Standard Specifications for Air Conditioning and Ventilation Installations – Issue XI, 1998\*\*
11. Standard Specifications for Refrigeration Services – Issue VII, 1998\*\*
12. FPO/G61/3E Guide for Architects\*\*
13. Department of Water Affairs – Green Drop \* Blue Drop Requirements (Version 1.0-2010) \*\*
14. Guideline for the Implementation of Labour – Intensive Infrastructure Projects under Expanded Public Works Programme\*\*

\* Not issued with this document, but available at the Contractor's expense from SA Bureau of Standards, Private Bag X191, Pretoria, 0001.

\*\* Not issued with this document, but available from the Director General, Department of Public Works, Private Bag X65, Pretoria, 0001, or any office of the Regional Representative of this Department

\*\*\* Not issued with this document, but available from the Department of Water Affairs ([www.dwa.gov.za](http://www.dwa.gov.za))

### 3.5 PROJECT SPECIFICATIONS:

#### Status

The Project Specification, consisting of two parts, forms an integral part of the contract and supplements the Standard Specifications.

Part1 A contains a general description of the works, the site and the requirements to be met.

Part B contains variations, amendments and additions to the Standardized Specifications and, if applicable, the Particular Specifications.

In the event of any discrepancy between a part or parts of the Standardised of Particular Specifications and the Project Specification, the Project Specification shall take precedence. In the event of a discrepancy between the specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Engineer before the execution of the work under the relevant item.

#### 3.5.1 GENERAL

##### PS-1 PROJECT DESCRIPTION:

**KOPFONTEIN, SWARTKOPFONTEIN AND DERDERPOORT LAND PORTS OF ENTRY:  
APPOINTMENT OF A SERVICE PROVIDER/S FOR THE MAINTENANCE AND REPAIRS OF  
BUILDING, CIVIL, MECHANICAL, ELECTRICAL INFRASTRUCTURE AND INSTALLATIONS FOR  
A PERIOD OF 36 MONTHS (APPOINTMENT OF A CONTRACTOR)**

Each installation requires work that may include any one or more of the activities as set out below: i.e. decommissioning, repair, reconditioning, testing, re-commissioning and maintenance during the 36-month Contract. The work also include compilation of operating and maintenance manuals as well as training of User Client operators and all maintenance personnel.

NOTE: Repair and maintenance work will be carried out within facilities that are occupied by User Client's personnel and associates.

## **PS 2 DESCRIPTION OF SITE AND ACCESS**

KOPFONTEIN, SWARTKOPFONTEIN AND DERDERPOORT Ports of Entry is the property of the Department of Public Works. The location of the sites are described below:

KOPFONTEIN Port of Entry is situated on the border between South Africa and Botswana. The Port of Entry is approximately 100 km from Zeerust.

SWARTKOPFONTEIN Port of Entry is situated on the border between South Africa and Botswana. The Port of Entry is approximately 267 km from Zeerust.

DERDEPOORT Port of Entry is situated on the border between South Africa and Botswana. The Port of Entry is approximately 135 km from Zeerust.

The contractor will be granted access to all the installations that need to be repaired and maintained at the date of site handover.

## **PS 3 DETAILS OF THE CONTRACT**

All work forming part of this Contract is divided into installations. The work to be performed as part of an installation under this Contract mainly consists of the following:

1. The various installations at the Port of Entry form part of the new Repair and Maintenance Programme.
2. No distinction will be made between prior to practical completion and completed installations for the purpose of maintenance.
3. The Contractor will have the opportunity at the start of the contract to point out items which are not in perfect working order which in turn will be repaired as per the relevant tendered repair rates.
4. The contractor will further more at the start of the contract perform annual maintenance on all the installations as specified in the BOQ, as part of the Contractor' maintenance obligation.
5. Maintenance will be the responsibility of the contractor and will be evaluated on a monthly basis by the Engineer. The remuneration for maintenance work and responsibilities will be certified accordingly

The Contractor will have the opportunity at the start of the contract to point out items which are not in a perfect working order by means of an assessment and verification report. Typically the following installations shall be assessed:

- Structural and Building related works
- Plumbing, drainage and wet services
- Fencing, cleaning and site keeping
- Bulk water and external water reticulation and water purification works
- Roads and storm water drainage
- Building electrical
- External lighting
- Standby power generators
- Medium and low voltage equipment
- Heating, ventilation and air-conditioning systems
- Conventional firefighting equipment

These items will be serviced and repaired as per the relevant tendered rates. The detail Assessment and Verification report shall provide an overview of problem areas at the beginning of the contract

period. This shall include testing of all equipment as well as all civil, electrical and mechanical services. The detail Assessment and Verification report shall include photos with a description of problem areas.

The Assessment and Verification report must be submitted one calendar month after site handover. A penalty of R 500 per day shall be imposed for late submission.

Payment for the Assessment and Verification report shall be included in the fixed preliminary and general charges.

### **PS 3.1 GENERAL ITEMS**

- compile and supply a complete site plan of Kopfontein, Swartkopfontein and Derdepoort land ports of Entry Operational and Residential Areas
- Compliance with the Occupational Health and Safety Act and Construction Regulations 2003 and monthly audits.
- HIV / Aids Awareness campaigns and training including awareness workshops and awareness campaigns. Also included is the provision of condoms, posters, booklets, videos, etc. and monthly reporting.
- Site recordkeeping based on the maintenance control plan.
- Consumption monitoring (Electrical and Water)
- BCOC Contingency infrastructure (provision of Easter and Christmas season facilities) and any peak season as identified by the client.
- Utilisation of a National Call Centre enabling the user departments to report breakdowns.
- Expanded Public Works Programme (EPWP): Implementation of labour intensive practices under the Expanded Public Works Programme (EPWP) to a value of not less than 10% of the tendered contract amount for wages paid to local labour.

#### **PS 3.1.2 Repair and Servicing items in the contract includes:**

- Building Structural Elements (Repair actions required to damages and deteriorated elements such as minor touch-up, painting to corroded elements and repair and realignment of locksets, doors, windows, gutters, roofs, etc.). Replacement of damaged floor coverings.
- Water-proofing of concrete roofs.
- Plumbing and Drainage (servicing of sanitary fittings, valves and taps, replacement of damaged/missing components)
- Electrical Installations (servicing of Distribution Boards, Luminaires, Light switches, socket outlets and geyser components as well as Bulk lamp replacement and statutory tests required). Issuing C.O.C's for all buildings.
- Fencing (clearing of fence route, retightening of fence elements, replacement of damaged fences and redressing existing fences)
- Refuse removal (removal of collected refuse from site to registered dumping site)
- Pest Control (Internal and External Termite and Rodent control and preventative measures)
- Water Distribution Networks (servicing and recalibration of water meters and valves, scouring of water pipelines, cleaning of manholes, cleaning of chambers as well as the sterilisation of water reservoirs and repair/service of water treatment package plant)
- Pumping equipment (servicing/reconditioning of water pumps) and reporting.
- Conformation to water standards (testing of water quality)
- Water Audit including compilation of database, meter management system and data loggers for essential services
- Statutory Registration of Water use & Blue Drop / Green Drop Requirements
- Roads (grading of gravel roads, replacement of washed-out jointing sand, repair of interlocking paving sections, repair to road markings and chemical control of vegetation, concrete repair). Installation of embankment-stabilisation Léffe/stein retaining blocks.
- Storm water (repair of structures and cleaning of drainage channels, inlet- and outlet structures)
- External Electrical (servicing of external lighting luminaires, bulk lamp replacement, servicing of light poles, distribution kiosks and overhead distribution system). Replace damaged luminaires with new LED-type luminaires.

- Standby Power Generators (mandatory generator services as per the manufacturers specifications, testing, cleaning, and supply of diesel)
- Replacement of 4 Generators, which has reached the end of serviceable lifetime.
- Air-Conditioning Units (full servicing of units, testing and cleaning of Air-Conditioning units). Replacement of out-dated units, which has reached the end of serviceable lifetime.
- Fire Fighting (statutory servicing, cleaning and recharging equipment as well as fire fighting training and a fire plan for each of the service buildings).

**PS 3.1.3 Preventative Maintenance items in the contract includes:**

The maintenance actions (Additional Specifications) of the following items as per specification SA: Maintenance and Servicing, to be measured monthly as per the performance indicators on the Maintenance Scorecards:

- Plumbing and Drainage
- Electrical Installations
- Fencing, Refuse Removal and Pest Control
- Cleaning and Site Keeping
- External Water and Sewer Networks
- Roads and Stormwater Drainage
- External lighting and Standby Power
- Heating, Ventilation and Air-Conditioning Systems
- Fire Fighting Equipment

**PS 3.4 Periodic / Routine Maintenance tasks and Servicing in the contract includes:**

- Log all water meter readings and calculate losses on a monthly basis and report in the prescribed format.
- Sample potable water supply and chemical analyses to be provided by an accredited laboratory on a monthly basis.
- Log all electricity meter readings on a monthly basis and report in the prescribed format,
- Monitoring of essential services
- Remove and empty waste from skip to external waste disposal site on a regular basis.
- De-sludge and cleaning of septic tanks on a regular basis as required.
- Service submersible pumps annually.
- Statutory annual servicing of fire extinguishers
- Pest and vermin control (internal and external)
- Providing diesel for standby generators for the duration of the contract to ensure that standby power is available at all times and mandatory periodical servicing of Standby Generators. Servicing generators every 200 running hours.
- Site keeping and cleaning of the Ports of Entry.
- Supply of potable drinking water in case of water shortages
- Cleaning of Administration Buildings and Public Ablutions on a daily basis.
- Supply of consumables for ablutions
- Annual servicing of all air-conditioning units.

Maintenance of each of the above installations will be the responsibility of the Contractor and will be evaluated on a monthly basis by the Engineer. The remuneration for maintenance work and responsibilities will be certified accordingly.

### **PS 3.2 DEPARTMENT OF WATER AFFAIRS INCENTIVE BASED REGULATION MANAGEMENT AND ADMINISTRATION**

- Potable water quality tests to be performed by approved SANAS laboratory on a monthly basis on the water delivered to the consumers for determinants specified.
- Potable water quality tests to be performed by an approved SANAS laboratory on a monthly basis on the water abstracted from boreholes for determinants specified.
- Sewage effluent compliance quality tests to be performed by an approved SANAS laboratory for determinants specified.
- Raw sewage 24 h composite sample and analysis for determinants specified.
- Special testing required by the engineer shall include remuneration for all water and wastewater related analysis, in terms of either compliance monitoring, or required to determine risks. All operational sampling and monitoring shall be the Contractor's responsibility remunerated under Operation of an Installation.
- Full SANS 241 (Part 1) set of 34 x chemical, 8 x physical determinants and 6 x micro biological determinants for annual water quality risk assessment.
- Compile and submit to the Engineer for approval a Water Safety Plan in terms of the requirements of SANS 241 (Part 2), inclusive of risk based operational – and compliance monitoring programmes. Water demand management, including loss reduction and water use efficiency business plan Compile and submit to the Engineer for approval a Wastewater Risk Abatement Plan, inclusive of risk based operational – and compliance monitoring programmes, storm/ground water ingress monitoring and control planning.
- Operation as per Technical Specification DH09 comprising Maintain spreadsheet/database with drinking water system process control and maintenance information, including but not limited to: system input volumes, individual water consumption, system pressures, compliance results, operational process control results, chemical consumption, hour meter readings, volt meter readings, ammeter readings, breakdowns, etc., for KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND Ports of Entry, and submission to the Client in a format similar to the Department of Water Affairs incentive based regulation programmes.
- Operation as per Technical Specification EM04.08 comprising Maintain spreadsheet/database with wastewater treatment process control and maintenance information, including but not limited to: raw wastewater flow rates, effluent flow rates, irrigation rates, compliance results, operational process control results, chemical consumption, hour meter readings, volt meter readings, ammeter readings, breakdowns, etc., at KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND Ports of Entry, and submission to the client in a format similar to the Department of Water Affairs incentive based regulation programmes

### **PS 4 CONSTRUCTION PROGRAMME**

When drawing up his construction programme, the Contractor shall take into account the time for completion for the repair work of each installation as indicated in Clause 42.1 as amended in Part 1 of the Contract Data.

- Repair Work – 12 months
- Maintenance Work – 36 months

If the programme submitted by the Contractor in terms of Clause 12 of the General Conditions of Contract, has to be revised because the Contractor is falling behind in his programme, he shall submit a revised programme of how he intends to regain lost time to ensure practical completion of repair work of each installation, and completion of the Works within the periods stipulated Part 1 of the Contract Data or within a granted extension of time and also to ensure that other contractors have access to the site to start their work on the dates as shown in the original programme. Proposals to increase the tempo of work must incorporate positive steps to increase production either by more labour and plant on the Site, or by using the available labour and plant in a more efficient manner.

Instructions by the Engineer to expedite progress shall not be the subject of additional compensation to the Contractor unless the instruction explicitly states that the Contractor is entitled to additional compensation and cites the amount of such compensation or the basis on which it is to be determined.



Failure on the part of the Contractor to submit or to work according to the programme or revised programmes shall be sufficient reason for the Engineer to take steps as set out in Clause 55 of the General Conditions of Contract as amended in Part 1 of the Contract Data.

The approval by the Engineer of a programme shall have no contractual significance other than that the Engineer will be satisfied if the work is carried out according to the programme. The said approval shall not limit the right of the Engineer to instruct the Contractor to vary the programme if necessary. The Contractor is also referred to Clause PS 8 and Clause PS 12 when preparing this programme.

**NOTE:**

**NOTE:** For reasons of limited access, it may not be possible to carry out the repair work on some of the installations in parallel with repair work on other installations. The repair work of some of the installations shall follow sequentially as indicated in the specifications.

The Contractor shall organise his work in such a manner as to cause the minimum inconvenience to the User Client's personnel and operations.

## **PS 5 SITE FACILITIES AVAILABLE**

### **PS 5.1 CAMP SITE AND STORE ROOM**

**(a) Campsite**

A site establishment area is available and will be indicated to the Contractor. An area for the campsite was developed by the previous contractor and the infrastructure and facilities can be utilised for the new contract but must be repaired and maintained during the contract to ensure that the facility maintains an esthetical value for the ports of Entry.

**(b) Store Room**

None of the existing service buildings may be used for storage. The contractor must provide his own store room facilities for the duration of the contract.

The existing and new facilities must comply with the South African National Building Regulations and Standards in all aspects.

### **PS 5.2 WATER, ELECTRICITY AND SEWERAGE**

**(a) Water supply**

The Contractor must make his own arrangements for water supply. Water will be available at specific points not necessarily adjacent to working areas. Water will be available free of charge but wastage will not be tolerated. The Contractor must supply his own standard fittings to couple up at the points where water is available.

**(b) Electrical power supply**

Electrical power supply is available on the Site and will be free of charge. The Contractor must make his own arrangements for a connection to the electrical power supply. The Contractor will be responsible, at his own cost, for the distribution of electricity for construction and domestic use.

**(c) Sewerage connection**

Refer to Subclause PSA 4.2 in connection with toilet requirements. Chemical toilets shall be used.

**Note:** The Employer shall not be held responsible for any losses or inconvenience due to a disruption in the supply of water and/or electricity.

### **PS 5.3 PARKING FACILITIES**

Parking facilities are available on site.

## **PS 6 SITE FACILITIES REQUIRED FOR THE ENGINEER**

### **PS 6.1 GENERAL**

The Contractor shall provide on the Site, for the duration of the repair phase and for the exclusive use of the Engineer and/or his Representative (as applicable), the various facilities described hereunder. The duration of the repair phase is stated in Part 1 of the Contract Data. All such facilities shall be provided promptly on the commencement of the Contract and failure on the part of the Contractor to provide any facility required in terms of this specification shall constitute grounds for the Engineer to withhold payment of the Contractor's Preliminary and General items until the facility has been provided or restored, as the case may be.

### **PS 6.2 OFFICE ACCOMMODATION**

The Contractor shall provide on Site, 1(one) office for the exclusive use of the Engineer. Such office shall comply with and be furnished in accordance with the requirements of Subclause 3.2 of SABS 1200 AB. The Contractor shall maintain the offices in accordance with the requirements of Subclause 5.2 of SABS 1200 AB.

Irrespective the type of material of which an office is constructed, the Contractor shall ensure that the temperature inside the office is always between 20°C and 24°C.

Such office accommodation shall be provided within the Contractor's site establishment facilities.

### **PS 6.3 CARPORTS**

The Contractor shall provide on Site 1 carport for the exclusive use of the Engineer, in accordance with requirements of Subclause PSAB 3.3 of the Project Specifications.

### **PS 6.4 SITE MEETING VENUE**

The Contractor shall provide within its own site establishment facilities, a suitably furnished office or other venue capable of comfortably accommodating a minimum of six (6) persons at site meetings. The Engineer shall be allowed free use of such venue for conducting any other meetings concerning the Contract at all reasonable times.

### **PS 6.5 TELEPHONE AND COMPUTER FACILITIES**

The Contractor shall, in accordance with the requirements of Subclause PSAB 4 of the Project Specifications provide one (1) Cellular phone and one (1) 20GB/month (data— only) LTE13G Wi-Fi-Router and one (1) computer for the duration of the contract for the use of the Engineer and his representative. The average call cost at business rates (over the 36 month contract period) shall not exceed R 1,100-00 per month for the cellphone. 'Roaming' shall be activated on the cellular telephone as local cellular network reception is not available at all sites.

### **PS 6.7 CALL CENTRE**

A call centre has been established by the Employer to log, route and monitor incoming breakdown calls.

The call centre is administered centrally and is responsible for the routing of breakdown calls on The Contractor shall be responsible for the fixed and variable call costs incurred by the call centre for a relevant contract. The Contractor shall be re-reimbursed from an amount included in the Bill of Quantities, on written instruction of the Engineer. Operating costs of the call centre will be calculated, based on the number of breakdowns logged per contract, and invoiced on a monthly basis.

The Contractor is entitled to a percentage of the value of each payment in relation to the call centre to cover his expenses in this regard (see payment item PSA 8.9).

## **PS 7 FEATURES REQUIRING SPECIAL ATTENTION**

### **PS 7.1 INSTALLATIONS AT FACILITIES**

The installations at all facilities shall be carefully checked for damage and all damages shall be listed and discussed with the Engineer before commencement of repair and maintenance work. The Contractor shall present copies of all correspondence in this regard for discussion at the following site meeting.

### **PS 7.2 SECURITY**

#### **(a) Restrictions on movement and limited access**

The Contractor's personnel, vehicles and equipment will be restricted to areas of construction only. The Contractor shall comply with any requirements that the Engineer may have in this regard and shall take note that for security reasons the access to some areas, may be limited.

#### **(b) Prohibition on taking of photographs**

The Contractor's attention is drawn to the Defence Act, 1957 (Act No 44 of 1957) and the Correctional Services Act, 1998 (Act No 111 of 1998) which clearly state that the taking of photographs is prohibited and that even the possession of a camera on Site is an offence. Permission to take photographs of damaged equipment may be arranged by the Engineer.

#### **(c) Security check on personnel**

The Employer may require the Contractor to have his personnel or a certain number of them security-classified, if so required by any competent authority.

In the event of the Employer or any competent authority requiring the removal of a person or persons from the site for security reasons, the Contractor shall do so forthwith and the Contractor shall thereafter ensure that such person or persons are denied access to the site and/or to any documents or information relating to the work. In such circumstances the Contractor shall indemnify the Employer and the Engineer and shall hold the Employer and the Engineer harmless against any and all claims of whatever nature arising.

#### **(d) Access cards to security areas**

Should the work fall within a security area, the Contractor must obtain from the Engineer access cards for his security-cleared personnel and employees who work within such an area. The Contractor must comply with any regulations or instructions issued from time to time, concerning the safety of persons and property, by the Department of Correctional Services or SA Police services.

### **PS 7.3 SITE TO BE KEPT CLEAN**

During progress of the work and upon completion thereof, the Site of the Works shall be kept and left in a clean and orderly condition. The Contractor shall store materials and equipment for which he is responsible in an orderly manner, and shall keep the Site free from debris and obstructions.

All redundant materials, rubbish and waste arising from the work must be removed from the Site at the Contractor's cost and the site and buildings left clean and tidy.

### **PS 7.4 FACILITIES TO OTHER CONTRACTORS**

In addition to the requirements of Clause 18 of the General Conditions of Contract the Contractor must make allowances for other Contractors on the Site. This may involve adapting his programme to accommodate the work of other contractors and ensuring access to their sites along prescribed routes over the Site of this Contract.



## **PS 7.5 SUBCONTRACTORS**

In addition to the requirements of Clause 6 of the General Conditions of Contract as amended in Part 1 of the Contract Data, the Contractor shall be responsible for work carried out by subcontractors on his behalf. The Engineer will not liaise directly with such subcontractors. Problems related to payments, programming, workmanship, etc., shall be the responsibility of the Contractor and the subcontractor, and the Engineer will not become involved.

## **PS 7.6 SABS SPECIFICATIONS AND CODES OF PRACTICE**

All reference in this document to South African Bureau of Standards specifications and codes of practice, or any other standard specifications or codes of practice, including National Building Regulations, shall be deemed to be references to the latest issues of such specifications and codes.

## **PS 7.7 MATERIALS**

The monthly payment for materials brought onto the Site will only be applicable for repair work and not for maintenance work.

Unless otherwise instructed in writing by the Engineer, all proprietary materials are to be used, mixed, applied, fixed, etc. strictly in accordance with the manufacturer's recommendations.

## **PS 7.8 BORROW PITS**

There will be no designated borrow pits. The Contractor shall utilise the material on Site or import material from commercial sources.

## **PS 7.9 PROTECTION OF FURNITURE AND EQUIPMENT**

Most of the work to be done inside buildings and occupied houses will be carried out in places where there is furniture and other equipment.

The Contractor shall be responsible for moving the furniture and equipment in order to provide working space for his personnel. The programme shall be drawn up in such a way as to keep the movement of furniture and equipment to the very minimum and the Contractor shall be solely responsible for any damage to furniture or equipment.

## **PS 7.10 TESTING AND QUALITY CONTROL**

The Contractor shall engage the services of an approved independent laboratory or other institution as applicable for quality testing, to ensure that his work complies with the Specifications.

No separate payment will be made for such testing, the cost of which will be deemed to be included in the Contractor's rates bid for the items of work that require testing in accordance with the Specifications.

The onus to produce work that conforms in quality and accuracy of detail to the requirements of the Specifications and Drawings rests with the Contractor, and the Contractor shall, at his own expense, institute a quality-control system and provide experienced engineers, foremen, surveyors, materials technicians, other technicians and technical staff, together with all transport, instruments and equipment to ensure adequate supervision and positive control of the Works at all times.

The cost of supervision and process control, including testing carried out by the Contractor, will be deemed to be included in the rates bid for the related items of work.

The Contractor's attention is drawn to the provisions of the various Specifications regarding the minimum frequency of testing required. The Contractor shall, at his own discretion, increase this frequency where necessary to ensure adequate control.

On completion and submission of every part of the work to the Engineer for examination, the Contractor shall furnish the Engineer with the results of the relevant tests to indicate compliance with the Specifications.

## **PS 9 CERTIFICATES OF PAYMENT**

The statement to be submitted by the Contractor in terms of Clause 49 of the General Conditions of Contract shall be prepared in accordance with the standard payment certificate prescribed by the Engineer and shall comprise at least two sets of A4-size paper copies.

All costs for the preparation and submission of the statements shall be borne by the Contractor.

## **PS 10 CONSTRUCTION IN RESTRICTED AREAS**

Working space in certain areas may be restricted. The construction method used in these restricted areas largely depends on the Contractor's Plant. However, the Contractor must note that measurement and payment will be according to the specified cross-sections and dimensions irrespective of the method used, and that the rates and prices submitted will be deemed to include full compensation for difficulties encountered while working in restricted areas. No extra payment nor any claim for payment due to these difficulties will be considered.

## **PS 10 DRAWINGS**

The Contractor will, in terms of Clause 13 of the General Condition of Contract, be provided free of charge with three paper prints of each drawing issued to him.

All information in the possession of the Contractor that is required by the Engineer's representative to complete the as-built drawings must be submitted to the Engineer's representative before a Certificate of Completion will be issued.

Only figured dimensions shall be used and drawings shall not be scaled unless required by the Engineer. The Engineer will provide the dimensions that may have been omitted from the Drawings.

## **PS 11 LEGISLATION**

### **(a) Changes in legislation**

Reference in the General Conditions of Contract and in any other standard document forming part of this Contract to legislation which has been amended or superseded by other legislation since the most recent publication of such standard document, shall be deemed to be a reference to the amended or replacement legislation.

Such amended or replaced legislation shall be applicable during the Contract Period provided the amendment or replacement occurred more than 28 days before the closing date for bids in terms of Clause 46.4 of the General Conditions of Contract as amended in Part 1 of the Contract Data.

### **(b) The Occupational Health and Safety Act**

The Contractor shall be required to comply with the Occupational Health and Safety Act, 1993: Construction Regulations, 2003 as promulgated in Government Gazette No 25207 and Regulation Gazette No 7721 of 18 July 2003. Non-compliance with these regulations, in any way whatsoever, will be adequate reason for suspending the Works.

The proposed type of work, materials to be used and hazards likely to be encountered on this Contract are detailed in the Scope of Work, Pricing Data and Drawings. The Employers' health and safety specifications (subclause 4(1)) of the regulations will be issued separately.

The Contractor shall in terms of subclause 5(1) provide a comprehensive health and safety plan detailing his proposed compliance with the regulations, for approval by the Employer. The Contractor shall at all times be responsible for full compliance with the approved plan as well as the Construction Regulations and no extension of time will be considered for delays due to non-compliance with the abovementioned plan or regulations.

A payment item is included in the Bill of Quantities to cover the Contractor's cost for compliance with the OHS Act and the abovementioned Construction Regulations 2003.

## **PS 12 INSURANCE AMOUNTS**

The amounts for which the Contractor must insure the Works in terms of Clause 35 of Part 1 of the Contract Data are stated in the Agreement.

## **PS 13 TIMES FOR COMPLETION**

Times for completion of repair work to installations as well as the maintenance down-time for different types of breakdowns are given under Clause 42.1 of Part 1 of the Contract Data. The time for completion will start on the date of access to an installation.

## **PS 14 PRACTICAL COMPLETION**

(a) The Contractor shall be entitled in terms of Clause 51.1 of the General Conditions of Contract to receive a Certificate of Practical Completion when the Works to be executed under the Contract have been completed to the stage where:

- (i) all materials which are required to be replaced have been replaced and installed to the satisfaction of the Engineer; and
- (ii) all repair works have been completed.

(b) The Engineer shall issue to the Contractor and the Employer a Certificate of Completion in terms of Clause 51.4 of the General Conditions of Contract except where a thirty day commissioning period, as stated in paragraph (c) below, is applicable.

(c) Where indicated at the end of this paragraph, the issuing of a Certificate of Practical Completion for a certain installation will be followed by a thirty day commissioning period. The tasks of the Contractor during the thirty day commissioning period are described in Additional specification SC: General Decommissioning, Testing and Commissioning Procedures. After the completion of the thirty day commissioning period to the satisfaction of the Engineer, a certificate of completion will be issued to the Contractor as described in Clause 51.4 of the General Conditions of Contract.

## **PS 15 PENALTIES**

Penalties in terms of Clause 43.1 of the General Conditions of Contract for late completion of repair work to different installations are given under Clause 43.1 of Part 1 of the Contract Data. Payment reductions for exceeding the maintenance down-time for different types of breakdowns are given under the applicable pay items in the Bill of Quantities for Additional specifications SA: General Maintenance. Penalties will run concurrently where applicable.

(a) Penalty for failing to meet undertakings and/or conditions pertaining to Targeted Procurement for the award of points

If the bid adjudication points awarded to the Contractor are found to be based on incorrect or false information or the conditions pertaining to the award of points are not met and the Contractor fails to substantiate that such failure is due to a reason acceptable to the Employer (as being) beyond the Contractor's control, the Contractor shall be liable for and pay to the Employer, and amount determined in accordance with clause 2 and subject to clause 1 both of the Works Information, Part 2 of the Conditions of Bid.

(b) Payment reduction for non-performance

If the Contractor shall fail to rectify a fatal breakdown, an emergency maintenance breakdown, an ordinary maintenance breakdown and damage breakdown within the

time as stipulated in Additional Specifications SA: General Maintenance, the Contractor shall be liable to the Employer for the sum/sums stated in the Bill of Quantities for Additional Specification SA as a payment reduction for every hour/day down-time counting from the hour/day the breakdown was reported to the Contractor until the day it was repaired. These payment reductions will be cumulative and will run concurrently.

Where indicated above that the money will be recovered from the Contractor by means of payment reductions, the fixed negative amounts in the rate column of the Bill of Quantities will be used to reduce payments due to the Contractor.

The imposition of such payment reductions shall not relieve the Contractor from his obligation to complete the Works or from any of his obligations and liabilities under the Contract.

(c) Application of penalties to be accumulative

The imposition of all penalties in terms of this clause shall be accumulative and shall not relieve the Contractor from his obligation to complete the Works or from any of his obligations and liabilities under the Contract.

## **PS 19 NON-WORKING DAYS AND HOURS**

Whenever any special non-working days stated in Clause 1.6 and Clause 38 of Part 1 of the Contract Data fall within the days allowed or stipulated in the Contract in terms of Clause 1.6 of Part 1 of the Contract Data, such special non-working days shall also be excluded from the calculation of the number of working days concerned.

The Contractor shall not work on any statutory public holidays or on any public holidays declared by the Government to be statutory non-working days, except for work related to repair fatal and emergency breakdowns which influences the functionality of any of the installations.

Working hours might be limited and the Contractor shall work in close cooperation with the User Client and Engineer in this regard. Working hours for the different installations are indicated at the end of this clause where applicable.

The Engineer shall be entitled at any time during the Contract, to vary the normal working hours specified in the Bid documents, including increasing or decreasing the total number of hours per day during which the Contractor may execute the Works or specific portions thereof.

If any variation by the Engineer of the normal working hours specified in the Bid Documents should result in an increase or a decrease in the total number of hours per week during which the Contractor is permitted to execute the Works or any particular portions of Works, then the time allowed in the Contract for the completion of the respective part of the Works to which the varied normal working hours apply shall be adjusted proportionately in relation to:

- a) the remaining time allowed for completion of the specific part or parts of the Works; and
- b) the extent of the variation in the total normal working hours per week.

## **B AMENDMENTS TO THE STANDARD SPECIFICATIONS:**

The following variations and additions to the SANS 1200 Standardised Specifications referred to in the last clause of Portion 1 apply to this Contract. The prefix PS indicates an amendment to SANS 1200. The letters and numbers following these prefixes respectively indicate the relevant Standardised Specification and clause number in SANS 1200.

### **PSA GENERAL**

#### **PSA 1 SCOPE**

REPLACE SUBCLAUSE 1.1 WITH THE FOLLOWING:

"1.1 This specification covers requirements, principles and responsibilities of a general nature that are normally applicable to all Civil Engineering Contracts, as well as the requirements for the Contractor's establishment on the Site."

## **PSA 2 INTERPRETATIONS**

### **PSA 2.3 DEFINITIONS**

#### **(a) General**

ADD THE FOLLOWING DEFINITIONS:

"General conditions: The General Conditions of Contract specified for use with this Contract, and the Contract Data.

Specified: As specified in the standardised and standard specifications, the Drawings or the Scope of Work.

Permanent Works: as defined in Clause 1.1.17 of the General Conditions of Contract shall for the purpose of this Contract, be regarded as the repair work and maintenance work as defined in Subclause SA 02.06 of Additional Specification SA: General Maintenance."

#### **(c) Measurement and payment**

REPLACE THE DEFINITIONS FOR "fixed charge", "time-related charge" AND "value related charge" WITH THE FOLLOWING:

"Fixed charge: A charge that is not subject to adjustment on account of variation in the value of the Contract price or the Contract Time of Completion.

Time-related charge: A charge, the amount of which varies in accordance with the Time for Completion of the repair work, adjusted in accordance with the provisions of the Contract.

Value-related charge: A charge, the amount of which varies pro rata with the final value of the measured repair work executed and valued in accordance with the provisions of the Contract."

### **PSA 2.4 ABBREVIATIONS**

#### **(a) Abbreviations relating to standard documents ADD THE FOLLOWING ABBREVIATION:**

"CKS: SABS Co-ordinating Specification."

## **PSA 3 MATERIALS**

### **PSA 3.1 QUALITY**

ADD THE FOLLOWING:

"All manufactured materials supplied shall be new materials unless the contrary is specified. All materials specified in accordance with SABS Specifications shall bear the SABS mark, whether so specified or not."

ADD THE FOLLOWING SUBCLAUSE:

### **PSA 3.3 ORDERING OF MATERIALS**

The quantities set out in the Bill of Quantities have been carefully determined from calculations based on data available at the time and should therefore be considered to be approximate quantities only. Before ordering materials of any kind the Contractor shall check with the Engineer whether or not the scope of the work for which the materials are required is likely to change substantially. No liability or responsibility whatsoever shall be attached to the Employer for materials ordered by the Contractor except when ordered in accordance with written confirmation issued by the Engineer."

## **PSA 4 PLANT**

### **PSA 4.2 CONTRACTOR'S OFFICES, STORES AND SERVICES**

ADD THE FOLLOWING PARAGRAPH BEFORE THE FIRST PARAGRAPH:

"The Contractor's construction camp shall be fenced off and shall contain all offices, stores, workshops, testing laboratories, toilet facilities, etc. The camp shall always be kept in a neat and orderly condition. No personnel may reside on the Site. No night-watchman may be on the Site after hours."

ADD THE FOLLOWING TO THE SECOND PARAGRAPH:

"One chemical toilet per 10 workmen shall be provided and must be screened from public view and its use shall be enforced.

The Contractor shall, where applicable, make the necessary arrangements for the removal of night soil."

## **PSA 5 CONSTRUCTION**

### **PSA 5.4 PROTECTION OF OVERHEAD AND UNDERGROUND SERVICES**

REPLACE THE HEADING AND THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

#### **PSA 5.4 LOCATION AND PROTECTION OF EXISTING SERVICES**

##### **PSA 5.4.1 Location of existing services**

Before underground or excavation work is carried out, the Contractor shall ascertain the presence and position of all services likely to be damaged or interfered with by his activities. He shall obtain up-to-date plans from the Engineer for this purpose, showing the position of services in the area where he intends to work. As services can often not be reliably located from such plans, the Contractor shall determine the exact position of such services by means of suitable detecting equipment and afterwards by careful hand excavation where necessary in order to expose the services at the positions of possible interference by his activities. This procedure shall also be followed in respect of services not shown on the plans but believed to be present.

All such services, the positions of which have been located at the critical points, shall be designated as 'known' services and their positions shall be indicated on a separate set of Drawings, a copy of which shall be furnished to the Engineer.

While he is occupying the Site, the Contractor shall be liable for all damage caused by him to known services as well as for consequential damage, whether caused directly by his operations or by the lack of proper protection.

##### **PSA 5.4.2 Protection during repair and maintenance work**

The Contractor shall exercise all the necessary care to prevent damage to known services during repair and maintenance work. Where applicable, major excavating equipment and other Plant shall not be operated dangerously close to these services. Where necessary, excavation in close proximity to these services shall be carefully carried out with suitable hand tools, excluding picks wherever their use could damage the services. No additional payment will apply to such more difficult work. Services left exposed shall be suitably protected from damage.

##### **PSA 5.4.3 Alterations and repairs to existing services**

Unless the contrary is clearly specified or ordered, the Contractor shall not carry out alterations to existing services. When this is necessary, the Contractor shall inform the Engineer, who will either make arrangements for such work to be executed by the owner of the service, or instruct the Contractor to make such arrangements himself.



When existing services are damaged by the Contractor, he shall immediately inform the Engineer, or when this is not possible, the relevant authority, and obtain instructions as to who should carry out repairs. In urgent cases the Contractor shall take the necessary steps to minimise damage to and interruption of the service. No repairs of telecommunication cables or electric power lines and cables shall be attempted.

The Employer will accept no liability for damages due to a delay in having such alterations or repairs effected. The Contractor shall provide all reasonable opportunity, access and assistance to persons carrying out alterations or repairs of existing services."

ADD THE FOLLOWING SUBCLAUSE:

#### **PSA 5.9 SITE MEETINGS**

The Contractor will be required to attend regular site meetings, normally held once a month to discuss general progress, quality of work, problems, claims, payments, etc., but not matters concerning the day-to-day running of the Contract."

#### **PSA 6 TOLERANCES**

ADD THE FOLLOWING SUBCLAUSE:

##### **PSA 6.4 GENERAL**

No guarantee is given that the full specified tolerances will be available independently of each other, and the Contractor is cautioned that the liberal or full use of any one or more of the tolerances may deprive him of the full or any use of tolerances relating to other aspects of the work.

Except where the contrary is specified or when clearly not applicable, all quantities for measurement and payment shall be determined from the 'authorised' dimensions. These are specified dimensions or those shown on the Drawings or, if changed, as finally prescribed by the Engineer, without any allowance for the specified tolerances. Except if otherwise specified, all measurements for determining quantities for payment will be based on the 'authorised' dimensions.

If the work is therefore constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, quantities will be based on the 'authorised' dimensions regardless of the actual dimensions to which the work has been constructed.

When the work is not constructed in accordance with the 'authorised' dimensions plus or minus the tolerances allowed, the Engineer may nevertheless, at his sole discretion, accept the work for payment. In such cases no payment shall be made for quantities of work or material in excess of those calculated for the 'authorised' dimensions, and where the actual dimensions are less than the 'authorised' dimensions minus the tolerance allowed, quantities for payment shall be based on the actual dimensions as constructed."

#### **PSA 8 MEASUREMENT AND PAYMENT**

##### **PSA 8.1 MEASUREMENT**

##### **PSA 8.1.2 Preliminary and general items or section (for repair phase only)**

##### **PSA 8.1.2.2 Bid sums**

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"The Contractor's bid sums under items PSA 8.3 and PSA 8.4 shall collectively cover all charges during the repair phase for

- risks, costs and obligations in terms of the General Conditions of Contract, the Contract Data and of this Standardised Specification, except where provision is made in these Project Specifications to cover compensation for any of these items;
- head-office and site overheads and supervision;

- profit and financing costs;
- expenses of a general nature not specifically related to any item or items of permanent or temporary work;
- providing facilities on Site for the Contractor's personnel, including offices, storage facilities, workshops, ablutions, for providing services such as water, electricity, sewerage, sewage and rubbish disposal, for access roads and all other facilities required, as well as for the maintenance and removal on completion of the Works of these facilities and the cleaning-up of the camp site on completion of the Works;
- providing facilities for the Engineer and his staff as specified in SABS 1200 AB and in these Project Specifications"

## **PSA 8.2 PAYMENT**

### **PSA 8.2.1 Fixed-charge and value-related items**

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"Payment of fixed charges in respect of item 8.3.1 will be made as follows:

Eighty per cent (80%) of the sum bid will be paid when the facilities have been provided and approved. The remaining 20% will be paid when the repair works have been completed, the facilities have been removed and the camp site has been cleared and cleaned.

Payment for the sum bid under item 8.3.2 will be made in three separate instalments as follows:

(a) The first instalment, which is 40% of the sum, will be paid when the Contractor has fulfilled all his obligations to date under this Standardised Specification, the General Conditions of Contract and the Contract Data, and when the value of work certified for payment, excluding materials on Site and payments for preliminary and general items, is equal to not less than 5% of the total value of the repair work listed in the Bills of Quantities.

(b) The second instalment, which is 40% of the sum, will be made when the amount certified for payment, including retention monies but excluding this second instalment, exceeds 50% of the repair work.

(c) The final payment, which is 20% of the sum, will be made when the repair works have been certified as completed and the Contractor has fulfilled all his obligations to date under this Standardised Specification, the General Conditions of Contract and the Contract Data.

Should the value of the measured repair work finally completed be more or less than the Bid Sum for repair work, the sum bid under item 8.3.2 will be adjusted up or down in accordance with the provisions of Clause 50 of the General Conditions of Contract as amended in Part 1 of the Contract Data, and this adjustment will be applied to the third instalment. No adjustment will apply to item 8.3.1 in respect of variations in the value of work done or after the finally authorised Time for Completion."

Note: Payment under item 8.3.2 will only be applicable to repair work.

### **PSA 8.2.2 Time-related items**

REPLACE THE CONTENTS OF THIS SUBCLAUSE WITH THE FOLLOWING:

"Subject to the provisions of Subclauses 8.2.3 and 8.2.4, payment under item 8.4.1 (time- related item) will be made monthly in equal amounts for each installation, calculated by dividing the sum bid for the item by the repair phase period for the installation in months, provided always that the total of the monthly amounts so paid for the item is not out of proportion with the progress of the work on the installation as a whole.

Should the Engineer grant an extension of Time for Completion of the repair works on the installation, the Contractor will be entitled to an increase in the sum bid for the time- related item, which increase shall be in the same proportion to the original sum bid as the extension of time is to the original Time for Completion of the repair works.



Payment of such increased amounts will be deemed full compensation for all additional time-related preliminary and general costs due to the circumstances pertaining to the extension of time granted for an installation. The length of the repair phase for each installation is indicated in Part 1 of the Contract Data.

In the Bills of Quantities separate provision is made for time-related items for each installation individually. Time-related payment for an installation shall only be made when the repair work on the installation is in progress and shall end when the time for completion or an extension of time granted by the Engineer expires. When repair work on more than one installation is in progress, time-related payment will be made for each installation and the conditions as stated above shall apply to each installation individually."

### PSA 8.3 BILLED FIXED-CHARGE AND VALUE-RELATED ITEMS

REPLACE THE ITEMS WITH THE FOLLOWING:

<b>PSA 8.3.1</b>	<b>Fixed preliminary and general charges</b>	<b>Unit : Sum</b>
------------------	--	-------------------

PSA 8.3.2	Value-related preliminary and general charges	Unit : Sum
-----------	---	------------

The bid sums shall include full compensation for all fixed and value-related preliminary and general charges as described in Subclause PSA 8.1.2.2. Payment will be made as described in Subclause PSA 8.2.1."

### PSA 8.4 BILLED TIME-RELATED ITEMS

REPLACE THIS ITEM WITH THE FOLLOWING:

PSA 8.3.2	Time-related preliminary and general charges	Unit : Month
-----------	--	--------------

(a) KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND Ports of Entry

The bid sums shall include full compensation for all time-related preliminary and general charges as described in Subclause PSA 8.1.2.2. Payment will be made as described in Subclause PSA 8.2.2

Note: The total amount bid for items PSA 8.3.1, PSA 8.3.2 and PSA 8.4.1 shall not exceed 15% of the total amount for repair work, excluding value-added tax.

## PSA 8.8 TEMPORARY WORKS

REPLACE ITEM 8.8.4 WITH THE FOLLOWING:

**PSA 8.8.4      Location and protection of existing services:**

**PSA 8.8.4.1 Provision of detecting devices for:**

- (a) Water and sewer pipes
- (b) Electrical and other cables

The bid sums shall cover the cost of providing and operating suitable equipment for as long as it is needed to locate all the existing services likely to be affected by the construction activities. Alternatively, an approved specialist firm may be employed to carry out the work.

**PSA 8.8.4.2 Hand excavation necessary for locating and exposing existing services in all material:**

- |     |                    |         |
|-----|--------------------|---------|
| (a) | In roadways        | Unit:m3 |
| (b) | In all other areas | Unit:m3 |

The rates shall cover the cost of excavation by means of hand tools within authorised dimensions, for all precautionary measures to protect the services from damage during excavation and backfilling, and for subsequent backfilling and compacting. Compaction of material in all areas except in roadways shall be to 90% of the modified AASTHO density.

The rate for hand excavation in roadways shall include compensation for compacting excavated or selected backfill materials to 93% modified AASTHO density.

The tendered rates shall also include for keeping excavations safe, for dealing with surface and subsurface water, for removing surplus excavated material from Site, for transporting all material, and for supplying adequate supervision during both excavation and backfilling operations.

**PSA 8.9 ADDITIONAL TESTS:**

- |     |   |            |
|-----|---|------------|
| (a) | Additional tests required by the Engineer | Unit : Sum |
| (b) | Attendance and profit                     | Unit : %   |

An amount has been allowed in the Bill of Quantities under sub item (a) to cover the cost of additional tests required by the Engineer. The Engineer will have the sole authority to spend the amount or part thereof.

The bid percentage under sub item (b) will be paid to the Contractor on the value of each payment made to the testing authority.

Note in connection with sub item (a):

The Contractor is responsible for both the cost of normal testing as described in Subclause PS 8.10 in portion 1 of the Project Specifications and for the cost of any additional test that indicates that the Specifications have not been complied with.

**PSA 8.10 SECTIONAL FENCING FOR THE PROTECTION OF THE WORKFORCE Unit : m**

The bid rate shall include full compensation for the supply, delivery, initial erection and finally removal from the site of the sectional fencing. The cost to move the fencing will not be paid for separately but shall be deemed to be included in the rate bid.

**PSA 8.11 MAINTENANCE MATERIAL:**

Supply and deliver maintenance material to the site:

- |     |   |
|-----|---|
| (a) | Description of type of service for which material is needed:  |
| (i) | Description of specific material Unit: litre, m <sup>2</sup> , m, number (ii) Etc. for other types of material. |
| (b) | Etc. for other types of service.  |

The unit of measurement shall be the litre, square metre, metre or number as applicable to each item ordered on the written instructions of the Engineer.

The bid rates shall include full compensation for supplying and delivering to the maintenance store(s) of the Employer on the Site of the Works each item as billed and shall include for all labour, material, waste and, transport.

A complete book keeping system with delivery notes and order "invoices" shall be kept by the Contractor and the cost thereof shall be deemed to be included in the rates bid for the various items.

The rates bid will be fixed for the full duration of the repair and maintenance phases and shall be applicable to any quantity "ordered" irrespective of size, contents, volume of container or the number. The actual square metre size of the "ordered" items will be calculated to two decimal points for payment purposes. No "rounding-off" to the nearest square metre quantity will be allowed. It is expected that the maintenance material will be ordered in small quantities throughout the duration of the Contract."

### **PSA 8.12 COMPLIANCE WITH OHS ACT AND CONSTRUCTION REGULATIONS 2003**

#### **Unit: sum**

The bid sum shall include full compensation to the Contractor for compliance with all the requirements of the OHS Act and the Construction Regulations 2003 at all times during the repair and maintenance phase, as described in PS 13 of Portion 1 of the Project Specifications. The successful bidder shall provide the Engineer with a complete breakdown of this bid sum.

This sum will be paid to the Contractor in equal monthly amounts for the entire duration of the contract period.

#### **PSAB ENGINEER'S OFFICE**

##### **PSAB 3 MATERIALS**

##### **PSAB 3.1 NAMEBOARDS**

REPLACE THE FIRST SENTENCE OF SUB-CLAUSE 3.1 OF SABS 1200AB WITH THE FOLLOWING:

"The Contractor shall supply and erect at locations approved by the Engineer, the number of contract name boards specified in the Project Specifications, which, unless otherwise specified in the Contract, shall comply with the recommendations for the standard board of the South African Association of Consulting Engineers, with regards to size, painting, decorating and detail, and the requirements described hereunder."

##### **PSAB 3.2 OFFICE BUILDING(S)**

REPLACE THE WORDS: "as scheduled" IN PARENTHESIS IN THE FIRST LINE OF SUBCLAUSE 3.2 OF SABS 1200 AB WITH: "as specified in Portion 1 of the Project Specifications";

AND REPLACE SUBCLAUSE 3.2(j) OF SABS 1200 AB WITH THE FOLLOWING:

"(j) a heater and fan / air-conditioning unit both of such capacity that the inside of the office(s) is always at a temperature of between 20°C and 24°C."

ADD THE FOLLOWING SUBCLAUSE IN CLAUSE 3:

##### **PSAB 3.3 CAR-PORT**

The Contractor shall construct the number of carports indicated in Portion 1 of the Project Specifications, for the sole use of the Engineer and his staff. Each car-port shall be constructed so that the vehicle parked under it is always protected against the direct rays of the sun. The carport area shall be at least 20 m<sup>2</sup> and the floor shall be covered with a layer of crushed stone to alleviate dusty and muddy conditions. The carport(s) shall be positioned so as to provide easy and convenient access to the Engineer's office."

##### **PSAB 4 PLANT**

##### **PSAB 4.1 TELEPHONE**

REPLACE THE WORDS: "Department of Post and Telecommunications" WITH "Telkom" AND ADD THE FOLLOWING AT THE END OF SUBCLAUSE 4.1 OF SABS 1200 AB:

"In addition to a Telkom telephone and subject to satisfactory transmission and reception quality in the vicinity of the Site, the Contractor shall provide the number of cellular telephones and associated service contracts from a reputable cellular service provider, as specified in the Project Specifications, for the exclusive use of the Engineer and his staff."

ADD THE FOLLOWING NEW SUBCLAUSES TO CLAUSE 4 OF SABS 1200 AB:

**PSAB 4.3 TELEFAX FACILITIES**

No telefax facilities required.

**PSAB 4.4 SURVEY EQUIPMENT**

No survey equipment is required.

**PSAB 5 CONSTRUCTION**

**PSAB 5.4 TELEPHONE**

REPLACE THE CONTENTS OF SUBCLAUSE 5.4 OF SABS 1200 AB WITH THE FOLLOWING:

**PSAB 5.4.1 Telkom telephones**

The Contractor shall advise Telkom promptly of any faults which develop in the telephone service and shall, in such circumstances, arrange for the earliest possible restoration of the said service. The Contractor shall ensure that the telephone account is promptly paid.

**PSAB 5.4.2 Cellular telephones**

The Contractor shall advise the cellular service provider of any faults which develop in the cellular telephone service and/or the cellular telephone handsets and shall, in such circumstances, arrange for the earliest possible restoration of the said service. The costs of any necessary repairs and/or the replacement of components to the handsets of the cellular telephones shall be for the Contractor's account.

The Contractor shall ensure that all accounts for cellular phone calls and the respective service contracts are promptly paid."

ADD THE FOLLOWING NEW SUBCLAUSES TO CLAUSE 5 OF SABS 1200 SB:

**PSAB 5.7 TELEFAX FACILITIES**

No telefax facilities required.

**PSAB 5.8 SURVEY EQUIPMENT**

No survey equipment is required.

**C3.6 STANDARD MINIMUM REQUIREMENTS**

In terms of section 5(2) of the Construction Industry Development Board Act, 2000 (Act no. 38 of 2000) (the Act), the Construction Industry Development Board is empowered to establish and promote best practice standards, Standard Requirements and Guidelines which includes the following but not limited to:

C3.61 cidb Best Practice: Green Building Certification, No. 34158 Government Gazette, 1 April 2011

C3.6.2 cidb Standard for Developing Skills through Infrastructure Contracts, No. 36760 Government Gazette, 23 August 2013

- C3.6.3 cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013
- C3.6.4 Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017, No. 40553 Government Gazette, 20 January 2017
- C3.6.5 cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.6.6 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.6.7 cidb Standard for Minimum Requirements for Engaging Contractors and Sub- Contractors on Construction Works Contracts, No. 42021 Government Gazette, 9 November 2018
- C3.6.8 cidb Standard for Developing Skills through Infrastructure Contracts, No. 43495 Government Gazette, 3 July 2020

### C3.7 CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME

The contractor shall achieve in the performance of the contract the following Contract Participation Goals (CPGs) as indicated below. Provision for pricing of compliance with the achieving the CPGs is made in the Contract Participation Goal Section of the Bills of Quantities and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced thereunder and no additional claims in this regard shall be entertained:

#### C3.7.1 Minimum Targeted Local Material Manufacturer Contract Participation Goal

**The Minimum Targeted Local Building Material Manufacturers CPG is *applicable* to this project.**

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Manufacturers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020.

A Targeted Local Material Manufacturer is a targeted enterprise that operates or maintains a factory or establishment that produces on its premises materials or goods required by the principal contractor for the performance of the contract.

Note: Adapted from SANS 10845-7:2015, definition 2.13

Preference shall be given to the Targeted Local Material Manufacturer where feasible in **Ngaka Modiri Molema District Municipality**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The non-availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- (d) Materials of at least **30% (Thirty Percent)** of the total value of materials purchased excluding VAT to be sourced from within **200km** radius of the project site,
- (e) Materials of at least **30% (Thirty Percent)** of the total value of materials purchased excluding VAT to be sourced from within **200km** radius of the project site.

Failure to achieve the minimum **15% (Thirty Percent)** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT,

will result in a **5% (Five Percent)** penalty of the prorated targeted value of materials not complied with unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

### **C3.7.2 Minimum Targeted-Local Building Material Suppliers Contract Participation Goal**

**The Minimum Targeted Local Building Material Suppliers CPG is *applicable* to this project.**

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Suppliers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

A targeted supplier is a targeted enterprise that

- a) owns, operates or maintains a store, warehouse or other establishment in which goods are bought, kept in stock and regularly sold to wholesalers, retailers or the public in the usual course of business; and
- b) engages, as its principal business and in its own name, in the purchase and sale of goods.

Note: Adapted from SANS 10845-7:2015, definition 2.14

Preference shall be given to the local material suppliers where feasible in the **Ngaka Modiri Molema District Municipality**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The non availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- (d) Materials of at least **30% (Thirty Percent)** of the total value of materials purchased excluding VAT to be sourced from within **200km** of the project site,
- (e) Material of at least **30% (Thirty Percent)** of the total value of materials purchased excluding VAT to be sourced from within **200km** of the project site.

Failure to achieve the minimum **15% (Thirty Percent)** Targeted Local Material Manufacturer participation expressed as a percentage of the original tender amount, excluding allowances and VAT, will result in a **5% (Five Percent)** penalty of the prorated targeted value of materials not complied with, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

### **C3.7.3 Minimum Targeted Local Labour Skills Development Contract Participation Goal**

**The Minimum Targeted Local Labour Skills Development CPG is *applicable* to this project.**

It is the requirement of the employer that the contractor enhances the use of local labour in executing this contract. This is required to be done through the use of both traditional building techniques and labour-intensive construction techniques careful and considered construction planning and implemented in the project irrespective whether a minimum percentage Participation Goal is applicable or not.



The Minimum Targeted Local Skills Development Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. No. 48491 of 28 April 2023 and the cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract..

Targeted labour: individuals who:

- a) are employed by the principal contractor, sub-contractor or targeted enterprises in the performance of the contract;
- b) are defined as the target group in the targeting data; and
- c) permanently reside in the target area or who are recognized as being residents of the target area on the basis of identification and association with and recognition by the residents of the target area.

Adapted from SANS 10845-7:2015, definition 2.12

Targeting of labour by skills categories is only permissible within categories of semi-skilled and unskilled labour.

Contract participation goals for semi-skilled and unskilled labour shall be limited to on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract and in a manner that does not compromise worker health and safety. In the case of targeted labour, the certification of records shall be in accordance with SANS 10845-8.

Beneficiaries will be sourced from the **North West Province** for the full duration of the Construction Period, employed by either the principal contractor, sub-contractors or targeted enterprises. The total number of working days to complete the Works amount to **1095** working days. The minimum CPG participation for Targeted Local Labour Skills Development is **5% (Five Percent)**, expressed as a percentage of the total number of working days required to complete the Works. The contractor shall attain or exceed the CPG in the performance of the contract. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of **R5 000** (Excluding VAT), per working day which training has not been provided to the workforce in attendance, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

#### **C3.7.4 CIDB BUILD PROGRAMME: Minimum Targeted Enterprise Development Contract Participation Goal**

**The Minimum Targeted Enterprise Development CPG is *applicable* to this project.**

The aim of this best practice standard for indirect targeting for enterprise development in accordance with the Standard for Indirect Targeting for Enterprise Development (published in Government Gazette 36190 of 25 February 2013), as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract. is to promote enterprise development by providing for a minimum contract participation goal (CPG) of **five percent (5%)** of the contract amount as defined in the Standard (Tender amount, excluding allowances and VAT on selected contracts to be undertaken by joint-venture partners or to be sub-contracted to developing contractors that are also to be beneficiaries of enterprise development support from the main contractor.

The lead partner or main contractor shall dedicate a **minimum five percent (5%)** of the tender value at the time of award, excluding allowances and VAT, to provide developmental support to targeted subcontractor or joint venture partner applicable to contracts in Grades 7 to 9, General Building and Civil Engineering contracts. Preference will be given to **Civil Engineering, General Building, Electrical and Mechanical** Enterprises.

The contractor shall attain or exceed the enterprise development goal in the performance of the contract. Failing to achieve the Participation Goal will result in A) a thirty percent (30%) penalty of the

value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

#### C3.7.4.1 Criteria

The main or lead partner of the successful bidder shall:

- (a) There must be a needs analysis for indirect targeting and development or skill standard and should be development in at least any two developmental areas namely;
  - Administrative and cost control systems
  - construction management systems and plans
  - planning, tendering and programming
  - business; technical; procurement skills
  - legal compliance
  - credit rating/history; financial loan capacity/history
  - contractual knowledge
- (b) The above needs analysis shall be mutually agreed upon between contractor and targeted enterprise
- (c) The contractor shall appoint an enterprise development coordinator to:
  - perform needs analysis on the targeted enterprise to identify developmental goals
  - develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas
  - provide internal mentorship support to improve the targeted enterprise/s performance
  - monitor and submit to the employer's representative a monthly enterprise development report thereby reporting on the progress of the agreed development areas with the targeted enterprise/s
  - submit a project completion report to the Employer's representative for each targeted enterprise.

#### C3.7.4.2 Management

The contractor shall provide a competent person/s to provide internal mentorship to the Targeted Enterprise/s in the two agreed developmental areas.

#### C3.7.4.3 Competence Criteria for an Enterprise Development Co-ordinator

The enterprise development co-ordinator shall have the following competencies:

- Minimum experience of 5 years in the construction industry at Managerial level as a Site Agent, Contracts Manager, Site Manager, Construction Manager, Business Development Manager or Enterprise Development Manager.
- Minimum experience of 2 years in training and development in Building or Construction; and
- National Diploma or B Degree in the Built Environment or Business Management

#### C3.7.4.4 Format of Communications

The contractor shall submit to the Employer's Representative:



- *Project interim reports* in the specified format (**ED105P**) detailing interim values of the CPG that was achieved together with an assessment of the enterprise development support provided should be tabled and discussed at least monthly at progress meetings between employer's representative and the contractor;
- *Project completion report* in the specified format (**ED101P**) to the Employer's Representative for acceptance within 15 days of achieving practical completion. The report shall include the value of the CPG that was certified in accordance with the contract, cidb registration numbers of each and every targeted enterprise, and the value of the subcontracted works or of the joint venture entered into; and the participation parameter
- *Enterprise development declaration* (**ED104P**).

#### C3.7.4.5 The Key Personal

The contractor shall appoint an Enterprise Development Co-ordinator and a competent person/s to provide internal mentorship.

#### C3.7.4.6 Management Meetings

The contractor shall report to the Employer's Representative on the implementation and progress of the targeted enterprise development and CPG at monthly progress site meetings.

#### C3.7.4.7 Forms for contract administration

The contractor shall submit to the Employer's Representative the following proformas:

- Form ED 105P Project Interim Report
- Form ED 104P Enterprise Development Declaration
- Form ED 101P Project Completion Report

#### C3.7.4.8 Records

The contractor shall:

- keep records of the targeted enterprise development
- keep records of the payments made to the targeted enterprises in relation to the CPG.
- ensure all the documentation required in terms of the Standard is provided with each monthly progress payment certificate and according to a prescribed format where applicable.

#### C3.7.4.9 Payment Certificates

The contractor shall:

- achieve the measurable CPG and providing enterprise development support to the targeted enterprise/s as per the Standard.
- submit payment certificates to the Employer Representative at intervals determined in the Contract.

#### C3.7.4.10 Compliance requirements

##### **Non-compliance with the Best Practice Project Assessment Scheme**

The wording of regulation 27A of the cidb regulations makes provision for the Board to enforce the cidb code of conduct in the event of clients being found to be in breach of the best practice project assessment scheme.

- Not including the requirements of the cidb standards in the conditions of tender
- Not registering the award of contract on the cidb Register of Projects (RoP)
- Not reporting practical completion on the cidb Register of Projects (RoP)

### 3.7.5 CIDB BUILD PROGRAMME: Minimum Targeted Contract Skills Development Goal (CSDG)

**The Minimum Targeted Contract Skills Development CPG is *applicable* to this project.**

The contractor shall achieve or exceed in the performance of the contract the Contract Skills Development Goal (CSDG) established in the Standard for Developing Skills through Infrastructure Contracts (published in Government Gazette No 48491 of 23 April 2023 and the cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 – Condition of Contract.

Failing to achieve the targeted Contract Skills Development Goal will result in A) a **thirty percent (30%)** penalty of the value of the portion not achieved, excluding VAT, and B) the issuing of completion certificates only after the completion certificate of achieving the skills development goal, counter-signed by the relevant individuals has been submitted, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

#### C3.7.5.1 Methodology

The contractor shall achieve the measurable contract skills development goal by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the following in relation to work directly related to the contract or order:

Method 1: structured workplace learning opportunities for learners towards the attainment of a part or a full occupational qualification;

Method 2: structured workplace learning opportunities for apprentices or other artisan learners towards the attainment of a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012) subject to at least sixty percent (60%) of the artisan learners being holders of public TVET college qualifications;

Method 3: work integrated learning opportunities for University of Technology or Comprehensive University students completing their national diplomas;

Method 4: structured workplace learning opportunities for candidates towards registration in a professional category by a statutory council listed in Table 1 above.

The contract skills participation goals, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 2 in the Standard for the applicable class of construction works.

*Table 2: Contracting skills development goals for different classes of engineering and construction works contracts*

Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004		Construction skills development goal (CSDG) (%)
Designation	Description	
CE	Civil Engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

*Table 3: Notional Cost of Training per Headcount*

Source: cidb Standard for Skills Development

Type of Training Opportunity	Provision for stipends (Unemployed learners only)	Provisions for mentorship	Provisions for additional costs*	Total costs	
				Unemployed learners	Employed learners
Method 1					
Occupational qualification	R7 000	R0	R9 000	R16 000	R9 000
Method 2					
TVET College graduates	R14 000	R0	R9 000	R23 000	N/A
Apprenticeship	R14 000	R0	R12 000	R26 000	R12 000
Method 3					
P1 and P2 learners	R24 000	R20 000	R4 500	R48 500	N/A
Method 4					
Candidates with a 3 year diploma	R37 000	R20 000	R4 500	R61 500	R20 000
Candidates with 4 year qualification	R47 000	R20 000	R4 500	R71 500	R20 000

*Note: the required CPG will be recalculated based on the awarded tender amount and "Contract amount" once the beneficiaries have been appointed and actual costs are known. The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI. Should the rates increase after bid award or during construction the rates will be adjusted as a remeasuarble item.*

- (a) (a) The successful contractor may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).
- (b) The successful contractor must employ at least sixty percent (60%) of the learners from an FET / TVET college should the contractor select to have part/full occupational qualification learners and trade qualification learners contributing to the CSDG.
- (c) The successful contractor shall employ at least **30% (Thirty Percent)** from eligible part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates in the employment of the employer.

- (d) The successful contractor shall ensure that no single method shall contribute more than seventy five percent (75%) of the CSDG for the contract.
- (e) The successful contractor may only place thirty three percent (33%) employed employees or that of his subcontractors contributing to the CSDG.
- (f) The contractor shall employ at least sixty percent (60%) of the learners from a Public FET / TVET college should the contractor select to have trade qualification learners (Method 2) contributing to the CSDG.
- (g) One of the objectives of the project is to train **30% (Thirty Percent)** Occupational qualifications, trade qualification, work integrated learners – P1 and P2 learners, professional candidates.

#### C3.7.5.2 Management

- (a) The successful contractor must keep site records regarding the part/full occupational qualification learners', trade qualification learners', work integrated learners' or candidates' progress, site attendance, hours worked and other relevant information as required by the Standard.
- (b) The successful contractor shall provide the required number of appropriately qualified mentors to the maximum number of part/full occupational qualification learners, trade qualification learners, work integrated learners in the proportion as specified in the Standard.
- (c) The successful contractor shall provide a supervisor to manage the training of the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates.
- (d) The successful contractor shall submit to the employer's representative a baseline training plan in the specified format (Pro-forma A2) for the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates within 30 days of start of the contract.
- (e) The successful contractor shall submit to the employer's representative project interim report in the specified format (Pro-forma A3) on the progress of each of part/full occupational qualification learner, trade qualification learner, work integrated learner, candidate every three months.
- (f) The successful contractor shall submit to the employer's representative the names and particulars in the specified format (Pro-forma A4) of the supervisor, mentors for the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates within 30 days of start of the contract.
- (g) The successful contractor shall keep a daily record of all the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates on site and their daily activities and shall be made available to the employer's representative on request.
- (h) The successful contractor shall submit to the employer's representative the reports on the progress and status of the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates with the monthly invoice for the payment certificate.
- (i) The successful contractor shall have health and safety inductions for all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates .
- (j) The successful contractor shall conduct entry and exit medical tests of all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates .
- (k) The successful contractor shall provide personal protective equipment (PPE) to all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates at the start of their employment on site.
- (l) Based on the agreed skills methods the contractor may employ part/full Occupational Qualification Learners and /or Trade Qualification Learners and/or Work Integrated Learners and/or Candidates directly or through a Skills Development Agency (SDA), training provider or skills

development facilitator (Form A1 - List of cidb accredited SDAs). The contractor shall ensure that no more than one Method shall be applied to any individual concurrently in the calculation of the CSDG for the contract.

### C3.7.6 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME (NYS)

**The National Youth Service Training and Development Programme is *not applicable* to this project.**

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities. Monthly reports are to be submitted to the Employer's Representative.

Failure by the contractors to achieve the specified number to be trained in the NYS section of the CPG section within the Bills of quantities will result in a payment reduction as per bill of quantities per person, excluding VAT unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

### C3.7.7 LABOUR-INTENSIVE WORKS

**Labour Intensive Works is *applicable* to this project.**

Where labour intensive work is specified in the Bill of Qualities and indicated by "LI" the contractor must price for and include in rates. Contractors are expected to use their initiative to identify additional activities that can be done labour-intensively to comply with the set minimum labour intensity target. Allowance must be made for submitting monthly reports illustrating the value of the works executed under Labour Intensive Works.

Failure by the contractor to achieve the specified value of the Labour Intensive Participation Goal as stipulated within the Bills of quantities will result in a thirty percent (30%) penalty of the value of the works not done by means of labour intensive methods, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

#### Employer's objectives:

The employer's objectives are to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines.

#### Labour-intensive works:

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work. A **thirty percent (30%)** penalty of the value of the works will be imposed on items where unauthorised use of plant was used to carry out work which was to be done labour-intensively.

#### Labour-intensive competencies of supervisory and management staff:

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (See Appendix C) at NQF outlined in Table 1

#### C3.7.7.1 GENERIC LABOUR-INTENSIVE SPECIFICATION

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP) for the generic labour-intensive specification applicable to the contract.

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- trenches having a depth of less than 1.5 metres
- stormwater drainage
- roads
- sidewalks and non-motorised transport infrastructure
- water and sanitation

### **Precedence**

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail

### **Hand excavateable material**

Hand excavateable material is:

#### **a) granular materials:**

- whose consistency when profiled may in terms of table 2 be classified as very loose, loose, medium dense, or dense; or
- where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;

#### **b) cohesive materials:**

- whose consistency when profiled may in terms of table 2 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

### **Note**

- 1) A boulder is material with a particle size greater than 200mm, a cobble and gravel is material between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

<b>Table 2: Consistency of materials when profiled</b>			
<b>GRANULAR MATERIALS</b>		<b>COHESIVE MATERIALS</b>	
<b>CONSISTENCY</b>	<b>DESCRIPTION</b>	<b>CONSISTENCY</b>	<b>DESCRIPTION</b>
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.
Dense	Very high resistance to penetration by the sharp end of a geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point.



### **Trench excavation**

All hand excavateable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.

### **Compaction of backfilling to trenches (areas not subject to traffic)**

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers;

- a) to ninety percent (90%) Mod AASHTO;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than ten (10%) gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

### **Excavation**

All excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand. Any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

### **Clearing and grubbing**

Grass and bushes shall be cleared by hand.

### **Shaping**

All shaping shall be undertaken by hand.

### **Loading**

All loading shall be done by hand. Haulage equipment should be selected in a manner that allows loading by hand to the greatest extent possible.

### **Haul**

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

### **Offloading**

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage.

### **Spreading**

All material shall be spread by hand.

### **Compaction**

Small areas may be compacted by hand provided that the specified compaction is achieved. Appropriate rollers should be used where higher (than can be achieved by hand) levels of compaction are required or for large areas.

### **Grassing**

All grassing shall be undertaking by sprigging, sodding, or seeding by hand.

### **Stone pitching and rubble concrete masonry**

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must to be collected, loaded, off loaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

### **Manufactured Elements**

Elements manufactured or supplied by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. Where the mass of an element exceeds 55 kg, consideration should be given to the size of the element relative to its total mass related to the number of workers who would be needed to lift such mass

### **C3.8 Submission of Accrual Reports**

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date.

### **C.3.9 Submission of Monthly Local Material Utilisation Report (Local Content)**

The contractors shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account.

Failure by the contractors to achieve the specified percentage of local content per designated industry/sector/sub-sector as listed will result in a thirty percent thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control. Allowance must be made for submitting monthly reports illustrating the value of local material utilisation report.



## Examples of calculating CPGs and related penalties

CPGs values are based on the Tender Amount at the time of the award. Determining the actual values is based either on the Tender Amount including allowances and Vat or the Tender Amount at the time of award excluding allowances and VAT, where Allowances include the following:

- Provisional amounts
- CPG allowances
- Nominated and/or selected subcontractors
- Contract price adjustment (Not provided for within the B of Q by NDPWI)
- Contingency amounts (Not provided for within the B of Q by NDPWI)

**CPG values in the CPG Bill of Quantities Section will be recalculated based on the “Tender Amount” or the “Contract Amount” which ever applicable and the provisional amounts adjusted accordingly. Sanctions (penalties) are applicable to all CPGs where the contractor fails to achieve the minimum specified requirements, unless the contractor can prove to the Employer’s satisfaction that the non-achievement was beyond his/her control. No penalties will be applied should the CPG value, based on the original “Tender Amount” or the “Contract Amount”, has been achieved.**

### 1.1 Targeted Local Building Material Manufacturers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

#### CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG to be achieved = 5% as specified in the Scope of Works (PG01.1)

CPG target value = R130 Mil x 5% = R 6,5 Mil (Value of material to be purchased from local manufacturers, excluding VAT)

#### Calculation of penalty:

Percentage penalty applicable = 10% as specified in the Scope of Works (PG01.1)

CPG target value = R6,5 Mil excluding VAT

CPG Achieved = R5,5 Mil (R1 Mil shortfall) excluding VAT

Penalty = R1 Mil x 10% = R100 000 excluding VAT

### 1.2 Targeted Local Building Material Suppliers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

#### CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG to be achieved = 5% as specified in the Scope of Works (PG01.1)

CPG target value = R130 Mil x 5% = R 6,5 Mil (Value of material to be purchased from local suppliers, excluding VAT)

#### Calculation of penalty:

Percentage penalty applicable = 20% as specified in the Scope of Works (PG01.1)

CPG target value = R6,5 Mil excluding VAT

CPG Achieved = R5,5 Mil (R1 Mil shortfall) excluding VAT

Penalty = R1 Mil x 20% = R200 000 excluding VAT

### 1.3 Targeted Local Labour Skills Development CPG

When applicable, the CPG is expressed as a percentage of the total number working days required to complete the Works.

#### CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)  
Number of working days required to complete the Works based on the construction period = 600 days  
CPG percentage participation to be achieved = 30% as specified in the Scope of Works (PG01.1)  
Required number of working days training to be provided = 180 days (600 x 30%)

Calculation of penalty:

Payment reduction = R 5 000 per day for not providing training as specified in the Scope of Works (PG01.1)  
CPG = 600 working days x 30% = 180 working days training to be provided  
CPG Achieved = 160 days (20 days shortfall where no training was provided)  
Penalty = 20 days x R5 000 payment reduction per day= R100 000 excluding VAT

#### 1.4 Cidb BUILD Programme: Enterprise Development

When applicable, the Enterprise Development CPG expressed as a percentage of the “Contract amount” = Tender amount at the time of award excluding allowances and VAT. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of an amount specified in the Scope of Works (PG01.1) per working day where training was not provided.

The monetary value of training to be provided is stipulated in the CPG BoQ section. The number of beneficiaries to be trained is dependent on the “Contract Amount” as well the number of beneficiaries appointed which will generally resort under the Grade 1 and 2 cidb categories. The provisional amount will therefore be adjusted in terms of the “contract Amount”, the number of beneficiaries to be trained and the actual cost for providing the training.

Part 1: Calculation of 5% CPG example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT  
“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)  
CPG percentage participation to be achieved = 5% as specified in the Scope of Works (PG01.1)  
CPG value = R6,5 Mil (Value of work to be subcontracted to emerging enterprises)

Calculation of penalty

Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.1)  
CPG Minimum 5% = R6,5 Mil  
Achieved = R5,5 Mil (Only subcontracted work to the value of R5,5 Mil, i.e. R1 Mil shortfall)  
Penalty = R1 Mil x 30% = R300 000 Excl. VAT

Part 2: Calculations in terms of training to be done:

The number of enterprises to be developed is subject to the contract amount and the apportionment of the work as per Example 1 below.  
Number of enterprises to be trained = 6 x 1 GB subcontractors  
Total cost for training = R 1 660 000

Calculation of penalty

Total number of enterprises to be trained = 6  
Total number trained = 4 (2 Shortfall)  
Training cost per beneficiary = R1 660 000 / 6 = R 276 666,67 per beneficiary  
Penalty = R 276 666,67 x 2 x 30% = R166 000 Excl. VAT

B of Q Item	Description	Unit	Rate	Quantity	Amount (R)
<b>5</b>	<b>Enterprise Development</b>				
5.1	Enterprise Development of Targeted Enterprise or JV partners				
5.1.1	Appointment of training co-ordinator	Per Quarter	45 000	8	360 000
5.1.2	Appointment of Mentor /Training Service provider	Per Quarter	135 000	8	1 080 000
5.1.3	Needs Analysis and Enterprise Development Plan per Targeted Enterprise	No.	5 000	6	30 000
5.1.4	Monitoring and Interim reporting per targeted enterprise	Per Quarter	20 000	8	160 000
5.1.5	Project Completion report per Targeted Enterprise	No.	5 000	6	30 000
	<b>Provisional Sum to be carried over to CPG bill of quantities</b>				<b>1 660 000</b>

“Contract amount” Tender amount excl. allowances and VAT. 130 000 000  
CPG Monetary value (5%) to be subcontracted to beneficiaries for 6 500 000

B of Q Item	Description	Unit	Rate	Quantity	Amount (R)
	training				
	No of enterprises based on the CPG value	6	Grade 1 / 2 GB/CE,ETC.		
	Contract period (months)	24			
<b>Note: Rates to be determined by PQS and adjusted to accepted quotation amounts</b>					

### 1.5 Cidb BUILD Programme: Skills Development (Principal contractor including subcontractors and consultants)

When applicable, the contract skills development participation goals, expressed in Rand, shall be no less than the “contract amount” multiplied by a percentage (%) factor for the applicable class of construction works.

The monetary value of training to be provided is stipulated in the CPG BoQ section. The number of beneficiaries to be trained is dependent on the “Contract Amount” as well the number of beneficiaries appointed which will generally resort under the Grade 1 and 2 cidb categories. The provisional amount will therefore be adjusted in terms of the “Contract Amount”, the number of beneficiaries to be trained from which *Method* and the actual cost for providing the training.

#### CPG Calculation

**Table 2: Contracting skills development goals for different classes of engineering and construction works contracts**

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020 (Page 7)

Class of construction works as identified in terms of Regulation 25 (3) of the Construction Industry Regulations 2004		Construction skills development goal (CSDG) (%)
Designation	Description	
CE	Civil Engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5
ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

“Contract amount” = Tender amount at the time of award excluding allowances and expenses, and VAT

#### Contractor CPG:

CPG calculation

“Contract amount” x factor from Table 3 above.

#### CPG calculation example:

“Tender Amount” = R150 Mil for GB, all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

Factor for GB = 0,5% (as per Table 2 above)

CPG in R value = R130 Mil x 0,5% = R650 000 i.e. total notional cost of training to amount to R650 000

#### Calculation of penalty:

Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.1)

CPG value = R650 000

Achieved = R550 000 = R100 000 Shortfall

Penalty = R100 000 x 30% = R30 000 Excl. VAT

#### Calculations based on “Contract Amount” after bid award and appointment of beneficiaries

Actual CPG training requirement value after award upon selecting method/s of training and appointment of beneficiaries = R676 000 (Table 4 below) and the provisional amount allowed for to be adjusted accordingly. The new monetary value of training required will then form the basis for determining penalties applicable. No penalties will be applied should the CPG value, based on the “Contract Amount” be achieved.

*Table 4: Notional cost recalculation upon appointment of beneficiaries.*

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 43495 of 3 July 2020 (Page 10)

Skills Types	Number of learners	Notional Cost / Learner / Quarter	Notional cost / learner / year	Total Notional Cost over 12 months Contract
<b>Method 2:</b> Workplace learning opportunities, with unemployed TVET graduates	2	R23 000	R92 000	R184 000
<b>Method 3:</b> Candidacy for an unemployed learner with a 3-year qualification	2	R61 500	R246 000	R492 000
Total	4			R676 000

Note: the required CPG will be recalculated based on the awarded Tender amount and "Contract Amount" once the beneficiaries have been appointed and actual costs are known

Note: The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI as published by Stats SA. The rates will be adjusted as an adjustment to the provisional amounts should the rates increase after bid award or during the construction period

## 1.6 National Youth Service Programme (NYS) CPG

When applicable, a separate NYS Bill of Quantities will be included in the tender documentation will indicate the number of beneficiaries to be trained.

### Calculation of penalty:

Payment reduction per person not trained as stipulated in the NYS Bill of Quantities = R 2 500 per person.

Total number of NYS Beneficiaries as stipulated in the NYS Bill of Quantities = 25

Total Number of NYS beneficiaries trained = 20 (shortfall of 5 beneficiaries)

Penalty = 5 x R2 500 = R12 500 Excl. VAT

## 1.7 Labour Intensive Works CPG

When applicable, the work to be done by way of Labour intensive methods are specified in the Bills of Quantities with a "LI".

### CPG calculation example:

"Tender Amount" = R150 Mil all inclusive of allowances and VAT

"Contract Amount" = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG value = R10 Mil (Total value of labour-intensive works specified in the Bills of Quantities)

### Calculation of penalty:

CPG value = R10 Mil

Percentage penalty applicable = 30% as specified in the PG01.1 Scope of Work

CPG Achieved = 9 Mil (R1 Mil shortfall)

Penalty = R1 Mil x 30% = R300 000 Excl. VAT

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **PART C4 SITE INFORMATION**

KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)

## **C4.1 SITE INFORMATION – GCC 2015 3<sup>rd</sup> Edition**



## PG-03.1 (EC) SITE INFORMATION – GCC 3<sup>rd</sup> Edition (2015)

Project title:	<b>KOPFONTEIN, SWARTKOPFONTEIN AND DERDEPOORT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL, AND INSTALLATIONS (APPOINTMENT OF CONTRACTOR)</b>			
Tender no:	H24/025AI	WCS no:	056389	Reference no: H24/025AI

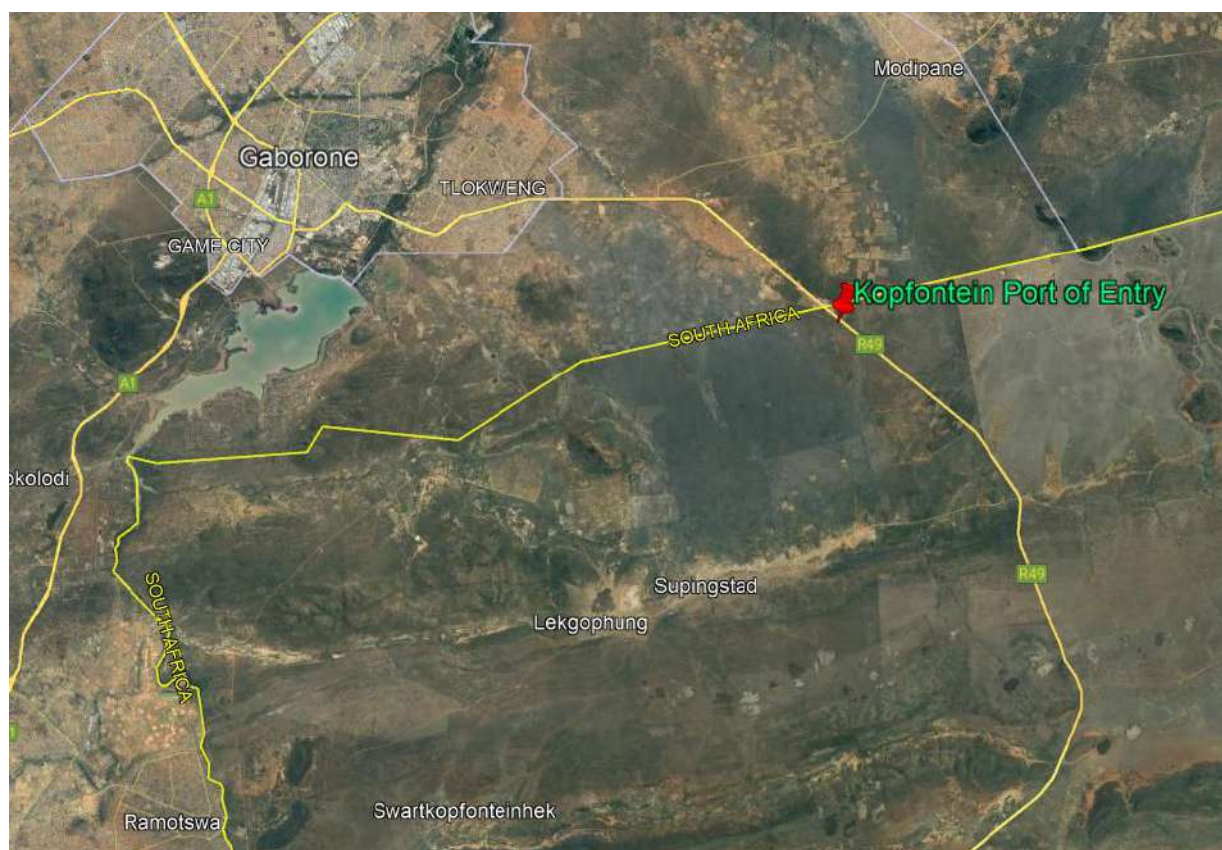
### C4 Site Information

The location of each facility is briefly described below:

#### Kopfontein Land Port of Entry

Kopfontein Land Port of Entry is situated on the border between South Africa and Botswana on portion 1 of Kopfontein 78 KP. The Land Port of Entry is approximately 100 km from Zeerust. (GPS Co-ordinate: 24°42'15.12"S 26° 5'27.56"E).

The Locality of this border is shown below on **Figure 2.1.1**



**Figure 0.1: Kopfontein Locality Map**

### Swartkopfontein Land Port of Entry

Swartkopfontein Land Port of Entry is situated on the border between South Africa and Botswana. The Port of Entry is accessible on the R47 road about 267 km from Zeerust heading north towards the Botswana border line. Swartkopfontein (GPS Co-ordinates: 24°52'26.12"S 25°53'9.14"E) For the locality map see **Figure 2.2.1**



**Figure 0.2: Swartkopfontein Locality Map**



### Derdepoort Port of Entry

Derdepoort Land Port of Entry is situated on the border between South Africa and Botswana on portions 2 & 3 Derdepoort 84 KP. The Land Port of Entry is approximately 135 km from Zeerust. Derdepoort (GPS Co-ordinate are: 24°38'34.06"S 26°24'13.14"E). The Locality of this border is shown below on **Figure 2.3.1**



**Figure 0.1: Derdepoort Port of Entry**