



public works  
& infrastructure

*[Signature]* 2024/08/23

BOOK 1 OF 2

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

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS  
INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL AND INSTALLATIONS  
(APPOINTMENT OF A CONTRACTOR)**

TENDER NUMBER: H24/017 AI

REFERENCE NUMBER: H24/017 AI

**TENDER DOCUMENT**

**AUGUST 2024**

**ISSUED BY:**

**THE DIRECTOR-GENERAL**

**Department of Public Works and Infrastructure**

**Central Government Offices**

**C/o Bosman & Madiba streets**

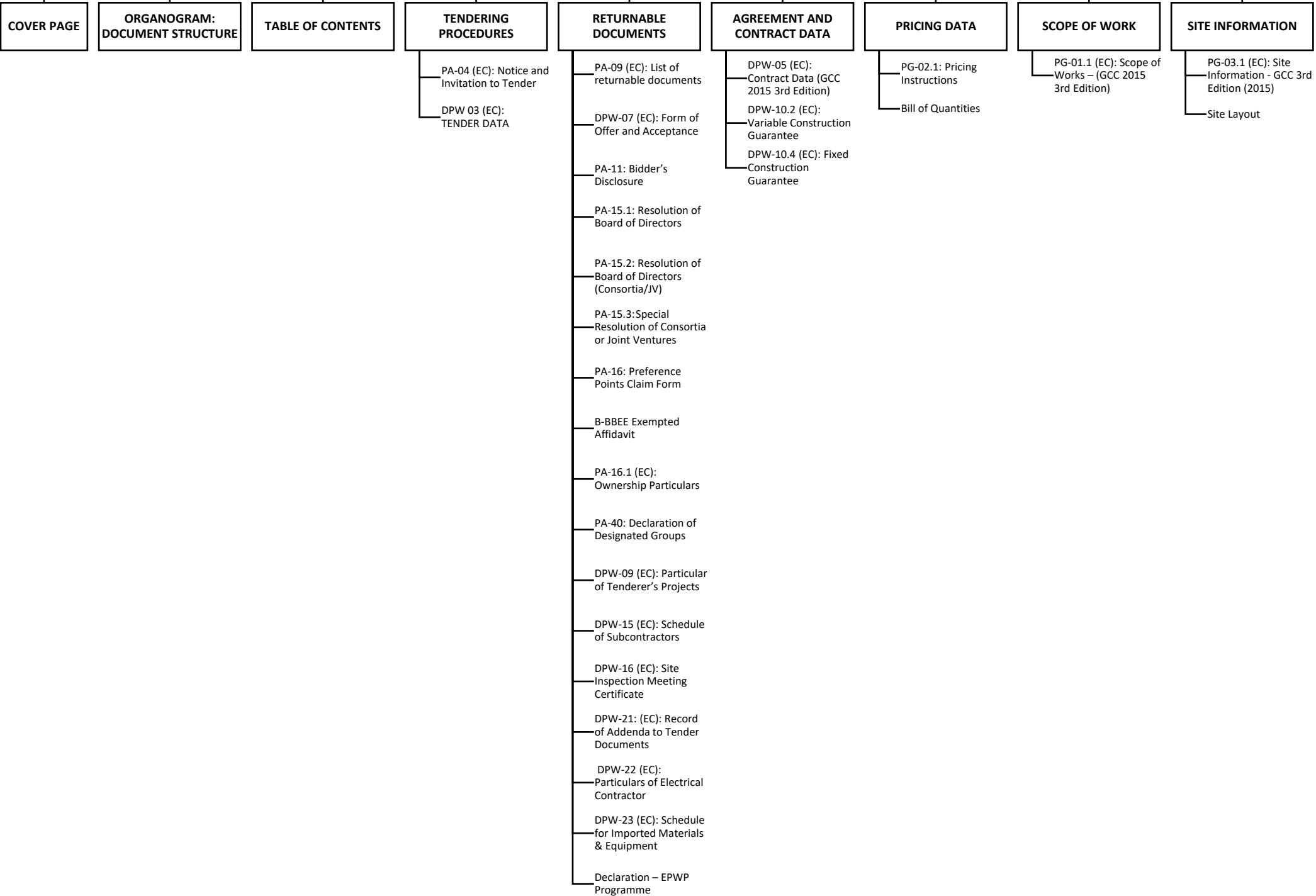
**Pretoria**

**0001**

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

RETURNABLE DOCUMENT

REPAIR AND MAINTENANCE PROGRAMME CONTRACT  
DOCUMENT BREAKDOWN STRUCTURE



GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

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**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
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INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)**

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**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)**

**THE TENDER**

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A 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>	GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)
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<b>Tender no:</b>	H24/017 AI	<b>Reference no:</b>	H24/017 AI
<b>Advertising date:</b>	23 AUGUST 2024	<b>Closing date:</b>	16 SEPTEMBER 2024
<b>Closing time:</b>	11:00	<b>Validity period:</b>	84 Calendar days

### 1. REQUIRED CIDB GRADING

It is estimated that tenderers should have a CIDB contractor grading designation of **8 CE** or **8 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>
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<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 x 4 (2 for Golela border post and 2 for Onverwacht border post ), and Class IV (1 x Supervisor) or higher (All required)
- (v) 2 x Electrician (All required)
- (vi) 2 x Air- Conditioner Technician (All required)
- (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.

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.

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 1-2 items listed above submitted = 0 point.

35



<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.  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 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>	65
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(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.
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### 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)
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#### 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
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#### 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 8CE or 8GB 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 that the similar work force as indicated on Functionality criteria 9.1 will be employed after the award of this tender.
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 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>

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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>
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**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".

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	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
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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 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  
Department of Public Works and Infrastructure, Central Government Offices, C/o  
Bosman & Madiba streets, Pretoria, 0001. A non-refundable bid deposit of R 900 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>	GOLELA BORDER POST		
<b>Virtual meeting link:</b>	N/A		
<b>Date:</b>	Monday 02 September 2024	<b>Starting time:</b>	11:00

## 11. ENQUIRIES

11.1. Technical enquiries may be addressed to:

<b>DPWI Project Manager</b>	Mr Goodwill Lukhele	<b>Telephone no:</b>	012 406 1124
<b>Cellular phone no</b>	082 957 4451	<b>Fax no:</b>	
<b>E-mail</b>	goodwill.lukhele@dpw.gov.za		

11.2. SCM enquiries may be addressed to:

<b>SCM Official</b>	Busisiwe Skhosana	<b>Telephone no:</b>	012 406 1891
<b>Cellular phone no</b>	072 344 7064	<b>Fax no:</b>	N/A
<b>E-mail</b>	busisiwe.skhosana@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 Pretoria Room 121
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## DPW-03 (EC): TENDER DATA

<b>Project title:</b>	<b>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</b>
<b>Reference no:</b>	H24/017 AI

<b>Tender / Quotation no:</b>	H24/017 AI	<b>Closing date:</b>	16 SEPTEMBER 2024
<b>Closing time:</b>	11:00	<b>Validity period:</b>	12 Weeks (84 Calender 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:** H24/017 AI

<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>011 656 9473 / 083 381 4286</b>
	Fax:	<b>N/A</b>
	E-mail:	<b>amarunga@prociv.co.za</b>
<b>C.2.1 C.3.11</b>	<b>A. <u>ELIGIBILITY IN RESPECT OF CIDB REGISTRATION:</u></b>	
	<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>8 CE</b> or <b>8 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>8 CE</b> or <b>8 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: H24/017 AI

**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 x 4 (2 for Golela border post and 2 for Onverwacht border post ), and Class IV (1 x Supervisor) or higher (All required)  (v) 2 x Electrician (All required)  (vi) 2 x Air- Conditioner Technician (All required)  (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.</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 1-2 items listed above submitted = 0 point.</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>
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	<p><b>9.4 BANK RATING</b></p> <p>The bidder to provide and submit an original bank stamped rating letter or certified copy 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>		
	<b>Minimum functionality score to qualify for further evaluation:</b>	<b>65</b>

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**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 (NCPDPSA).</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>

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**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 in 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: H24/017 A1

## **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;

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	<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

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<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.

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<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.

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)**

## **PART T2 RETURNABLE DOCUMENTS**



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

<b>Project title:</b>	<b>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</b>		
<b>Tender / Quotation no:</b>	H24/017 AI	<b>Reference no:</b>	H24/017 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 applicabile)	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

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**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

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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

Project title:	<b>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</b>		
Tender / Quotation no:	H24/017 AI	Reference no:	H24/017 AI

### OFFER

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

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A 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.

\*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"

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**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:.....	OR	Natural Person or Partnership: ..... ..... Whose Identity Number(s) is/are: ..... Whose Income Tax Reference Number is/are: ..... .. CSD supplier number:.....
--	----	--

<b>AND WHO IS</b> (if applicable):	
Trading under the name and style of: .....	
<b>AND WHO IS:</b>	
Represented herein, and who is duly authorised to do so, by:  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)

\*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"

**Tender / Quotation no: H24/017 AI**

**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.

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: .....

\*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"

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**Tender / Quotation no: H24/017 AI**

## 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

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

### WITNESSED BY:

Name of witness	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"

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**Tender / Quotation no: H24/017 AI**

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

**Note:**

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

**ENTERPRISE STAMP**

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

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

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_
6. \_\_\_\_\_  
\_\_\_\_\_
7. \_\_\_\_\_  
\_\_\_\_\_
8. \_\_\_\_\_  
\_\_\_\_\_

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

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

### RESOLVED that:

#### 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
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*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)	

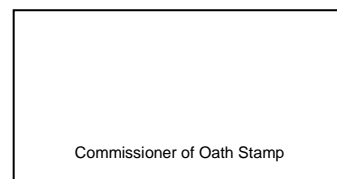
- 5) I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.

- 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>GOLELA AND ONVERWACHT 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>H24/017 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".

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**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".

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**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: **H24/017 AI**

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: **H24/017 AI**

### 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**

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**Project** **GOLELA AND ONVERWACHT 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>  .....
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## DPW-09 (EC): PARTICULARS OF TENDERER'S PROJECTS

Project title:	<b><i>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</i></b>		
Tender / quotation no:	H24/017 AI	Closing date:	16 SEPTEMBER 2024
Advertising date:	23 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>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</i></b>		
<b>Tender no:</b>	<i>H24/017 AI</i>	<b>Reference no:</b>	<i>H24/017 AI</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>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</i></b>		
<b>Tender / Quotation no:</b>	<i>H24/017 AI</i>	<b>Reference no:</b>	<i>H24/017 AI</i>
<b>Closing date:</b>	16 SEPTEMBER 2024		

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>	<b>GOLELA AND ONVERWACHT 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>	H24/017 AI	<b>Reference no:</b>	H24/017 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)*

	<b>Date</b>	<b>Title or Details</b>
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		

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

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.

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

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

<b>Project title:</b>	GOLELA AND ONVERWACHT 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>	H24/017 AI	<b>Reference no:</b>	H24/017 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>	GOLELA AND ONVERWACHT 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>	H24/017 AI	<b>Reference no:</b>	H24/017 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 : \_\_\_\_\_

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)**

## **THE CONTRACT**

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

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

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

<b>Project title:</b>	<b>GOLELA AND ONVERWACHT 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>	H24/017 AI	<b>WCS no:</b>	056393	<b>Reference no:</b> H24/017 AI

	<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>
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	<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 [ ] brackets</p>
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### 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
GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)	

**Tender / Quotation no: H24/017 AI**

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

Erf / stand number	
Site address	Golela and Onverwacht Land Ports of Entry
Township / Suburb	
City / Town	Pongola
Province	Kwa-Zulu Natal
Local authority	Pongola District
GPS Coordinates	Golela: -27.31898457777101, 31.891372472355872 Onverwacht: -27.317328342257035, 31.643922159643644

## **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	<a href="mailto:Goodwill.lukhele@dpw.gov.za">Goodwill.lukhele@dpw.gov.za</a>	Telephone	012 406 1124
Postal address	PRIVATE BAG X65 PRETORIA 0001		
Physical address	256 Madiba Street Pretoria Central Pretorial 0001		

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

Name	Goodwill Lukhele	Telephone number	012 406 1124
E-mail	<a href="mailto:Goodwill.lukhele@dpw.gov.za">Goodwill.lukhele@dpw.gov.za</a>	Mobile number	082 957 4451
Postal address	PRIVATE BAG X65 PRETORIA 0001		
Physical address	256 Madiba Street Pretoria Central Pretorial 0001		

**Tender / Quotation no: H24/017 AI**

<b>A 4.0</b>	<b>Employers Agent/s</b>		Prociv-KNA JV
<b>A 4.1</b>	<b>Principal Agent [1.1.1.16]</b>	<b>Discipline</b>	Civil Engineering

Name	Prociv-KNA JV		
Legal entity of above	Prociv-KNA JV	Contact person	Mr. Antony Marunga
Practice number	20120172	Telephone number	011 656 9473
Country	South Africa	Mobile number	083 381 4286
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>	Electrical Engineering
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Name	Prociv-KNA JV		
Legal entity of above	Prociv-KNA JV	Contact person	Mr. Albert Mikosi
Practice number	860118	Telephone number	011 433 0113
Country	South Africa	Mobile number	082 829 4695
E-mail	mikosin@mikosi.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 4.3</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	Mechanical Engineering
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Name	Prociv-KNA JV		
Legal entity of above	Prociv-KNA JV	Contact person	Mr. Tshifhiwa Tshivhase
Practice number	2018300207	Telephone number	011 433 0113
Country	South Africa	Mobile number	084 948 4477
E-mail	tshifhiwaraymond@gmail.com		
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		

# **Tender / Quotation no: H24/017 AI**

<b>A 4.4</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	Construction Health and Safety
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Name	Prociv-KNA JV		
Legal entity of above	Prociv-KNA JV	Contact person	Mr. Ngoni Gombami
Practice number	PR CHSA/123/2022	Telephone number	011 941 8106
Country	South Africa	Mobile number	071 327 5266
E-mail	ngoni@csmsa.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 4.5</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
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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>	
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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: H24/017 AI**

<b>A 4.7</b>	<b>Agent [1.1.1.16]</b>	<b>Discipline</b>	
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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>	
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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>	
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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: H24/017 AI**

**B CONTRACT INFORMATION**

**B 1.0 Definitions [1.1.1.2]**

Bills of quantities: System / Method of measurement	SANS 1200
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**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
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**B 3.0 Offer and acceptance [1.1.1.20]**

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

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**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: H24/017 AI

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: H24/017 AI

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: H24/017 AI

<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

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### 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: H24/017 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	

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**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: H24/017 AI

**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]

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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.

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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>

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	<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>

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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

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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.



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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>PONGOLA, KZN</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>PONGOLA, KZN</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>

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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>



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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.

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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>

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	<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>

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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: H24/017 AI**

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: H24/017 AI**

## **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: H24/017 AI

## 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: H24/017 AI**

## **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: H24/017 AI**

## 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: **H24/017 AI**, for the **GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A 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: H24/017 AI**

- (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: H24/017 AI

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)

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: **H24/017 AI**, for the **GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A 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**.

2. 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: **H24/017 AI**

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: **H24/017 AI**

**By and on behalf of:**

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**(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: \_\_\_\_\_

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**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)**

**PART C2 PRICING DATA**



GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## **C2.1 PRICING INSTRUCTIONS**

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

Project title:	<b>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</b>		
Tender / Quotation no:	H24/017 AI	Reference no:	H24/017 AI

### 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 must 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 of 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  $0,50\% \times R65\,700\,000 = R328\,500$  (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 *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.

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.

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

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

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## SCHEDULE OF QUANTITIES

**NB: TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK**

	TENDER
<b><u>CALCULATION OF TENDER SUMMARY</u></b>	
TOTAL : CIVIL REPAIR WORK	R _____
TOTAL : ELECTRICAL REPAIR WORK	R _____
TOTAL : MECHANICAL REPAIR WORK	R _____
TOTAL : CIVIL MAINTENANCE WORK	R _____
TOTAL : ELECTRICAL MAINTENANCE WORK	R _____
TOTAL : MECHANICAL MAINTENANCE WORK	R _____

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**TOTAL OF SCHEDULE OF QUANTITIES**

R

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 15 % VALUE-ADDED TAX (VAT)

R

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**TENDER SUM CARRIED TO THE TENDER FORM**

R

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

**SUMMARY OF BILL OF QUANTITIES: CIVIL REPAIR WORK**

	<b>CIVIL REPAIR WORK</b>
SCHEDULE NO 1: PRELIMINARY & GENERAL	R _____
SCHEDULE NO 2: CONTRACT PARTICIPATION GOAL	R _____
SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING	R _____
SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES	R _____
SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING	R _____
SCHEDULE NO 3.4: INSTALLATION C4: BULK WATER SUPPLY SYSTEM AND EXTERNAL	R _____
SCHEDULE NO 3.5: INSTALLATION C5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS	R _____
SCHEDULE NO 3.6: INSTALLATION C6: ROADS AND STORM WATER DRAINAGE	R _____

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**TOTAL OF BILL OF QUANTITIES - CIVIL REPAIR WORK  
CARRIED TO CALCULATION OF TENDER SUM**

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R .....

SIGNED ON BEHALF OF TENDERER: .....

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 1: PRELIMINARY AND GENERAL****CIVIL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>SABS</b>	<b>100,00</b>	<b><u>GENERAL</u></b>				
	<b>100,01</b>	<b>Scheduled fixed-charge and value-related items:</b>				
<b>PSA 8.3.1</b>		.01 Fixed preliminary and general charges (Release 80% after site establishment and 20% after contract completion)	Sum	1		
<b>PS 3</b>		.02 Details of contract	Sum	1		
	<b>100,02</b>	<b>Scheduled time-related items:</b>				
<b>PSA 8.4.1</b>		.01 Golela Port of Entry	No	36		
<b>PSA 8.4.1</b>		.02 Onverwacht Port of Entry	No	36		
<b>PSA 8.8</b>	<b>101,00</b>	<b><u>TEMPORARY WORKS</u></b>				
<b>PSA 8.8.4.1</b>	<b>101,01</b>	<b>Location and protection of existing services:</b>				
		<b>Provision of detecting devices for:</b>				
		.01 Water and sewer pipes	Sum	2		
		.02 Electrical and other cables	Sum	2		
<b>PSA 8.8.4.2</b>	<b>101,02</b>	.03 Hand excavation necessary for locating and exposing existing services in all material:				
		.0 In roadways	m <sup>3</sup>	45		
		.0 In all other areas	m <sup>3</sup>	45		
<b>PSA 8.9</b>	<b>101,03</b>	<b>Call centre:</b>				
		.01 Call centre for breakdown calls logged	PC Sum	1	R 200 000,00	R 200 000,00
		.02 Charge required by Contractor on subitem .01 above	%	R 200 000,00		
Carried forward						

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SB.02	101,03	<b>Survey, compile and supply complete site plans of Golela and Onverwacht Land Ports of Entry Operational and Residential Areas which shall include:</b>				
		.01 Existing structures, facilities, roads, paving	Sum	2		
		.02 Storm water drainage system	Sum	2		
		.03 Electrical infrastructure	Sum	2		
		.04 Fire fighting equipment and infrastructure	Sum	2		
		.05 Sewer network and bulk wastewater infrastructure	Sum	2		
		.06 Bulk water supply and water distribution	Sum	2		
		.07 Telephone lines	Sum	2		
PSA 8.14	102,00	<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		
PSAB 5.8		.03 Survey assistant and material	PC Sum	1	R 396 000,00	R 396 000,00
		.04 Charge required by Contractor on sub item 03 above	%	R 396 000,00		
SI.01	103,00	<b><u>OCCUPATIONAL HEALTH AND SAFETY ACT</u></b>				
		.01 Compliance to OHS Act Requirements and Construction Regulations 2014	Month	36		
	104,00	<b><u>AWARENESS</u></b>				
		It is required of the Contractor to thoroughly study the <b><i>Additional Specification SH: HIV / AIDS Requirements (PW 1544)</i></b> 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.				
Carried forward						

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SH 07	104,00	.01 Awareness Champion  Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services.	Sum	36		
SH 04.01		.02 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-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures.	No	3		
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	3		
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	105,00	<b>PEST CONTROL</b>				
PSA 8.6	100,09	.01 Preventative pest control	PC Sum	1	R 150 000,00	R 150 000,00
		.02 Charge required by Contractor on sub item .01 above	%	R 150 000,00		
PSA 8,6		<b>BMA CONTINGENCY GOLELA</b>				
		1 Provide contingency measures during	PC Sum	1	R 650 000,00	R 650 000,00
		.02 Charge required by Contractor on sub item .01 above	%	R 650 000,00		
Carried forward						



## SCHEDULE NO 1: PRELIMINARY AND GENERAL

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SN 10.03	106,00	<b>BMA CONTINGENCY ONVERWACHT</b>				
		1 Provide contingency measures during	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		
		<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				
	107,00	<b><u>TRAINING OF YOUTH WORKERS (TARGET: 35 YOUTH WORKERS)</u></b>				
		<b>Orientation, Life skills development and technical skills training:</b>				
SN10.01.01		.01 Orientation and Life Skills development training for youth workers for an average of 10 days per youth worker	PC Sum	1	R 190 000,00	R 190 000,00
SN10.01.02		.02 Technical skills training for youth workers for an average of 90 days.	PC Sum	1	R 450 000,00	R 450 000,00
		.03 Profit and attendance for administration of items .01, and .02 above	%	R 640 000,00		
SN10.01.02		.04 Penalty due to not meeting the target as in SN 10.01.02	Youth-Worker	-	-R 2 700,00	rate only
SN10.01.03		.05 First Aid Level 1 training for EPWP workers for an average 5 of days per EPWP worker (ref. SN 10.01.03)	PC Sum	1	R 55 000,00	R 55 000,00
		.06 Profit and attendance for administration of items .05 above	%	R 55 000,00		
SN 10.01.04		.07 The above formal training, shall be provided by accredited training providers	PC Sum	1	R 100 000,00	R 100 000,00
	108,00	<b><u>TRAVELLING AND ACCOMMODATION OFF-SITE TRAINING:</u></b>				
		<b><u>Life Skills Training for 30 days</u></b>				
SN10.02.01		.01 Travelling (based on 50 km/youth worker)	PC sum	1	R 190 000,00	R 190 000,00
		.02 Accommodation (based on R300/youth worker)	PC sum	1	R 75 000,00	R 75 000,00
		.03 Profit and attendance for administration of items .01 and .02 above	%	R 265 000,00		
Carried forward						

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	109,00	.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	R $\frac{1 \times (D - Do)}{100,00}$	Rand value of penalty
	110,00	<b><u>SKILLS DEVELOPMENT AND TECHNICAL TRAINING</u></b>				
SN10.02.01		.01 Travelling (based on 50km/youth worker)	PC sum	1	R 150 000,00	R 150 000,00
SN10.02.01		.02 Accommodation (based on R300/youth worker)	PC sum	1	R 55 000,00	R 55 000,00
SN10.02.01		.03 Profit and attendance for administration of item .01 and .02 above	%	R 205 000,00		
	111,00	<b><u>ALTERNATIVE WORKERS FOR THE PERIOD OF OFF-SITE TRAINING:</u></b>				
SN10.03		Skills development and technical training for youth workers for 10 days (ref. SN 10.03.02)	worker-days	175,00		
	112,00	<b><u>EMPLOYMENT OF EPWP WORKERS</u></b>  <b>Employment of Youth Workers</b>  The unit of measurement shall be the number of Youth Workers (15) at the statutory labour rates of <b>R2 425.60 per month</b> per stipend 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. Employment of EPWP workers: Plus 5% Annual Escalation (it Ministerial determination)				
SN10.03.01		Employment of EPWP workers: 15 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
SN10.03.02		.02 Profit and attendance for administration of items .01	%	R 950 000,00		
	113,00	<b><u>PROVISION OF EPWP DESIGNED OVERALLS AND HARD HATS AND SAFETY BOOTS (PPE) TO EPWP WORKERS</u></b>				
SN10.04		.01 Supply EPWP designed Overalls (PPE) to Youth Workers @ R1800 per Set of PPE	PC sum	1	R 63 000,00	R 63 000,00
SN 10.04.04		.02 Profit and attendance for administration of items .01 above	%	R 63 000,00		
Carried forward						

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SN10.04.01		.03 Supply 2 x EPWP branded overalls to each EPWP worker(ref. SN 10.04.01)	PC sum	1	R 20 000,00	R 20 000,00
SN10.04.02		.04 Supply 1 x EPWP branded hard hat to each EPWP worker (ref. SN 10.04.02)	PC sum	1	R 12 000,00	R 12 000,00
SN10.04.03		.05 Supply 1 x pair of safety boots to each EPWP worker (ref. SN 10.04.03)	PC sum	1	R 12 000,00	R 12 000,00
SN10.04.04		.06 Profit and attendance for administration of items .03, .04 and .05 above	%	R 44 000,00		
	114,00	<b><u>PROVISION OF SMALL TOOLS FOR YOUTH WORKERS</u></b>				
		.01 Supply of small tools to youth workers. Specification to be supplied by the EPWP-NYS Service Provider for the respective trades. @ R1500 p / worker (35)	PC sum	1	R 55 000,00	R 55 000,00
		.02 Profit and attendance for administration of items .01 above	%	R 55 000,00		
	115,00	<b><u>APPOINTMENT OF YOUTH TEAM LEADER/S</u></b>				
SN 10.05.01		.01 Appointment of Youth Team Leader/s for the duration of the contract 6 Months	Prov sum	1	R 25 000,00	R 25 000,00
SN 10.05.02		.02 Liaison with Service Provider	hours	150,00		
	116,00	<b><u>TESTING</u></b>				
EJ 05	116,01	<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	No	36		
PSA 8.9	116,02	<b>Additional tests:</b>				
		.01 Additional tests required by the Engineer	PC Sum	1	R 40 000,00	R 40 000,00
		.02 Attendance and profit of item .01 above	%	R 40 000,00		
Carried forward						

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
EG 07.01	117,00	<b><u>SLUDGE DISPOSAL</u></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	m <sup>3</sup>	160,00		
EG 07.01		.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	m <sup>3</sup> .km	7 000,00		
	118,00	<b><u>EMERGENCY WATER SUPPLY</u></b>				
DW 06.01		.01 Supply and delivery of potable water in batches of 1000ℓ from commercial sources on the instruction of the Engineer/Department's representatives	m <sup>3</sup>	6 000,00		
		.02 Carting of portable water in case of shortage of water on sites for Golela and Onverwacht LPOE from the nearest source	PC Sum	1	R 1 800 000,00	R 1 800 000,00
		.03 Profit and attendance on item .02	%	R 1 800 000,00		
EN 07	119,00	<b><u>WATER LEGISLATION COMPLIANCE LICENSING OF SEWAGE WORKS</u></b>				
		.01 Water Quality Management Report i.t.o Aide Memoire	PC Sum	1	R 75 000,00	R 75 000,00
		.02 Profit and attendance on item .01	%	R 75 000,00		
		.03 License application	PC Sum	1	R 75 000,00	R 75 000,00
		.04 Profit and attendance on item .03	%	R 75 000,00		
		.05 EIA pre-application consultation and scoping report	PC Sum	1	R 75 000,00	R 75 000,00
		.06 Profit and attendance on item .05	%	R 75 000,00		
		.07 EIA authorisation and ROD	PC Sum	1	R 75 000,00	R 75 000,00
		.08 Profit and attendance on item .07	%	R 75 000,00		
	120,00	<b><u>RECORD KEEPING</u></b>				
SA.07	120,01	<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 Golela Port of Entry	Month	36		
		.02 Onverwacht Port of Entry	Month	36		
		Repair of Swimming pool including pumping and connection systems	Sum	1		
	<b>TOTAL</b>	<b>SCHEDULE 1 : GENERAL - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 2: CONTRACT PARTICIPATION GOALS (CPG) AND CIBD BUILD PROGRAMME****CIVIL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<b><u>CONTRACT PARTICIPATION GOALS (CPG)</u></b>				
		PROVISIONAL SUMS				
		As per the Manual for Consultant Quantity				
		Provisional sums and prime cost items				
		Only with the prior approval of the department project manager and after consultation with the department quantity surveyor, may a provisional 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 separate section in the bills of quantities				
		Contingency amount				
		No contingency amount may be included in the bills of quantities				
		Budgetary allowances				
		No budgetary allowances may be included in the bills of quantities. All work must be measured out in detail. Work for which limited information or details are available must be measured provisionally				
		THE FOLLOWING ARE SOME PROVISIONAL SUMS THAT MAY BE ALLOWED IN THE BILLS OF QUANTITIES TAKING INTO ACCOUNT THE ABOVE NOTES				
		<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	1,0	R 185 000,00	R 185 000,00
	2	.01 Profit	%	R 185 000,00		
	3	.02 Attendance	%	R 185 000,00		
		<b>PROCUREMENT OF CONSTRUCTION MATERIAL FOR THE CONTRACT PARTICIPATION GOAL</b>				
	1	Provide the sum of R 4 000 000,00 (Four Million Rands) for the procurement of construction material		1,0	R 4 000 000,00	R 4 000 000,00
	2	.01 Profit	%	R 4 000 000,00		
	3	.02 Attendance	%	R 4 000 000,00		
Carried forward						

## SCHEDULE NO 2: CONTRACT PARTICIPATION GOALS (CPG) AND CIBD BUILD PROGRAMME

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		<b>CLERK OF WORKS</b>				
	1	Provide the sum of R120 000,00 (One hundred and Fifty thousand Rands) for the clerk of works for the construction period of 12 months for each port entry	PC Sum	1,0	R 120 000,00	R 120 000,00
	2	.01 Profit	%	R 120 000,00		
	3	.02 Attendance	%	R 120 000,00		
		<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.				
	1	<b>MINIMUM TARGETED LOCAL BUILDING MATERIAL MAUFACTURERS</b>				
		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				
	1,1	C3.7.2 Material of the value of R 4 000 000.00 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.	PC Sum			
	1,2	Allowance for monitoring and monthly reporting on materials purchased from Local Building Material Manufacturers by main contractor and subcontractors.	%	R 4 000 000,00		
	1,3	Allowance for profit, all inclusive of associated costs to the contractor for implementation.	%	R 4 000 000,00		
	1,4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 4 000 000,00		
	2	<b>MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS</b>				
		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				
	2,1	C3.7.2. Material to the value of R 4 000 000,00 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.				
Carried forward						

## SCHEDULE NO 2: CONTRACT PARTICIPATION GOALS (CPG) AND CIBD BUILD PROGRAMME

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	2,2	Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors.	%	R 4 000 000,00		
	2,3	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 4 000 000,00		
	2,4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 4 000 000,00		
	<b>3</b>	<b>MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT</b>				
	3,1	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 1 200 000,00	R 1 200 000,00
	3,2	Allowance for monitoring and monthly reporting on training provided by main contractor and subcontractors.	%	R 1 200 000,00		
	3,3	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 1 200 000,00		
	3,4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 1 200 000,00		
	<b>4</b>	<b>MINIMUM TARGETED ENTERPRISE DEVELOPMENT</b>				
	4,1	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 300 000,00	R 300 000,00
	4,2	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 1 440 000,00	R 1 440 000,00
Carried forward						

## SCHEDULE NO 2: CONTRACT PARTICIPATION GOALS (CPG) AND CIBD BUILD PROGRAMME

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	4,3	Allowance for monitoring and monthly reporting on SMME subcontracting by main contractor and subcontractors including training provided.	%	R 1 740 000,00		
	4,4	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 1 740 000,00		
	4,5	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 1 740 000,00		
	<b>5</b>	<b>MINIMUM TARGETED SKILLS DEVELOPMENT GOALS</b>				
		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.				
	5,1	<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 600 000,00	R 600 000,00
	5,2	Allowance for monitoring and monthly reporting on skills development by main contractor and subcontractors.	%	R 600 000,00		
	5,3	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 600 000,00		
	5,4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 600 000,00		
	<b>6</b>	<b>LABOUR INTENSIVE PARTICIPATION GOAL</b>				
		Labour Intensive Participation Goal - Labour intensive works 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.				
		Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors				
	6,1	Allowance for monitoring and monthly reporting on skills development by main contractor and subcontractors.	%	R 2 000 000,00		
	6,2	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 2 000 000,00		
Carried forward						





## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING****CIVIL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	200,00	<b><u>STRUCTURAL AND BUILDING ROOFS: CLADDING AND SHEETING</u></b>				
BA.01	200,01	<b>Supply and install cladding and sheeting</b>				
		.01 0.6mm Thick galvanised IBR or equivalent approved sheeting with CHROMADEK silicone polyester finish on one side and CHROMADEK finish on the other side in:				
		.01 Roof covering with pitches exceeding 15°, fixed to timber or steel purlins	m <sup>2</sup>	400		
BA.03	200,02	<b>Carefully remove existing cladding and</b>				
		.01 Existing galvanised sheet metal roof covering removed from timber or steal purlins or grits	m <sup>2</sup>	450		
BA.03.02.03	201,00	<b><u>Carefully remove and store existing cladding and sheeting, removed from timber / steel purlin or girt</u></b>				
		.01 Carefully remove existing metal roof covering, removed from timber / steel purlin or girt and stockpile	m <sup>2</sup>	45		
		.02 Existing galvanised sheet metal roof covering or side cladding from stockpile to be re erected to existing timber or steel purlins or girts - pitch exceeding 15°	m <sup>2</sup>	45		
BA.05	201,01	<b>Supply and install sundry items, etc:</b>				
		.01 0.8mm Thick galvanised sheet iron flashings with CHROMADEK silicone polyester finish to one side of sundry items to IBR or concealed fixing roof sheeting complete as detailed in				
		.01 Ridge Flashing	m	195		
		.02 Side wall flashing	m	25		
		.03 Gable flashing	m	88		
		.04 Valley flashing	m	115		
		.05 100mm wide x 0.6mm gauge polyester powder coated aluminium sun louvre blades	m	15		
		.06 84mm wide x 0.6mm gauge polyester powder coated aluminium sun louvre blades	m	10		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BA.03.02.06	201,01	.02 Headwall flashing	m	30		
		.03 Hip flashing	m	30		
		.04 Apron flashing	m	30		
		.05 Eaves flashing	m	30		
		.06 Gable flashing (residential)	m	30		
		.07 Gable flashing (industrial)	m	30		
		.08 Roof overhang barge flashing	m	30		
		.09 Side roof overhang flashing (carports)	m	30		
		.10 Valley side wall flashing	m	20		
		.11 Flat back flashing	m	20		
		.12 Wall gutter	m	20		
BA.03.02.07	202,00	<b><u>Supply and install roof insulation:</u></b>				
BA.07	202,01	420 RSA heavy duty or equivalent approved heavy duty reinforced reflective aluminium foil insulation panels:				
	202,02	.01 Roofs	m <sup>2</sup>	40		
		<b><u>Supply and install rainwater goods:</u></b>				
		.01 0.8mm thick galvanised sheeting with CHROMADEK silicone polyester finish to one side in:				
		.01 125 x 100 mm self supporting box	m	65		
		.02 150 x 100 mm self supporting box	m	45		
		.03 125 x 100 mm down pipe	m	45		
		.04 150 x 100 mm down pipe	m	45		
BA.03.02.08	203,00	<b><u>Supply and install rainwater goods:</u></b>				
		Glass Fibre Insulation - roofs				
		.01 Roofs	m <sup>2</sup>	200		
		0,6 mm Thick galvanised sheeting with Chromadek silicone polyester finish to one side in:				
		.01 100 x 75 mm Down pipe, height less than 3 m	m	140		
		.02 100 x 75 mm Non-supporting box gutter	m	6		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BA.03.02.09	204,00	<b>Carefully remove existing rainwater goods:</b>				
		.01 Eaves gutters	m	350		
		.02 Down pipes	m	80		
BA.03.02.11	205,00	<b>Rehabilitation:</b>				
		.01 Roof rehabilitation of Corrigated Iron Roofs	m <sup>2</sup>	450		
		.02 Supply and install additional fixing screws, etc.	No	1000		
		.03 Prepare existing roof sheeting and repaint	m <sup>2</sup>	1500		
BA.15		.04 Prepare existing galvanised or previously painted roof sheeting and paint with a polyurethane coating system as per technical specification BA 03.02	m <sup>2</sup>	250		
		.05 Replace missing or broken roof tiles similar to existing	number	55		
BC.02.01	205,01	<b>Waterproofing of concrete roofs:</b>				
		.01 Items measured by square metre:				
		.01 Pure acrylic emulsion waterproofing paint with polyester membrane or glass-fibre tissue waterproofing sealing system	m <sup>2</sup>	100		
	206,00	<b>ROOFS: CARPENTRY AND JOINERY</b>				
BB.06.02.02	206,01	<b>Ceilings:</b>				
BB.04		<b>Remove existing joinery items by length:</b>				
		.01 Roof Timbers	m	300		
		.02 Fascia and barge boards	m	500		
BB.01	206,02	<b>Supply and install new items measured by</b>				
		.01 225 x 10 mm thick pressed fibre cement fascia, including painting, etc.	m	112		
		.02 225 x 10 mm thick pressed fibre cement barge board, including painting, etc.	m	67		
		.03 75 x 50 mm SAP purlins	m	115		
		.04 38 x 114 mm Wrought sloping SAP rafters	m	135		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BB.01	206,02	.05 38 x 114 mm Wrought sloping SAP wall	m	90		
		.06 38 x 114 mm Wrought sloping SAP timber beams	m	112		
		.07 38 x 114 mm Wrought sloping SAP timber	m	34		
BB.08	206,03	Painting of existing members in overhangs:				
		.01 Members with creosote	m	50		
		.02 Members with paint	m	222		
BB.02	206,04	Ceilings:				
		.01 Gypsum board with metal H-profile jointing				
		.01 6,4 mm ceilings	m <sup>2</sup>	450		
		.02 6,4 mm ceilings in patchwork	m <sup>2</sup>	55		
		.03 Extra over 6,4 mm ceiling for trap door with framing	number	5		
BB.02	206,05	.02 Trapdoors and duct covers:				
		.01 6,4 mm gypsum board trapdoor to new or existing ceilings	number	5		
		.02 6 mm thick x 610 mm x 640 mm mineral fibre acoustic board in duct cover	number	2		
		.02 Fibre cement with metal H-profile jointing				
		.01 6 mm ceilings	m <sup>2</sup>	400		
		.03 Gypsum cornices:				
		.01 76 mm gypsum coved cornices	m	400		
		.02 76 mm gypsum coved cornices patchwork	m	120		
		.03 100 mm gypsum coved cornices	m	120		
		.04 100 mm gypsum coved cornices in patchwork	m	100		
		BB.06.02.02	206,06	.04 Cover strips:		
.01 40 mm x 6 mm gypsum or timber cover strips in patchwork (no ceiling replacement)	m			100		
.02 45 mm x 10 mm timber cover strips in patchwork (no ceiling replacement)	m			35		
.05 Roof insulation:						
.01 54mm thick bubble fibre insulation or similar approved	m <sup>2</sup>			450		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BB.06.02.03	206,07	.05 Mineral fibre acoustic suspended ceiling tiles (masonite sound stop orbit special profile or equal approved) on and including concealed galvanised mild steel tees and strap hangers:				
		.01 600 mm x 1200 mm x 15 mm thick pre-painted tiles in patchwork	No	78		
		Joinery:				
BB.06.02.04	206,08	.01 Items measured by linear metre:				
		.01 19 mm hardwood quadrant bead cornice or finishing strip	m	45		
		.02 38 mm diameter hardwood half round ceiling cover strips	m	55		
		ALTERATION WORK				
		Alterations and repairs to existing structures:				
		.01 Remove:				
		.01 Softboard, plaster board or fibre cement ceiling boards including cornices, cover and jointing strips	m <sup>2</sup>	300		
		.02 76 mm gypsum coved cornices	m	45		
		.03 Gypsum or fibre cement ceiling boards including cover and jointing strips	m <sup>2</sup>	200		
		.04 Gypsum or fibre cement coved cornice (ceilings not removed)	m	50		
		.05 Timber cornice from walls	m	50		
		.06 Ceiling cover strips in patches (ceilings not removed)	m	50		
		.02 Re-align and refix:		0		
		.01 Soft board, plaster board or fibre cement ceiling boards including cornices, cover and jointing strips	m <sup>2</sup>	150		
		.02 76 mm gypsum coved cornices	m	45		
		.03 38 mm hardwood halfround cover strips	m	23		
		.04 19 mm hardwood half-round ceiling or panelling cover strips	m	12		
		.05 Gypsum plaster coved cornice including silicone sealant in contact joint with plastered brickwork	m	55		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SABS 8,3	207,00	<b><u>WALLS</u></b>				
	207,01	<b><u>EARTHWORKS (SMALL WORKS)</u></b>				
		<b>SCHEDULED ITEMS</b>				
		.01 Excavate for restricted foundation, footings and trenches in all materials and use for backfill or embankment or dispose	m <sup>3</sup>	60		
		.02 Break up, hack of and remove existing concrete	m <sup>3</sup>	25		
SABS 1200 G 8.4 8.4.3		.03 Carting of portable water in case of shortage of water on sites for Golela and Onverwacht LPOE from the nearest source	m <sup>3</sup>	45		
		.04 Extra over item 202.01.01 above for:				
		.01 Intermediate excavation	m <sup>3</sup>	15		
		.02 Hard rock excavation	m <sup>3</sup>	8		
	208,00	<b><u>CONCRETE (STRUCTURAL)</u></b>				
SABS 1200 G	208,01	<b>Strength concrete:</b>				
		.01 Class 20 MPa concrete in aprons including rough formwork	m <sup>3</sup>	20		
		.02 Class 25 MPa concrete in floors	m <sup>3</sup>	20		
		.03 Class 25 MPa concrete in walls	m <sup>3</sup>	10		
		.04 Class 25 MPa concrete in strip footings	m <sup>3</sup>	10		
SABS 1200 G	209,00	<b><u>FORMWORK</u></b>				
	209,01	<b>Rough form work</b>				
		.01 Wall below ground	m <sup>2</sup>	8		
	209,02	<b>Smooth form work</b>				
		.01 Smooth vertical walls inside	m <sup>2</sup>	20		
8.2.5	209,03	<b>Narrow Widths not exceeding 300mm:</b>				
		.01 Floors, etc	m	55		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SABS 1200 H	210,00	<b><u>CONCRETE REINFORCEMENT</u></b>				
	210,01	<b>High-tensile steel welded mesh and steel bars:</b>				
		.01 Ref No 193 mesh in concrete	m <sup>2</sup>	23		
		.02 Ref No 245 mesh in concrete	m <sup>2</sup>	23		
		.03 Y12 high tensile steel bars	m	33		
SABS 1200 H	211,00	<b><u>STRUCTURAL STEELWORK</u></b>				
8.3.1	211,01	<b>Supply and fabrication of steelwork:</b>				
		.01 Jointing by bolting:				
		.01 I-section columns with flat section base plates and end plates	kg	900		
		.02 I-section rafters with flat section end plates, etc.	kg	750		
		.03 Cold rolled lipped channel purlins with angle section fixing cleats	kg	500		
		.04 Angle section bracing with flat section connection plates	kg	250		
SABS 1200 H	211,02	<b>Delivery to site:</b>				
8.3.1		.01 Normal delivery:				
		.01 Columns, rafters, purlins and braces for carport structures complete as scheduled under 8.3.1 above	t	3		
SABS 1200 H	211,03	<b>Erection to site:</b>				
8.3.1		.01 Columns, rafters, purlins and braces for carport structures complete	t	3		
		.02 M16 anchor bolts 300mm deep	No	55		
8.3.6	211,04	<b>Holding-down (HD) bolts:</b>				
		.01 M16 x holding-down bolt with 150 x 320 x 10mm holded plate	No	12		
		.02 M16 x long holding-down bolt on 8mm thick cleath	No	8		
		.03 M12 x holding-down bolt with 80 x 400 x 8mm holded plate	No	8		
Carried forward						



## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.01	212,00	<b><u>BUILDING WORK</u></b>				
	212,01	<b>Doors and windows:</b>				
		.01 Steel door frames:				
		.01 1,6 mm thick pressed steel door frame for door size 813 mm x 2032 mm high suitable for 230 mm wall	No	4		
		.02 Steel roll-up door:				
		.01 1.6mm thick CHROMADEK steel roll-up door with frame and locking device for 2400 mm x 2135 mm high opening in 230 mm walls	No	6		
		.03 Steel window frames				
		.01 Steel top hung window, opening outwards, E Type NE7, with burglar bars, window size 654mm x 1022 mm wide	No	2		
		.02 Natural anodized purpose made single door - Olympia Series 725 - 2100mm x 1000mm wide with centre cross support, lockset and door handles	No	2		
		.03 Natural anodized purpose made horizontal aluminium serving window to fit on existing counters 1000mm high x 1500mm long	No	2		
		.04 Natural anodized purpose made horizontal aluminium serving window to fit on existing counters 1000mm high x 3500mm long	No	2		
		.05 Natural anodized purpose made projected out aluminium window for opening size 650 high x 1500 wide	No	2		
		.06 Natural anodized purpose made projected out aluminium window for opening size 650 high x 505 wide	No	2		
		.07 Natural anodized purpose made projected out aluminium for opening size 1815 high x 2950 wide	No	2		
		.08 Natural anodized purpose made projected out aluminium window for opening size 1270 high x 1975 wide	No	2		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.01	212,01	.09 Natural anodized purpose made projected out aluminium window for opening size 1260 high x 1490 wide	No	2		
		.10 Natural anodized purpose made projected out aluminium window for opening size 960 high x 1200 wide	No	2		
		.11 Natural anodized purpose made projected out aluminium window for opening size 960 high x 2035 wide	No	2		
		.12 Natural anodized purpose made projected out aluminium window for opening size 1260 high x 1200 wide	No	2		
BD.03	212,02	<b>Joinery:</b>				
		.01 Items measured by number:				
		.01 Solid laminated door, 40 mm thick x 813 mm wide x 2 032 mm high with meranti veneer both sides	No	15		
		.02 Semi-solid core flush panel door, 40 mm thick x 813 mm wide x 2032 mm high with meranti veneer facing both sides	No	12		
		.03 Framed, ledged and braced batten flash back hardwood door, 40 mm thick x 813 mm wide x 2 032 mm high with splayed weather board	No	6		
		.04 Solid laminated door, 40 mm thick x 1512 mm wide x 2 032 mm high with meranti veneer both sides	No	5		
		.05 Semi-solid cupboard door, 40 mm thick x 610 mm wide x 2 032 mm high with meranti veneer to both sides	No	2		
BD.04	212,03	<b>Ironmongery, steelwork, glass, wall finishings, etc.:</b>				
		.01 Items measured by number:				
		.01 Standard brass peg and stay to residential steel windows	No	22		
		.02 Standard brass sliding stay to residential steel windows	No	12		
		.03 Residential type steel window handle	No	17		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Brought forward								
BD.04	212,03	.04 Window handle for aluminium windows	No	6				
		.05 100 mm brass barrel bolt	No	11				
		.06 Cupboard pull handles with push button lock and two keys	No	14				
		.07 Cupboard pull handles	No	8				
		.08 Four lever mortice lockset with one pair handles chrome type B3081, two keys, back plates and striking plate	No	7				
		.09 Four lever mortice lockset with one pair anodized aluminium handles type B3084, two keys, back plates and striking plate	No	24				
		.10 Four lever mortice lockset with one pair anodized aluminium handles and back plate type B3085, two keys, back plates and striking plate	No	8				
		.11 Cylinder lever lockset with one pair anodized aluminium handles type B3084, two keys, back plates and striking plate	No	12				
		.12 Indicator bolt with one pair anodized aluminium handles type B3085, display, back plates and striking plate	No	5				
		.13 Facility indicator bolt for disabled facilities with one pair anodized aluminium handles type B3634, display, back plates and striking plate	No	3				
		.14 Indicator bolt for type B3632 similar to existing with display, back plates and striking plate	No	4				
		.15 Rim cylinder night latch with two keys and striking plate	No	5				
		.16 Anodized Aluminium door handles type B3081	No	6				
		.17 Anodized aluminium door handles type B3084, including back plate	No	6				
		.18 Anodized aluminium door handles type B3085, including back plate	No	16				
		.19 6mm thick mirror glass 450mm x 600mm wide	No	8				
		Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.04	212,03	.20 15 mm roller ball catch with striking plate	No	9		
		.21 Stainless steel soap dish type B2789	No	6		
		.22 Striking plate for single door	No	21		
		.23 White glazed ceramic toilet roll holder	No	8		
		.24 Stainless steel single toilet tissue holder	No	8		
		.25 Aluminium weather strips for single doors	No	12		
		.26 19 mm diameter chromium plated towel or hanging rail 1200 mm long including end brackets	No	11		
		.27 380 mm x 610 mm high bathroom cabinet with mirror, two doors, handles and one shelve	No	8		
		.28 150mm natural anodized aluminium disabled sign type B2312 or similar approved	No	3		
		.29 150mm natural anodized aluminium male sign type B2313 or similar approved	No	4		
		.30 150mm natural anodized aluminium female sign type B2314 or similar approved	No	2		
		.31 Standard arm door closer, with adjustable closing speed, adjustable hydraulic latch action, suitable for doors up 1100mm	No	4		
		.32 Four lever mortice lockset with one pair handles chrome type B2088, two keys, back plates and striking plate	No	8		
		.33 Four lever mortice lockset with one pair anodized aluminium handles type B2085, two keys, back plates and striking plate	No	6		
		.34 Four lever mortice lockset with one pair anodized aluminium handles type B2086, two keys, back plates and striking plate	No	3		
		.35 Cylinder lever lockset with one pair anodized aluminium handles type B2085, two keys, back plates and striking plate.	No	2		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.04	212,03	.36 Indicator bolt with one pair anodized aluminium handles type B2085, display, back plates and striking plate	No	2		
		.37 Facility indicator bolt for disabled person facilities with one pair anodized aluminium handles type B2581, display, back plates and striking plate	No	2		
		.38 Garage door lock, including two keys	No	6		
		.39 Standard CP door handles similar to existing	No	2		
		.40 Anodized Aluminium door handles type B2085	No	3		
		.41 Anodized Aluminium door handles type B2086	No	4		
		.42 Aluminium Sliding Shower door "PIVOT" with range of up 1050mm wide x 1800mm high	No	5		
		.43 Washing line with 2 fully galvanised posts and stays, 5m apart and 4 plastic coated washing lines complete with straining bolts concrete base, etc	No	1		
BD.04	212,04	Window blinds:				
		.01 Fabric vertical blinds as approved by the Engineer for the window frames:				
		.01 Windows size 1245mm high x 1511mm wide	No	20		
		.02 Windows size 1540mm high x 1511mm wide	No	10		
		.03 Windows size 1540mm high x 1022mm wide	No	10		
		.04 Windows size 1245mm high x 2000mm wide	No	10		
		.05 Windows size 1540mm high x 2000mm wide	No	10		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

REPAIR WORK						
PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.04	212,04	.02 35mm horizontal aluminium blinds as approved by the Engineer for window frames with:				
		.01 Window size 1000mm high x 600mm wide	No	6		
		.02 Window size 1000mm high x 900mm wide	No	5		
		.03 Window size 1000mm high x 1800mm wide	No	4		
		.04 Window size 1245mm high x 1511mm wide	No	10		
		.05 Window size 1300mm high x 1800mm wide	No	10		
		.06 Window size 1540mm high x 1511mm wide	No	4		
		.07 Window size 1800mm high x 1800mm wide	No	10		
BD.04	213,00	<u>MISCELLANEOUS</u>				
	213,01	Disabled person facilities:				
		.01 32mm diameter stainless steel grab bars for disabled facilities:				
		.01 Cistern back rail 750mm long	No	5		
		.02 Dog leg side grab rail 300 x 300 x 300mm	No	5		
BD.04	213,02	Manhole cover grid:				
		.01 Galvanised mentis retractigrid, with pressure lock, manhole cover to fit over 2100 x 2100mm manhole in 50 x 50 3 galvanised equal leg angle section frame	No	1		
BD.04	213,03	Various items:				
		.01 Items measured by linear metre:				
		.01 Silicone sealant in 6 mm contact joint between sanitary fittings and wall finishes	m	50		
		.02 Polyurethane sealant in 12 mm expansion joint in face brick walls	m	25		
		.03 Putty in patchwork to steel sashes	m	22		
		.04 Regular duty double curtain track including gliders, hangers, brackets, stopped ends, etc.	m	25		
		.05 Plastic coated washing line	m	50		
		.06 120 mm x 10 mm thick PEI Class 5 porcelain window sills as approved by Engineer	m	12		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
BD.04	213,03	.07 230mm wide pre cast lintel	m	14			
		.08 120mm wide fibre cement window sill	m	22			
		.09 External cement plaster in beam filling	m	22			
		.10 New Granite counter tops up to 600mm wide	m <sup>2</sup>	20			
		.02 Items measured by area:					
		.01 6mm thick white glazed wall tiles to existing painted or plastered walls as approved by the Engineer	m <sup>2</sup>	220			
		.02 4 mm clear float glass to steel sashes with putty	m <sup>2</sup>	4			
		.03 4 mm obscure float glass to steel sashes with putty	m <sup>2</sup>	4			
		.04 4 mm obscure glass to steel sashes with putty	m <sup>2</sup>	4			
		.05 115 mm thick brick walls	m <sup>2</sup>	10			
		.06 230 mm thick brick walls	m <sup>2</sup>	10			
		.07 230mm thick face brick walls buff satin - FBS or similar approved	m <sup>2</sup>	15			
		.08 Internal cement plaster to walls	m <sup>2</sup>	150			
		.09 External cement plaster to walls	m <sup>2</sup>	150			
		.10 6mm clear float laminated glass	m <sup>2</sup>	5			
BD.05	213,04	Alterations and repairs to existing structures:					
		.01 Repair and refix:					
		.01 Single doors	No	22			
		.02 Double doors	No	5			
		.03 Windows	No	22			
		.04 Door frames	No	14			
		.05 Aluminium sliding windows	No	15			
		.06 Tip up single garage door including servicing opening mechanisms, locks,	No	9			
		.07 Shower door including replacing broken or missing roller guide wheels	No	8			
		Carried forward					

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.05	213,04	.02 Remove, Repair and refix:				
		.01 Timber single or double door	No	22		
		.02 Peg and stay to residential steel window	No	12		
		.03 Sliding stay to residential steel window	No	13		
		.04 Window handle to residential steel window	No	22		
		.05 Cupboard locksets	No	5		
		.06 Mortice lockset with handles	No	23		
		.07 All types of locksets with handles	No	16		
		.08 All types of door handles	No	43		
		.09 Mirror glass 450mm x 600mm wide	No	5		
		.10 15 mm roller ball catch with striking plate	No	4		
		.11 Soap dish	No	8		
		.12 Striking plates	No	19		
		.13 Toilet tissue holders	No	9		
		.14 Weather strips for single doors	No	9		
		.15 Towel or hanging rail including end brackets	No	9		
		.16 Bathroom cabinets	No	7		
		.17 Standard arm door closers	No	15		
		.03 Break out/hack up/demolish and remove:				
		.01 Concrete strip footings	m <sup>3</sup>	5		
		.02 115 mm brick walls	m <sup>2</sup>	8		
		.03 230 mm brick walls	m <sup>2</sup>	7		
		.04 External plaster to walls	m <sup>2</sup>	100		
		.05 Internal plaster to walls	m <sup>2</sup>	100		
		.06 6mm thick white glazed wall tiles to existing painted or plastered walls as approved by the Engineer	m <sup>2</sup>	100		
Carried forward						



## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BD.05	213,04	.07 Damaged sections of putty in steel sashes .08 6 mm clear float laminated glass to aluminium windows  .09 4 mm clear float glass to steel sashes with putty .10 4 mm obscure glass to steel sashes with putty  .04 Take out and remove windows and doors from brickwork and prepare openings for and build in new windows, door frames, etc., including making good finishes and reveals to match existing :  .01 1,6 mm thick pressed steel door frame for door size 813 mm x 2032 mm high suitable for 230 mm wall .02 Tip up garage door with frame size 2 400mm x 2135 mm high from 230 mm wall .03 650mm x 1500mm wide steel window frame .04 650mm x 505mm wide steel window frame .05 1815mm x 2950mm wide steel window frame .06 1270mm x 1975mm wide steel window frame .07 1260mm x 1490mm wide steel window frame  BD.05 .08 960mm x 1200mm wide steel window frame .09 960mm x 2035mm wide steel window frame .10 1260mm x 1200mm wide steel window frame  .05 Clean existing surfaces:  .01 White glazed tiles to walls including cleaning and refilling/grouting of joints  .06 Repair and seal: .01 Crack in plastered wall with plaster .02 Joints in concrete walls with non-shrink grout not exceeding 20mm wide x 20mm deep .03 Concrete structures with non-shrink grout including removal and re-installation of concrete beams on concrete walls not exceeding 150mm wide x 20mm deep	m m <sup>2</sup>  m <sup>2</sup> m <sup>2</sup>   No No No No No No No No No No No No No No No  m <sup>2</sup>  m m m	22 6  4 3   10 10 1 2 3 2 2  2 2 2  450  90 78 45		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SABS	214,00	<b>FLOORS</b>				
		<b><u>EARTHWORKS (SMALL WORKS)</u></b>				
8.3.2	214,01	<b>Restricted excavation:</b>				
		.01 Excavate oil saturated soil, treat chemically to the satisfaction of parks board and discard	m <sup>3</sup>	4		
8.3.4	214,02	<b>Importing of materials from commercial sources or borrow pits:</b>				
		.01 Imported granular material compacted to 93%	m <sup>3</sup>	3		
BE.06.02.03	214,03	<b>Floor tiling and finishes, etc:</b>				
		.02 Items measured by area:				
		.01 2,5 mm thick semi-flexible vinyl floor tiles in patchwork	m <sup>2</sup>	145		
		.02 2,5 mm thick fully flexible vinyl floor sheeting (with welded joints)	m <sup>2</sup>	19		
BE.01	214,04	<b>Floor screeds:</b>				
		.01 35 mm thick granolithic screed finish	m <sup>2</sup>	45		
BE.06.02.02	214,05	<b>Joinery:</b>				
		.01 Items measured by linear metre:				
		.02 19 mm x 76 mm hardwood skirting with quadrant bead	m	60		
BE.02		.02 Items measured by area:				
		.02 75mm x 10 mm thick PEI Class 4/5 Clay floor tiles	m <sup>2</sup>	80		
		.01 19 mm x 19 mm hardwood quadrant bead	m	25		
		.03 2.5 mm thick semi-flexible vinyl stair nosing	m	25		
		.03 19 mm x 76 mm hardwood skirting with quadrant bead in patchwork	m	25		
		.04 25 mm x 100 mm hardwood skirting with quadrant bead	m	25		
		.05 25 mm x 100 mm hardwood skirting with quadrant bead in patchwork	m	25		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Brought forward								
BE.06.02.03	214,06	Floor tiling and finishes, etc:						
		.01 Items measured by linear metre:						
		.01 35 mm x 150 mm hardwood wall skirting in face brick walls	m	300				
		.02 75 mm x 10 mm thick PEI Class 4/5 Clay/Porcelain floor tiles as approved by Engineer	m <sup>2</sup>	50				
		.02 Items measured by area:						
		.01 75 mm x 10 mm thick PEI Class 4/5 Clay/Porcelain floor tiles as approved by Engineer	m <sup>2</sup>	45				
		.02 375 micron damp proofing under solid floors	m <sup>2</sup>	110				
		.03 250 micron damp proofing under solid floors	m <sup>2</sup>	85				
		.04 300 mm x 300 mm x 8 mm thick, acid resistant, PEI Class 4, Ceramic floor tiles as approved by Engineer	m <sup>2</sup>	265				
		.05 500 mm x 500 mm x 10 mm thick, PEI Class 4/5 Porcelain, floor tiles as approved by Engineer	m <sup>2</sup>	250				
		.06 500mm x 500mm diagonal tiles manufactured from 100% stain proof miracle fibre (polypropylene)	m <sup>2</sup>	200				
		.07 405 mm x 405 mm thick PEI Class 4/5 Clay floor tiles as approved by Engineer	m <sup>2</sup>	130				
		.08 40mm x 40mm x 6mm thick PEI Class 4/5 Mosaic floor tiles as approved by Engineer	m <sup>2</sup>	60				
		.09 Pavelite or equal approved skim coat to receive vinyl floor titles	m <sup>2</sup>	250				
		.10 Hardwood skirting with quadrant bead	m	35				
		.11 Carpets - residential or similar approved by Engineer	m <sup>2</sup>	200				
		.03 Carefully remove, stockpile on site for re-use						
		.01 Hardwood skirting with quadrant bead	m <sup>2</sup>	25				
		BE.06.02.04		.04 Cleaning and sealing of floor surfaces:				
				.01 Vinyl floor tiles as per technical specification BE 06.01.01 for cleaning and sealing of vinyl floor tiles	m <sup>2</sup>	380		
Carried forward								

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>214,06</b>	.05 Break up and remove:				
		.01 Concrete surface beds (up to 200 mm thick)	m <sup>3</sup>	4		
		.02 Small sections of concrete surface beds (up to 200 mm thick)	m <sup>3</sup>	3		
		.06 Break out/hack up and remove:				
		.01 Concrete apron slabs	m <sup>3</sup>	35		
		.02 Cement plaster screed on floors	m <sup>2</sup>	12		
		.03 Cement plaster screed on floors in patches	m <sup>2</sup>	12		
		.04 Granolithic screed on floors in patches	m <sup>2</sup>	15		
		.05 Terrazzo tiles to floors in patches	m <sup>2</sup>	25		
		.07 Re-align and refix:				
		.01 Hardwood skirting with quadrant bead	m	25		
		.02 230 mm x 230 mm x 22 mm terrazzo nosing tiles on treads in patches	m	50		
		.08 Clean existing surfaces:				
		.01 Terrazzo tiles to floors including refilling of joints	m <sup>2</sup>	60		
		.02 Cracks in concrete surface beds	m	15		
		.09 Clean and remove stains and marks:				
		.01 Vinyl asbestos floor tiles using an approved solvent cleaner and apply two coats wax polish	m <sup>2</sup>	80		
		.02 Unglazed ceramic floor tiles using an approved chemical detergent and hydrochloric acid	m <sup>2</sup>	80		
		.03 Terrazzo floor tiles using an approved chemical detergent	m <sup>2</sup>	80		
		.10 Refix, sand down to smooth and even surface				
		.01 Wood block flooring	m <sup>2</sup>	35		
		.11 Remove sticky adhesive and clean concrete				
		.01 Garage floors, etc	m <sup>2</sup>	85		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
8.4.4(a)	214.06	.12 Rake out joints, clean and prepare to receive joint filler:				
		.01 15 mm wide sealed expansion joint in concrete surface bed	m	25		
		.02 Cut existing reinforced concrete slab on both sides of existing expansion joint with an angle grinder to a width of 37 mm and a depth of 20 mm, remove concrete and joint material up to 20 mm deep, clean and prepare to receive new joint system	m	30		
		.13 Carefully lift, clean and temporary store for later re-use:				
		.01 225 mm x 225 mm x 25 mm thick terrazzo floor tiles in patches	m <sup>2</sup>	45		
		.14 Re-lay or re-install:				
		.01 225 mm x 225 mm x 25 mm thick terrazzo floor tiles in patchwork including new grouting	m <sup>2</sup>	45		
		.02 Hardwood quadrant bead	m	25		
	215,00	<b><u>SCHEDULED CONCRETE ITEMS:</u></b>				
	215,01	<b>Wood-float finishes to:</b>				
		.01 Top of aprons and screeds to slight falls	m <sup>2</sup>	45		
		.02 Tops of Grano	m <sup>2</sup>	45		
	215,02	<b>Joints:</b>				
		.01 Construction joints with formwork only:				
		.01 100 mm high in apron slabs	m	45		
BH.01 BH.02	216,00	<b><u>FITTINGS</u></b>				
	216,01	<b>Steelwork and joinery:</b>				
		.01 Items measured by number:				
		.01 Cupboard ironmongery 0.8mm thick steel baked enamel with 32mm postform composite laminate tops SANS approved:				
		.01 Hinge for kitchen cupboard door	No	24		
		.02 Kitchen cupboard pull handles	No	24		
		.03 Base double bowl sink and unit size 1800 mm x 533 mm x 865 mm high with three doors, and one shelf	No	6		
		.04 Base unit size 1800 mm x 533 mm x 865 mm high with three doors, four drawers and one shelf	No	5		
		.05 Wall unit size 1500 mm x 533 mm x 865 mm high with three doors, and one shelf	No	7		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BH.06.02.01	216,01	<b>Joinery:</b>  .01 Items measured by number:  .01 Cupboard ironmongery: .01 15 mm roller catch for kitchen cupboard .02 Wall unit size 1370 mm x 300 mm x 580 mm high with three doors and one shelf .03 Base unit size 1 600 mm x 533 mm x 865 mm high with three doors, two drawers and one shelf inclusive of a single zink .04 Base unit size 1 370 mm x 533 mm x 865 mm high with two doors, two drawers and one shelf .05 Base unit size 1 370 mm x 533 mm x 865 mm high with three doors, three drawers and one shelf inclusive of a single zink .02 Repair safety screens in front of windows .03 Replace sliding security gates size 1,000 x 2,280, inclusive of all rails .04 Replace tip-up industrial type garage door, size 3,000 x 2,700 mm .02 Items measured by linear metre: .01 32 mm chipboard with postform composite laminate finish on one side and profiled edges where so described: .01 Work top 600 mm wide with profiled front edge and fitted on top of kitchen cupboard floor unit .02 32 mm hardwood meranti shelves and profiled edges where so described: .01 Work top 500 mm wide with profiled front edge and fitted on top of kitchen cupboard floor unit .02 32 mm x 1,2 mm "Formica" veneered edge strips	No	2		
			No	2		
			No	2		
			No	2		
			No	3		
			No	3		
			No	1		
			No	2		
			m	25		
			m	25		
			m	24		
BH.03	216,02	<b>Alterations and repairs to existing fittings:</b>  .01 Service, repair and refix kitchen cupboards as per Project Specification BH 03.01.02: .01 Kitchen cupboard door .02 Kitchen cupboard drawer including sliders .02 Removal of existing steel or wooden kitchen 01 Sink, base or wall unit up to 2000mm long .02 Existing counter tops up to 600mm wide	No	12		
			No	8		
			No	6		
			m	8		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BJ.01	217,00	<u>PAINT WORK</u>				
	217,01	Paint to new unpainted surfaces:				
		.01 Steel surfaces:				
		.01 High gloss enamel paint:				
		.01 I-section columns and rafters	m²	64		
		.02 Lipped channel purlins	m²	48		
		.03 Angle section bracing	m²	15		
		.02 Super universal high gloss enamel paint:				
		.01 Door frames	m²	35		
		.02 Doors and frames	m²	150		
		.03 Garage doors and frames	m²	300		
		.04 Residential cottage type glazed windows	m²	80		
		.02 Plaster or concrete surfaces:				
		.01 Alkali resistant solvent based (modified alkyd) stoep paint:				
		.01 Thresholds and window sills	m²	25		
		.02 Interior quality acrylic emulsion paint with smooth sheen appeal:				
		.01 Walls	m²	2800		
		.02 Walls in patchwork	m²	90		
		.02 Ceilings in patchwork	m²	700		
		.03 Protective and decorative solvent based polyurethane alkyd semi-gloss non-drip enamel paint:				
		.01 Walls in patchwork	m²	450		
		.04 Exterior quality pure acrylic emulsion paint with Teflon:				
		.01 Walls and piers	m²	90		
		.03 Fibre cement surfaces:				
		.01 Interior quality super acrylic copolymer PVA paint:				
		.01 Ceilings and cornices	m²	900		
	.02 Ceilings in patchwork	m²	450			
	.03 Wall panelling in patchwork	m²	80			
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BJ.06.02.01	217,01	.02 Exterior quality super acrylic copolymer PVA paint:				
		.01 Ceilings and cornices	m <sup>2</sup>	450		
		.02 Eaves covering	m <sup>2</sup>	350		
		.03 Vertical eaves closures	m <sup>2</sup>	250		
		.03 Protective and decorative solvent based polyurethane alkyd semi- gloss non-drip enamel paint:				
		.01 Ceilings and cornices	m <sup>2</sup>	350		
		.02 Window sills	m <sup>2</sup>	50		
		.04 Softboard surfaces:				
		.01 Interior quality super acrylic copolymer PVA paint:				
		.01 Ceilings and cornices	m <sup>2</sup>	45		
		.02 Ceilings in patchwork	m <sup>2</sup>	45		
		.05 Galvanised steel surfaces:				
		.01 Super universal high gloss enamel paint:				
		.01 Gutters in patchwork	m <sup>2</sup>	120		
		.02 Rainwater downpipes in patchwork	m <sup>2</sup>	80		
		.06 Wood surfaces:				
		.01 Primer and undercoat:				
		.01 Wooden structure for gauzed covered stoep	m <sup>2</sup>	25		
		.02 Protective and decorative solvent based polyurethane alkyd semi- gloss non-drip enamel paint:				
		.01 Doors	m <sup>2</sup>	320		
		.02 Cupboard doors	m <sup>2</sup>	150		
		.03 Pelmet	m <sup>2</sup>	80		
		.04 Rails, etc exceeding 150 but not exceeding 300 mm girth	m	25		
		.03 Water resistant polyurethane clear matt varnish:				
		.01 Doors	m <sup>2</sup>	300		
		.02 Skirting & Quad beads	m <sup>2</sup>	350		
Carried forward						



## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BJ.02	217,01	.04 .03 Cupboard doors	m <sup>2</sup>	35		
		.04 Cupboards, counters, shelving, etc	m <sup>2</sup>	35		
		.05 Pelnets	m <sup>2</sup>	15		
		.05 Ultra violet light resistant exterior solvent based varnish:				
		.01 Doors	m <sup>2</sup>	45		
	217,02	<b>Paint to previously painted surfaces:</b>				
		.01 Concrete surfaces				
		.01 Alkali resistant solvent based (modified alkyd) stoep paint:				
		.01 Floors	m <sup>2</sup>	110		
		.02 Window sills, etc	m <sup>2</sup>	23		
		.03 Skirting not exceeding 150 mm girth	m <sup>2</sup>	12		
		.02 Plaster surfaces:				
		.01 Interior quality pure acrylic emulsion paint with smooth sheen appeal:				
		.01 Walls	m <sup>2</sup>	800		
		.02 Exterior quality pure acrylic emulsion paint with teflon:				
		.01 Walls and piers	m <sup>2</sup>	455		
		.02 Beams and lintels	m <sup>2</sup>	27		
		.03 Protective and decorative solvent based polyurethane alkyd semi-gloss non-drip enamel paint:				
		.01 Walls	m <sup>2</sup>	450		
		.02 Window cills	m <sup>2</sup>	65		
		.03 Plastered concrete shelves	m <sup>2</sup>	29		
		.04 Ceilings	m <sup>2</sup>	645		
		.05 Granolithic skirting not exceeding 150 mm high	m	15		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BJ.02	217,02	.03 Quarry tile surfaces:				
		.01 Alkali resistant solvent based (modified alkyd) stoep paint:				
		.01 Window sills	m <sup>2</sup>	12		
		.04 Fibre cement surfaces:				
		.01 Interior quality acrylic emulsion paint with smooth sheen appeal:				
		.01 Window sills	m <sup>2</sup>	12		
		.01 Ceilings and cornices	m <sup>2</sup>	250		
		.02 Exterior quality super acrylic copolymer PVA paint:				
		.01 Ceilings and cornices	m <sup>2</sup>	122		
		.02 Fascias and barge boards	m <sup>2</sup>	12		
		.03 Window sills	m <sup>2</sup>	18		
		.05 Soft board surfaces:				
		.01 Interior quality super acrylic copolymer PVA paint:				
		.01 Ceilings and cornices	m <sup>2</sup>	145		
		.02 Protective and decorative solvent based polyurethane alkyd semi- gloss non-drip enamel paint:				
		.01 Ceilings and cornices	m <sup>2</sup>	45		
		.06 Galvanised steel surfaces:				
		.01 Super universal high gloss enamel paint:				
		.01 Gutters	m <sup>2</sup>	23		
		.02 Rainwater downpipes	m <sup>2</sup>	6		
		.07 Steel surfaces:				
		.01 Protective and decorative solvent based polyurethane alkyd semi- gloss non-drip enamel paint:				
		.01 Residential type glazed windows	m <sup>2</sup>	22		
		.02 Window burglar proofing or mentis expanded metal grid to steel frame in burglar proofing	m <sup>2</sup>	15		
Carried forward						

## SCHEDULE NO 3.1: INSTALLATION C1: STRUCTURAL AND BUILDING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
BJ.02	217,02	.07 .03 Doors	m <sup>2</sup>	33		
		.04 Door frames	m <sup>2</sup>	12		
		.05 Security gates	m <sup>2</sup>	12		
		.06 Rails, posts, pipes, steel structures etc. not exceeding 50 mm diameter	m	23		
		.07 Rails, posts, pipes, steel structures etc. exceeding 50 mm dia. not exceeding 110 mm dia.	m	23		
		.08 Steel structures	m <sup>2</sup>	8		
		.09 Gutters	m <sup>2</sup>	24		
		.10 Down pipes	m <sup>2</sup>	24		
		.02 Aluminium paint:				
		.01 Washing line posts not exceeding 100 mm dia.	m	24		
BJ.02		.02 Welded mesh in security panels	m	21		
		.03 Alkali resistant solvent based (modified alkyd) stoep paint:				
BB.08	217,03	.01 Manhole covers	m <sup>2</sup>	9		
		<b>Painting of existing members in overhangs:</b>				
BC.03.02.05	218,00	.01 Members with creosote	m	140		
		.02 Members with paint	m	205		
BC.03.02.05	218,01	<b><u>Repairs to damaged masonry, plastering and surface finishes:</u></b>				
		<b>Items measured by number:</b>				
BC.03.02.05	218,01	.01 Making good to end of timber purlins, - rafters, etc. irrespective of size and profile, protruding through brick walls, etc.	No	4		
		<b>Items measured by linear metre:</b>				
BC.03.02.05	218,01	.02 Making good where timber purlins or - rafters, irrespective of size are removed or replaced, including closing ends of troughs for sheet metal roof sheeting, complete	m	45		
		.01 Painting to top cords of timber trusses in roof voids	m	122		
BB.09	218,02	<b>Miscellaneous items</b>				
		.01 Items measured by linear metre:				
BB.09	218,02	.01 Pure acrylic emulsion waterproofing paint with polyester membrane or glass-fibre tissue waterproofing sealing system	m <sup>2</sup>	15		
	TOTAL	SCHEDULE 3.1 : INSTALLATION C1: STRUCTURAL AND BUILDING - CARRIED TO SUMMARY:				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	300,00	<b><u>PLUMBING AND DRAINAGE GENERAL</u></b>				
PAA.06.01	300,01	Inspection and report on existing installations:				
		.01 Domestic water installation	item	1		
		.02 Domestic geyser installation	item	1		
PAA 05.01.02	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 Water closets (WC):				
		.01 Vitreous china WC pan (cistern type)	No	8		
		.02 Vitreous china WC cistern	No	12		
		.03 Flushing mechanisms	No	15		
		.04 Tailpipe connections to WC, including shut of valve	No	16		
		.05 Pan connector (100mm dia)	No	15		
		.06 Toilet seat and cover	No	26		
		.07 Toilet flush valve	No	26		
		.02 Wash hand basins:				
		.01 Vitreous china wall-mounted wash hand basin	No	20		
		.02 15 mm ø pillar taps and mixers	No	22		
		.03 15 mm ø pipe connections to pillar taps	No	5		
		.04 Rubber flexi p-trap or CP bottle trap	No	23		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.03	301.01	.03 Showers:				
		.01 CP Shower heads	No	12		
		.02 Under-tile stop cocks	No	8		
		.03 Shower gratings	No	8		
		.04 Baths:				
		.01 15mm or 20mm Bath taps	No	10		
		.02 Rubber flexi p-trap or CP bottle trap	No	15		
		.05 Sinks and Wash troughs:				
		.01 15mm or 22mm wall mounted taps	No	12		
		.02 15mm or 22mm extension	No	21		
		.03 15mm wall mounted sink mixer	No	25		
		.04 Flexi rubber combination P-trap	No	23		
		.06 Urinals:				
		.01 Built-in or wall hung urinal	No	15		
		.02 Under wall Stop tap or flush master	No	15		
		.03 Rubber flexi p-trap or CP bottle trap	No	12		
		.04 CP urinal spreader and tail piece	No	11		
		.01 Vitreous china floor-mounted urinal, including water piping and outlet	No	2		
		.02 20 mm dia exposed flush valve	No	2		
		.05 Junior flush valve	No	14		
		.07 External:				
		.01 20mm dia. RB hose bip tap	No	10		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.04	301,02	<b>Isolation, stripping, dismantling and removal of existing geyser installations:</b>				
		.01 Isolate strip and remove domestic geyser (100 to 250 litres - electric)	No	14		
PAA.18	301,03	<b>Re-installation of existing geyser installations at location indicated by the Engineer including pipe work including replacement of fittings, servicing and pipe work, pipe work not exceeding 10m from previous location:</b>				
		.01 Re-install domestic geyser (100 to 250 litres - electric)	No	14		
PAA.05	301,04	<b>Supply and installation of sanitary ware and brassware:</b>				
		.01 Water closets (WC):				
		.01 Vitreous china WC washdown pan with enlarged pedestal. (360mmx405mm)	No	70		
		.02 Vitreous china WC pan - white paraplegic low level suite	No	20		
		.03 Vitreous china WC cistern - white 9 litres complete with lid and fitments	No	35		
		.04 Wall and Floor Mounted Shrouded WC Pan Grade 304 (18/10) Stainless Steel 1.2 mm gauge with pressed flushing rim and integral Stainless Steel 110 'P" Trap and back entry flush pipe inlet of 38 mm. Fixed to wall and floor with eleven anchor bolts	No	30		
		.05 3/4 " Standard "Flashmaster" Toilet valve, exposed back entry type CP, integral vacuum breaker, non hold open feature, with wall plate bent flush pipe and rubber pipe connector and seal	No	6		
		.06 1-1/4" Standard flush master flush valves, exposed type top entry with integral vacuum breaker, connector and wall flange. Comprises flush valve, straight flush pipe and flush pipe connector with chromed cover.	No	4		
		.07 Top entry flush pipe and flush pipe connector for standard flush master	No	4		
		.08 Compression pan connector for standard flush master	No	5		
		.09 100 mm ø PVC pan connector	No	5		
		.10 15 mm ø CP ball-o-stop valve with CP flexi tail pipe to WC cistern	No	5		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.05		.11 Heavy duty white buckalite type toilet seat and cover with CP hinge and spindle	No	200		
		.12 Vitreous china WC cistern -white Vaal 9 litres, with side flush lever for disabled facilities -code 710631	No	10		
		.02 Wash hand basins (WHB):				
		.01 Vitreous china 520 x 415mm rounded wall mounted wash hand basin - white	No	5		
		.02 Flexi rubber P-trap	No	4		
		.03 40 mm dia rubber P-trap	No	3		
		.04 CP Bottle trap with 75mm deep re-seal and adjustable telescopic pipe.	No	4		
		.05 15 mm ø CP pillar taps SANS 226 Type 1 (BS 5412), JASWIC Listed	No	4		
		.06 15 mm ø CP pillar taps Square type, SANS 226 Type 2 (BS 5412), JASWIC Listed	No	6		
		.07 15 mm ø CP pillar taps with raised nose and elbow action, 1/4 turn ceramic disc head part and indicator SANS 226 Type 2 (BS 5412), JASWIC Listed	No	7		
	PAA.05	.08 15 mm ø CP basin mixer - one hole, with cast swivel outlet, plug, stay, basin waste, mounting kit and angle valves SANS 226 Type 2 (BS 5412), JASWIC Listed	No	3		
		.09 15 mm ø flexi pipe tailpipe connections to pillar taps including 15mm CP ball-o-stop valve	No	2		
		.10 Plug and chain for WHB	No	2		
		.03 Sinks and wash troughs:				
		.01 CP wall-mounted sink mixer 15 mm ø - SANS 226 Type 1 (BS 5412), JASWIC Listed	No	8		
		.02 20mm CP wall-mounted hose bip tap - SANS 226 Type 1 (BS 5412), JASWIC Listed	No	4		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.05		.03 20mm RB wall-mounted hose bip tap - SANS 226 Type 1 (BS 1010), JASWIC Listed	No	7		
		.04 20mm CP extension pieces	No	7		
		.05 Flexi rubber P-trap	No	4		
		15 mm BSP male Brass drinking fountain	No			
		.06 pillarcok with adjustable nozzle flow control, hygienic protective plate		1		
		.04 Showers:				
		.01 15mm CP shower rose 50mm ø with ball joint connector	No	6		
		.02 15 mm ø under-tile stop-cocks - SANS 226 Type 1 (BS 5412), JASWIC Listed	No	7		
		.03 CP shower grating	No	4		
		.04 15mm CP shower arm with fascia plate and male iron connection	No	8		
		.05 Baths:				
		.01 Rubber flexi bath-trap	No	4		
		.02 22mm dia. 75mm long CP extension piece with sliding wall flange	No	5		
		.03 20 mm ø CP pillar taps SANS 226 Type 1 (BS 5412), JASWIC Listed	No	3		
		.04 20 mm ø CP wall mounted taps SANS 226 Type 1 (BS 5412), JASWIC Listed	No	3		
		.05 3/4" (19 mm) bath/shower diverter mixer, CP, wall type with concealed connections adjustable from 138mm to 218mm. SABS226 Type 1 (BS5412), JASWIC listed.	No	3		
		.06 3/4" (19 mm) Handshower attachment, CP, including 1200mm flexible hose and Cp hand shower fitting	No	3		
Carried forward						



## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.06	301,05	.06 Urinal:				
		.01 Vitreous china wall hung urinal with top inlet including fittings.	No	4		
		.02 3/4" (19 mm) junior urinal flushmaster valve, CP, exposed type with integral ball-o-stop valve and wall plate	No	2		
		.03 Bottle trap with 75mm deep re-seal and adjustable telescopic pipe	No	3		
		.04 CP urinal spreader and tail piece	No	2		
		.07 External:				
		.01 20mm hose bip tap, rough brass, with BSP hose union - SANS 226 Type 2 (BS 1010), JASWIC Listed	No	3		
		<b>Supply and installation of above ground sanitary drainage piping installation:</b>				
		.01 uPVC soil and waste pipes:				
		.01 50 mm ø pipe fixed to walls and soffits	m	500		
PAA.06		.02 110 mm ø pipe soil pipe fixed to wall and soffits	m	500		
		.02 uPVC soil and waste pipe fittings:				
		.01 50 mm dia. plain bend 87.5°	No	22		
		.02 50 mm dia. access bend 87.5°	No	25		
		.03 50mm dia. plain bend 135°	No	25		
		.04 50mm dia. access bend 135°	No	22		
		.05 50mm junction plain 87.5°	No	25		
		.06 50mm junction access heel 87.5°	No	40		
		.07 110mm dia. plain bend 135°	No	25		
		.08 110mm dia. access bend 135°	No	21		
		.09 110mm dia. access bend 95°	No	33		
		.10 110mm dia. plain bend 95°	No	12		
		.11 110mm vent horn bend access heel 95°	No	16		
		.12 110mm junction single access heel 95°	No	13		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.06	301,06	<b>Supply and installation of underground sanitary drainage installation:</b>				
		.01 Pipe trench excavations, bedding and				
(LI)		.01 Excavate in all materials for pipe trenches to depth of 1100 mm x 600 mm wide	m <sup>3</sup>	12		
(LI)		.02 Supply and installation of pipe bedding for flexible pipes of compacted selected granular material as well as compacted selected fill material by importation from commercial sources	m <sup>3</sup>	12		
(LI)		.03 Backfilling and compacting to 93% modified AASHTO density with selected material	m <sup>3</sup>	12		
		.04 Supply and installation of pipe bedding 400mm thick river sand	m <sup>3</sup>	22		
		.02 uPVC Solid wall sewer pipes Class 34 - 300 kPa to SANS 791 specifications:				
		.01 110 mm dia.	m	25		
		.02 160 mm dia.	m	30		
PAA.06		.03 uPVC soil and waste pipe fittings:				
		.01 110 mm ø plain bend 87,5°	No	12		
		.02 110 mm ø plain bend 135°	No	23		
		.03 110 mm ø square double junction	No	12		
		.04 110 mm ø 135° junction	No	18		
		.05 110 mm ø 90° junction	No	13		
		.06 110 mm Ø 45° access junction				
		.04 Cleaning eyes:				
		.01 100 mm ø inline cleaning eye, constructed complete with square inspection eye cast iron cover and frame Type 14A (SANS 558) daylight opening size 295 x 295mm and 500 x 500 x 75mm thick concrete encasement	No	4		
Carried forward						



## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Brought forward								
PAA.20	301,08	.09 Water meter stations installed including strainer and one ball-o-stop shut-off valve with Copper piping Class 0 SANS 460 pipe connection 600mm above ground including 500 x 500 concrete 20MPa base:						
		.01 20 mm ø socketed brass water meter	No	14				
		.02 32 mm ø water meter	No	3				
		<b>Supply and installation of domestic geyser installations including shut-off valves, strainers, non-return valves, expansion relief valve, safety valve, drain piping and</b>						
		.01 SANS 151 dual 150 litre, 3 kW 600 kPa approved geyser	No	12				
		.02 SANS151 dual 100 litre, 3 kW 600kPa approved geyser	No	12				
		.03 Supply and installation of solar powered geyser installation, can be used in frost-free locations, inclusive of solar storage tank/s, solar collector panel/s, all brackets and fittings, shut off valves, strainers, drip tray, non return valves, expansion relief valve, safety valve, drain DiDino and electrical connection .01 Close coupled unit pitched roof installation - 150 litre, 2kW, 400kPa approved geyser. Should be similar to current damaged units. These units needs to be approved by the engineer	No	40				
		PAA.10	301,09	<b>Servicing, cleaning and repair of sanitary ware:</b>				
				.01 Water closets (WC):				
				.01 Repair WC cistern flushing mechanism with repair kit	No	22		
.02 Replace cistern type flushing mechanism with new	No			36				
.08 Connections to existing underground								
Location of existing underground pipes								
.01 including excavations, backfilling and reinstatement of existing surfaces	item			1				
.09 Pipe trench exavations, bedding								
Excavate in all materiels for pipe	m³							
.01 trenches to depth of 1100mm x 600mm wide				65				
.02 Supply and installation of pipe bedding 50mm thick river sand	m³	6						
Carried forward								

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.11	301,10	<b>Servicing, overhauling and cleaning of brassware:</b>  .01 Replace washers on brassware with washer  .01 15 mm ø CP pillar taps  .02 20 mm ø CP pillar taps  .03 15 mm ø CP wall-mounted taps  .04 20 mm ø CP wall-mounted taps  .05 20 mm ø brass hose bib taps  .06 15 mm CP sink mixers  .07 22mm exposed junior flush valve  .08 22mm under wall stop taps  .09 22mm basin mixer	No	75		
PAA.06.05	301,11	<b>Supply and installation of Drainage Piping installation</b>  .01 PVC soil and waste pipes:  .01 40 mm dia pipe fixed to walls and soffits  .02 50 mm dia pipe fixed to walls and soffits  .03 110 mm dia pipe fixed to walls and soffits  .02 PVC soil and waste pipe fittings:  .01 40 mm dia elbows  .02 50 mm dia elbows  .03 110 mm dia elbows  .04 40 mm dia junction  .05 50 mm dia junction  .06 110 mm dia junction	m	29		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

REPAIR WORK								
PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Brought forward								
PAA.06.05		.03 Pipe trench excavations, bedding and						
		.01 Excavate in all materials for pipe trenches to depth of 1100 mm x 600 mm wide	m³	8				
		.02 Supply and installation of pipe bedding 50 mm thick river sand	m³	4				
		.03 Backfilling and compacting to 93% modified AASHTO density with selected material	m³	5				
		.02 <b>Supply and installation of piping including jointing and testing:</b>						
		.01 110mm PVC	m	175				
		.03 PVC couplings:						
		.01 100 mm dia 45° bend with IE	No	22				
		.02 50 mm dia 45° junction	No	11				
		.03 100 mm dia 45° junction IE	No	11				
		.04 PVC soil and waste pipe fittings						
		.01 110 mm dia elbows	No	11				
		.02 110 mm dia junction	No	11				
		.05 Cleaning eyes:						
PAA.12	301,12	100 mm dia inline cleaning eye constructed complete with ABC and lamphole cover and frame and concrete encasement	No	5				
		<b>Servicing, cleaning and repair of domestic water and drainage pipe installations:</b>						
		.01 Servicing and repair of drainage installations:						
		.01 Unblock and clean pipe work including fittings, 50 mm ø pipe	m	65				
		.02 Unblock and clean pipe work including fittings 100 mm ø pipe	m	87				
		.03 Replace damaged gully with pre-cast concrete gully	No	8				
		.04 Replace broken or damaged gully P-traps	No	12				
		.05 Replace missing or broken round cast iron gully gratings 100mm - 300mm diameter	No	4				
		.06 Replace missing or broken square cast iron gully gratings 250mm x 250mm wide	No	12				
		Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.12		.01 .07 Replace missing or broken vent valve for 50mm air vent	No	8		
		.08 Replace missing or broken vent valve for 110mm air vent	No	5		
		.09 Replace missing or broken cast iron inspection eye cover and frame only SANS 558 Type 14A in 500 x 500 mm x 75 mm thick concrete encasement	No	8		
		.10 Replace missing or broken round cast iron gully grating 100mm-300mm	No	6		
PAA.08	301,13	<b>Supply and installation of domestic geyser installations including shut-off valves, strainers, non-return valves, expansion relief valve, safety valve, drain piping and electrical connection:</b>				
		.01 SANS151 dual 150 litre, 3 kW 600kPa approved geyser	No	2		
		.02 SANS151 dual 100litre, 3 kW 600kPa approved geyser	No	2		
		.03 SANS151 dual 200litre, 3 kW 600kPa approved geyser	No	2		
PAA.10	301,14	<b>Servicing, cleaning and repair of sanitary ware:</b>				
		.01 Water closets:				
		.01 Destaining of WC pan	No	8		
		.02 Chip repair of WC pan	No	2		
		.03 Repair WC cistern flushing mechanism with repair kit	No	24		
		.04 Replace broken or missing seat and covers	No	16		
		.02 Urinals:				
		.01 Destaining of urinal bowl	No	9		
		.02 Chip repair of urinal bowl	No	2		
PAA.06.08		.03 Washhand basins:				
		.01 Destaining of basin	No	21		
		.02 Chip repair of basin	No	3		
		.03 Remove and replace silicone sealant for wall mounted basins	No	1		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

REPAIR WORK							
PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
PAA.12	301,15	.04 Sinks:					
		.01 Destaining of sinks	No	2			
		.02 20 mm dia CP pillar taps	No	18			
		.03 15 mm dia CP wall-mounted taps	No	8			
		.04 20 mm dia CP wall-mounted taps	No	6			
		.05 20 mm dia hose bib taps, brass	No	2			
		.06 15 mm CP sink mixers	No	8			
		.07 22mm exposed junior flush valve	No	12			
		.08 22mm under wall stop taps	No	12			
		.09 22mm basin mixer	No	22			
		.10 25 mm Junior flush master, including replacing flush master kits	No	6			
		<b>Servicing, cleaning and repair of domestic water and drainage pipe installations:</b>					
		.01 Servicing and repair of drainage installations:					
		.01 Unblock and clean pipe work including fittings, 50 mm ø pipe	m	65			
		.02 Unblock and clean pipe work including fittings 100 mm ø pipe	m	87			
		.03 Replace damaged gully with pre-cast concrete gully	No	8			
		.04 Replace broken or damaged gully P-traps	No	12			
		.05 Replace missing or broken round cast iron gully gratings 100mm - 300mm diameter	No	5			
		.06 Replace missing or broken square cast iron gully gratings 250mm x 250mm wide	No	12			
		.07 Replace missing or broken vent valve for 50mm air vent	No	16			
		.08 Replace missing or broken vent valve for 110mm air vent	No	16			
		.09 Replace missing or broken cast iron inspection eye cover and frame only SANS 558 Type 14A in 500 x 500 mm x 75 mm thick concrete encasement	No	8			
Carried forward							



## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT		
Brought forward								
PAA.06.10	301,16	.10 Replace missing or broken round cast iron gully grating 100mm-300mm diameter	No	6				
		<b>Servicing, cleaning and repair of domestic water and drainage pipe installations:</b>						
		.01 Water pipe installation:						
		.01 Pressure test existing water installation	item	1				
		Taking of water pipe samples including cutting out, repairing existing piping, and analysing of pipe sample for 15 mm dia to 32 mm dia piping	No	4				
		Taking of water pipe samples including cutting out, repairing existing piping, and analysing of pipe sample for 40 mm dia to 50 mm dia piping	No	4				
		.04 Taking of water pipe samples including cutting out, repairing existing piping, and analysing of pipe sample for 80 mm dia to 100 mm dia piping	No	4				
		.05 Preparation and painting of pipework for 15mm dia to 32mm dia piping	m	6				
		.06 Preparation and painting of pipework for 40mm dia to 50mm dia piping	m	2				
		.07 Unblock and clean pipework including fittings, 150 mm dia pipe	m	15				
		.08 Unblock and clean gullies	No	3				
		.09 Repair damaged gullies	No	6				
		.10 Replace missing or broken gully gratings	No	4				
		.11 Replace missing or broken cleaning eye cover, ABC cast-iron cleaning eye	No	3				
		.12 Replace missing vent pipes, 100 mm dia cast-iron pipe and fittings	m	4				
		.02 Servicing and repair of brassware, including gaskets, gland packings , seals, and handles:						
		.01 Brass gate valves	No	5				
		.02 20 mm dia stop-cocks	No	5				
		Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PAA.13	301,17	<b>Servicing, cleaning and repair of domestic geysers, including replacement of element, thermostat, safety valve and vacuum breakers and rectifying of pipe work where necessary:</b>				
		.01 100 litre electric geyser	No	10		
		.01 150 litre electric geyser	No	10		
		.01 200 litre electric geyser	No	5		
CF.01.03	301,18	<b>Manhole covers and grid inlets and the like:</b>				
		.01 Replacement of manhole covers, grid inlets,				
		.01 SANS 558 Type 2A - Heavy Duty Class Circular Manhole Covers and (Square Base) Frame, Solid Top Type:				
		.01 Maximum dimension up to and including 300mm	No	2		
		.02 Maximum dimension 301 mm to 600 mm	No	2		
CF.01.03		.02 SANS 558 Type 4A - Medium Duty Class Circular Manhole Covers and Frame, Single Steel Type				
		.01 Maximum dimension up to and including 300mm	No	2		
		.02 Maximum dimension 301 mm to 600 mm	No	2		
CF.01.04	301,19	<b>Manhole covers, grid inlets and like:</b>				
		.01 Manholes and inspection chambers:				
CF.01.04.02		.01 New pre-cast manhole up to 1.2m deep, including pre-cast cover and frame	No	3		
CF.01.04.02		.02 New pre-cast manhole from 1.2m up to 2.4m deep, including pre-cast cover and frame	No	4		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SANS 8.3.2(a)	302.00	<b><u>BULK WATER AND EXTERNAL WATER RETICULATION EXCAVATIONS</u></b>				
	302.01	<b>Excavate in all materials for trenches, backfill, compact, and dispose of surplus/unsuitable material, for the following pipe diameters for total trench depths:</b>				
		.01 Not exceeding 1m deep x 600mm wide	m	22		
		.02 Extra-over item .01 above for:				
		.01 Intermediate Excavation	m <sup>3</sup>	8		
8.3.2(a)	302.01	.02 .02 Hard rock excavation	m <sup>3</sup>	5		
		.03 Excavation ancillaries				
		.01 Compaction in road reserves	m <sup>3</sup>	25		
8.3.2(a)	302.01	.04 Re-instate road surfaces complete with all courses				
		.01 Gravel on shoulders	m <sup>2</sup>	20		
		.02 Concrete block paving	m <sup>2</sup>	20		
SANS 8.2.1	302.02	<b>Provision of bedding from trench excavations</b>				
		.01 300mm x 600mm bedding	m <sup>3</sup>	22		
		<b><u>PIPES AND FITTINGS</u></b>				
SANS 1200L 8.2.1	302.03	<b>Supply, lay and bed pipes complete with couplings, including testing</b>				
		.01 32mm dia. HDPE pipe Class 10, jointed with Plasson high compression fittings	m	28		
		.02 63mm dia. HDPE pipe Class 10, jointed with Plasson high compression fittings	m	30		
		.03 75mm dia. UPVC pipe Class 12, with mechanical rubber ring	m	30		
		.04 110mm dia. UPVC pipe Class 12, with mechanical rubber ring	m	25		
SANS 1200L 8.2.2	302.04	<b>Extra over for supplying, laying and bedding of fittings complete with couplings as per pipe and fittings schedule</b>				
		.01 32mm dia. Polypropylene, high-grade copolymer high compression adaptor for GMS	No	4		
		.02 32mm dia Polypropylene, high-grade copolymer high compression couplings	No	4		
Carried forward						

## SCHEDULE NO 3.2: INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SANS 1200L 8.2.2	302.04	.03 32mm dia Polypropylene, high-grade copolymer high compression elbows	No	4		
		.04 64mm dia. Polypropylene, high-grade copolymer high compression adaptor for GMS	No	4		
		.05 64mm dia Polypropylene, high-grade copolymer high compression couplings	No	4		
		.06 64mm dia Polypropylene, high-grade copolymer high compression elbows	No	4		
		.07 63mm x 32mm x 63mm dia Polypropylene, high-grade copolymer high compression reducing tee.	No	4		
		.08 75mm dia Class16 CI bends for uPVC pipes of all degrees	No	4		
		.09 110mm dia Class16 CI bends for uPVC pipes of all degrees	No	4		
		.10 75mm dia Class 16 uPVC bends of all degrees	No	4		
		.11 110mm dia Class16 uPVC bends of all degrees	No	4		
		.12 75mm dia Class 16 UPVS tees of all degress	No	4		
		.13 110mm dia Class16 uPVC tees of all degrees	No	4		
		.14 75mm-63mm dia Class 16 uPVC reducing tees of all degrees	No	4		
		.15 110mm - 75mm dia Class16 uPVC reducing tees of all degrees	No	4		
SANS 1200L 8.2.5	302.05	<b>Supply and place pipes, fittings and specials as per pipe and fittings schedule</b>				
		.01 Megaflex DHD 60 industrial garden hose with 10 years design life, 4000kPa max pressure, blue stripe, according to SABS 645-1970 type 2, per 30 meter roll	number	4		
	<b>TOTAL</b>	<b>SCHEDULE 3.2 : INSTALLATION C2: PLUMBING, DRAINAGE AND WET SERVICES - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	400,00	<b><u>FENCING, CLEANING AND SITE KEEPING</u></b>				
	401,00	<b><u>SOLID WASTE MANAGEMENT</u></b>				
	401,01	Cleaning of site as detailed in table CC 07/01	ha	5		
CG.06.01	401,02	Disposal of litter	m <sup>3</sup>	90		
CG.05	401,03	Supply of waste bins:				
		.01 Square black 240 litre waste bins including wheels	No	4		
		.02 105 litre swing steel bin size 475mm Ø x 800mm high	No	4		
		.03 60 litre wall mounted steel litter bin	No	4		
		.04 Round black 90 liter waste bin	No	4		
CA.06.01.03	401,04	Overhaul on material for haul in excess of 1,0 km:	m <sup>3</sup> .km	35		
CG.06.02	401,05	Waste collection skip	No	1		
SANS 1200C	402,00	<b><u>SITE MAINTENANCE</u></b>				
8.2.2	402,01	.01 Removal and grubbing of large trees and tree stumps of girth:				
		.01 over 1 m and up to and including 2 m	No	4		
		.02 over 2 m and up to and including 3 m	No	5		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CJ.05	403,00	<b><u>SUPPLY OF EQUIPMENT FOR ABLUTIONS AS DESCRIBED IN ITEM CJ 03 OF THE TECHNICAL SPECIFICATION</u></b>				
CJ.05.01		.01 Stainless steel hand dryer unit with blower output of 450 watt @ 20 000 rpm similar or equal to accelerator	No	4		
CJ.05.02		.02 Auto digital aerosol dispenser with stainless steel cover	No	3		
CJ.05.03		.03 Stainless steel toilet paper dispensing units, capable of holding two toilet paper rolls per	No	6		
CJ.05.04		.04 Stainless steel she bins	No	14		
CJ.05.05		.05 Stainless steel hand soap dispenser	No	6		
CJ.05.06		.06 Stainless steel urinal sanitizer	No	7		
CC.01 (LI)	403,01	<b>Clearing of growth along fire break on all fences route 2.5 m wide both sides</b>	m	3 000		
	404,00	<b><u>REPAIR WORK TO FENCES</u></b>				
		.01 Repair of wire and mesh fences less than 1.3m high	m	300		
		.02 Repair of wire and mesh fences between 1.3m and 2.0m high	m	300		
		.03 Repair of wire and mesh fences between 2.0m and 3.0m high	m	450		
CC.06	404,00	<b><u>REPAIR, RE-FIXING, PAINTING AND ALIGNING OF GATES</u></b>				
		.01 Repair, refix and align single or double gates 1.2m high and up to 3.0m wide	No	30		
		.02 Repair, refix and align single or double gates 3.0m high and up to 15m wide	No	15		
	405,00	<b><u>OPERATIONAL FENCE -1,8 m STEEL PALASIDE FENCE</u></b>				
		<b>Redress, treating and painting of:</b>				
		.01 Palisade fence				
		.01 1.8m High Palisade Fence	m	250		
		<b>Supply and erection of new steel palisade</b>				
		.01 1.8 m High steel palisade fence similar to m existing	m	50		
		.02 Square posts for 1,8 m high fence similar to existing	No	8		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CC.02	406,00	<b><u>3m HIGH PERIMETER FENCE - WELDED MESH, TUBULAR STEEL POSTS, WITH 730mm CONCERTINA RAZOR WIRE</u></b>				
	406,01	<b>Supply and erection of new fencing material to replace old material:</b>				
		.01 Welded mesh:				
		.01 3m diamond mesh	m	200		
		.02 Tubular posts:				
		.01 3.0m high fence	No	15		
		.02 110 mm tubular posts with additional 600 mm double overhang at 45° and with concrete footing for 3.0m high fence	No	15		
		.03 65mm dia. stay for 3.0m post	No	15		
		.04 4mm thick fully galvanized straining wire	m	1 200		
		.05 730mm fully galvanised concertina razor wire	m	150		
CC.02		.06 Gates				
		.01 Double gate of height 3m	No	2		
CC.02	407,00	<b><u>2.0 m PERIMETER FENCE - TUBULAR STEEL</u></b>				
	407,01	<b>Supply and erection of new fencing material to replace old material:</b>				
		0.1 Diamand mesh:				
		0,1 2.0 m diamand mesh	m	700		
		.02 Tubular posts:				
		.01 75mm tubular posts with additional 600 mm overhang at 45 degrees and with concrete footing for 2.4m high fence	No	200		
		.02 110mm tubular posts with additional 600mm overhang at 45 degrees and with concrete footing for 2.4m high fence	No	21		
		.03 65mm dia Stay for 2.4m post	No	20		
		.04 Straining wire	m	900		
		.05 Barbed wire	m	300		
		.06 Gates in 2.4m high fences				
		.01 Double gate between 5.0m and 10.0m wide	No	2		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CC.02	408,00	<b><u>1.8m HIGH PERIMETER FENCE - RAZOR WIRE, TUBULAR STEEL POSTS WITH 45° SINGLE OVERHANG</u></b>				
	408,01	<b>Supply and erection of new fencing material to replace old material:</b>				
		.01 Razor Mesh:				
		.01 1.8 m high razor mesh	m	70		
CC.02	408,01	.02 Replace damaged gully with pre-cast concrete Palisade	no	12		
		.02 Tubular posts:				
		.01 75 mm tubular posts with additional 600 mm single overhang at 45° and with concrete footing for 1.8m high fence	No	15		
		.02 110 mm tubular posts with additional 600 mm single overhang at 45° and with concrete footing for 1.8m high fence	No	15		
CC.06 (LI)	408,01	.03 65mm dia. Stay for 1.8m post	No	10		
		.04 700mm fully galvanised flat wrap wire	m	70		
		<b>Redress, treating and painting of:</b>				
		.01 Gates:				
CC.05 (LI)	408,02	01 Double gate up to 6m wide	No	2		
		.02 Tubular posts:				
		.01 1.8 m high fence	No	10		
Carried forward						



## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CC.02	409,00	<b><u>1.8m PERIMETER FENCE - DIAMOND MESH. TUBULAR STEEL POSTS</u></b>				
	409,01	<b>Supply and erection of new fencing material to replace old material:</b>				
		.01 Diamond mesh:				
		.01 1.8m 2.5 mm 50x50 mm high diamond	m	70		
		.02 1,8 m 3.15 mm 25/25 mm high diamond	m	50		
	409,02	.02 Tubular posts:				
		.01 75mm tubular posts with additional 600 mm overhang at 45 degrees and with concrete footing for 1.8m high fence	No	15		
		.02 110mm tubular posts with additional 600mm overhang at 45 degrees and with concrete footing for 1.8m high fence	No	15		
		.03 65mm dia Stay for 1.8m post	No	15		
		.04 Y-standards for 1,8 m high fence	No	15		
CC.04		.05 Straining wire	m	400		
		.06 Barbed wire	m	100		
		.07 Gates in 1.8m high fences				
		.01 Double gate between 5.0m and 10.0m	No	1		
	410,00	<b><u>2.4m PERIMETER FENCE - DIAMOND MESH. TUBULAR STEEL POSTS</u></b>				
	410,01	<b>Supply and erection of new fencing material to replace old material:</b>				
		.01 Diamond mesh:				
		.01 2.4m diamond mesh	m	1 200		
		.02 Tubular posts:				
		.01 75mm tubular posts with additional 600 mm overhang at 45 degrees and with concrete footing for 2.4m high fence	No	15		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
CC.04	410,02	.02 .02 110mm tubular posts with additional 600mm overhang at 45 degrees and with concrete footing for 2.4m high fence	No	15			
		.03 65mm dia stay for 2.4m post	No	15			
		.04 Straining wire	m	500			
		.05 Barbed wire	m	100			
		.06 Gates in 2.4m high fences					
		.01 Double gate between 5.0m and 10.0m	No	1			
	SABS 1200 G 8,3 8.3.2	410,03	CONCRETE STRUCTURE FOR FENCING				
			.01 Excavate for restricted foundation, footings and trenches in all materials and dispose to backfill or embankment or dispose	m³	5		
			.02 Break up, hack off and remove existing	m³	5		
			.03 Importing, placing and compacting approved G6 material in layers of 150mm from comercial sources or from borrow pits to 95% MOD AASHTO density	m³	3		
	411,00	RESIDENTIAL FENCE - 1,2 m DIAMOND MESH, TUBULAR STEEL POSTS AND STANDARDS					
CC.02	411,01	Supply and erection of new fencing material to replace old material:					
		.01 Diamond mesh:					
		.01 1,2 m diamond mesh fence	m	100			
		.02 110mm tubular post with concrete footing for 1.2m high fence	No	15			
		.03 65mm dia. Stay for 1,2 m post	No	15			
		.04 Y-standards for 1,2 m high fence	No	15			
		.05 4mm thick fully galvanized straining wire	m	400			
		.06 Gates:					
		.01 In 1,2 m high fences:					
			.01 single and double gates less than 1,5 m wide	No	1		
	.02 single and double gates between	No	1				
CC.02							
Carried forward							

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CC.06 (LI)	411,02	<b>Redress, treating and painting of:</b>				
		.01 Gates:				
		.01 Double gate up to 3m wide	No	4		
		.02 Single gate up to 1.5m wide	No	4		
CC.05 (LI)		.02 Tubular posts:				
		.01 1.2 m high fence	No	50		
CC.02	412,00	<b><u>3.0 m HIGH SECURITY FENCE (HOTDIPPED GALVANISED IN ACCORDANCE WITH (SO 1461))</u></b>				
	412,01	.01 Po				
		.01 3750 mm long x 100 mm x 70 mm x 8 mm angle iron posts, predrilled holes for fixing panels, including 2922 mm x 70 mm x 6 mm flat iron section predrilled holes for fixing mesh to posts using stainless steel M8 x 40 mm countersunk flushlocks bolts 9 per coverplate	No	20		
		.02 Toprails				
		.01 2996 mm x 40 mm x 40 mm x 3 mm angle iron predrilled holes for fixing rails to posts and for fixing top section of mesh to rail. Toprail to be fitted with 32 mm x 2 mm serrated comb, fillet welded 10 mm at every 10 mm centres, including bolts, shear nuts and washers M8 x 30 mm stainless steel cupsquare bolts to fixed rails to posts and M8 x 40mm stainless steel cupsquare bolts to fixed top section of mesh to rails. Minimum coating of top rails 55 microns minimum coating of serrated comb. 55 microns	No	20		
		.03 Bottomrail:				
		.01 2996 mm x 40 mm x 40 mm x 3 mm angle iron predrilled holes for fixing rails to posts and for fixing top section of mesh to rail, including bolts, shear nuts and washers M8 x 40 mm stainless steel cupsquare bolts to fixed bottom section of mesh to rails	No	20		
		Minimum coating of bottom rail 55				
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		.04 Panels - 356 double line wire and single skin mesh:				
		.01 Heavy high security welded panel fence, with rectangular mesh liner apertures 72.2 mm x 8.7 mm wire diameter 4 mm vertical wires are welded on both sides of the horizontal wires Width of panel 3050 mm Height of panel 2 995 m Tensile strength 600 - 900 mm <sup>2</sup> Weld strength 60 -80% Weight 10 000 kg/m <sup>2</sup> Coating: Calfan Class A Coated in accordance with SANS 10244-2-2003	No	20		
		.05 Overhang extension:				
		.01 405 mm overhang extension with 3 strands of existing motto 2,5 mm double stranded aluzinc barbed wire and 405 mm diameter galvanised barbed tape concertina razor coil	m	250		
		.06 Concrete footing				
		.01 Supply and install a 20 Mpa/19mm stone concrete footing size 300 mm wide x 200 mm deep complete with framework	m <sup>3</sup>	8		
CC.02	413,00	<b><u>1.8 m PRECAST WALL CONCRETE POSTS</u></b>				
		<b>Supply and erection of new fencing material to replace old material:</b>				
		.01 1.8m precast wall posts similar to existing undamaged wall posts	No	50		
		.02 1.8m precast wall units similar to existing undamaged wall units	No	50		
SABS 1200 G 8,4	414,00	<b>CONCRETE (STRUCTURAL)</b>				
		<b><u>SCHEDULED CONCRETE ITEMS</u></b>				
8.4.3	414,01	<b>Strength concrete:</b>				
		.01 Class 25 Mpa concrete in strip footings	m <sup>3</sup>	5		
		.02 Class 25 Mpa in concrete walls	m <sup>3</sup>	4		
8.3.1	414,02	<b>Supply and fabrication of steelwork:</b>				
		.01 Jointing by with 6mm filliet welds:				
		.01 Square section column guides with 500x500x8mm flat section base plates and end cap plates	t	1		
		.02 Square-section frame work in existing sliding gates	t	1		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
8.3.2.0	414,03	<b>Delivery to Site:</b>  .01 Normal delivery:  .01 Columns, rafters, purlins and braces for carport structures complete as scheduled under item 8.3.1 above	t	2		
8.3.3	414,04	<b>Erection on Site:</b>  .01 Steel framework and guides for existing steel sliding gates	t	2		
CC.08.02	414,05	<b>Supply and erection of new fencing material to replace old material</b>  .01 Smooth wire  .02 Diamond mesh  .03 Welded Mesh	m m <sup>2</sup> m <sup>2</sup>	70 70 70		
CC.08.02	414,05	<b>Supply and erection of new fencing material to replace old material</b>  .01 Smooth wire  .02 Diamond mesh  .03 Welded Mesh  .04 Barbed tape "flatwrap", 700mm diam  .05 Steel rail way beam dor 2.1m high fence  .06 Steel stys for 2.1m high fence  .07 Tubular posts for 1.8m high fence  .08 Steel stays for 1.8m high fence  .09 Tubular posts for 1,2m high fence  .10 Steel stays for 1.2m high fence  .11 Y-standards for 1,8m fence  .12 Y-standards for 1,2m high fence	m m <sup>2</sup> m <sup>2</sup> m No No No No No No No No	70 70 70 70 5 5 5 5 5 5 5 5		
8.3.12	414,06	<b>Additional Items</b>  (e) .01 Dismantling and removal of existing steel sliding gates  (e) .02 Dismantling and removal existing steel sliding gate guides  (e) .03 Dismantling and removal of existing steel	No No No	3 3 2		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
(f)		.04 Re-erection of existing steel sliding gates.	No	3		
(f)		.05 Re-erection of existing steel sliding gate guides	No	3		
(f)		.06 Re-erections of existing steel panels	No	3		
(g)		.07 Tying in to existing steel sliding gates	No	4		
(g)		.08 Tying in to existing steel sliding gate guides	No	4		
(g)		.09 Tying in to existing steel panels.	No	4		
		.10 Replace 150mm sliding gate wheels	No	8		
		.11 Replace sliding gate guide wheels	No	8		
Carried forward						

## SCHEDULE NO 3.3: INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SANS 10222	415,00	<b><u>ELECTRIC GATE MOTOR AND FENCE (6 strand ) - SANS 10222 approved</u></b>				
	415,01	<b><u>Supply and install the following equipment in the Control Room</u></b>				
		.01 Mains/ battery Energiser Unit complete with digital display and 56 Joule stored capacity, Inclusive of limiting devices (Stafix M36 or Equal and approved) (Sans 10222-3 & Sans 60335-2-76 approved)	No	2		
		.02 Relay for 4 Zone Mimic Panel	No	2		
		.03 230 V battery backup power supply unit for the unit above	No	3		
	415,02	<b><u>Supply and Install the following monitoring devices</u></b>				
		.01 4 Zone low voltage Monitor	No	2		
		.02 Fence fault alarm sounder	No	2		
		.03 Red Night light Pulsar	No	2		
	415,03	<b><u>Supply and Install Wall Mounted Brackets.</u></b>				
		.01 Supply and install angled squares tubed wall mounted galvanised bracket complete with Bobbins	No	200		
		.02 Strain/line insulators and tensioning springs	No	26		
		.03 6 wire T pole assembly with strain insulators	No	18		
		.04 Tensioning springs	No	12		
	415,04	<b><u>Wiring</u></b>				
		.01 Supply and install A-marine grade 2mm 316 stainless steel wire. (Inclusive of joints etc)	m	3500		
		.02 Supply and install Low resistance aluminium 2.7mm HT cable terminated to Fence as required.	m	1000		
	415,05	<b><u>Gate motors</u></b>				
		.01 Supply and installation of Centurian D10 automatic gate opener inclusive of geared rail (approximately 6m) to existing gate. Installation of safety beam, 1 to 1 Comax intercom system installed to guard house complete with galvanised goose neck (230/12 v PS) Code hopping remote control receiver and 10 No. transmitters programmed and issued to TPL staff. To include plinths etc.	No	4		
	TOTAL	<b>SCHEDULE 3.3 : INSTALLATION C3: FENCING, CLEANING AND SITE KEEPING - CARRIED TO SUMMARY:</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS****CIVIL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>500,00</b>	<b><u>BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS</u></b>				
<b>SANS 1200</b>	<b>500,01</b>	<b>Supply and install pipes, valves, fittings and specials:</b>				
		.01 25mm ball valve with plastic coated plated steel lever and 2" (50 mm) female connections	No	3		
		.02 25mm double orifice air valve / pump protector with bias mechanism	No	3		
		.03 20mm ball valve with plastic coated plated steel lever and 2" (50 mm) female connections	No	5		
		.04 20mm pressure gauge 0-1000 kPa with large scale and stainless steel housing	No	3		
		.05 80mm dia. flanged bulk water meter, flow rates between 0.15 m <sup>3</sup> /h and 100 m <sup>3</sup> /h, 6 figure display and epoxy powder coated body and cover for sizes 40mm to 125mm, pressure of 16 bar	No	3		
<b>SANS 1200 L</b>		.06 80mm dia. flanged resilient seal gate valve with wheel handle	No	3		
<b>8.2.5</b>		.07 80mm dia. standard cast iron flange adaptor from 80mm GMS to 75mm HDPE	No	1		
<b>SANS 1200 L</b>	<b>500,02</b>	<b>Supply and install pipes, valves, fittings and specials</b>				
<b>8.2.5</b>		.01 Pipe fitting 1: base plate	No	1		
		.02 Pipe fitting 2: Flanged T with couplings	No	1		
		.03 Pipe fitting 3: Flanged 1m section	No	1		
		.04 Pipe fitting 4: Flanged elbow	No	1		
Carried forward						



## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SANS 1200 L 8.2.1	500,03	<b>Supply, lay and bed pipes complete with couplings, including testing:</b>  .01 32mm dia. HDPE PE100 Class 10 pipe, jointed with Plasson high compression fittings  .02 75mm dia. HDPE PE100 Class 10 pipe, jointed with Plasson high compression fittings	m	35		
SANS 1200DB 8.3.2(a)	501,00	<b><u>EXCAVATIONS</u></b>				
	501,01	<b>Excavate in all materials for trenches, backfill, compact, and dispose of surplus/unsuitable material, for the following pipe diameters for total trench depths:</b>  .01 Not exceeding 1m deep x 600mm wide  .02 Extra-over item 501.01.01 for:  .01 Intermediate excavation  .02 Hard rock excavation  .03 Excavation ancillaries  .01 Compaction in road reserves	m <sup>3</sup>	65		
8.3.2(b)		.04 Re-instate road surfaces complete with all courses  .01 Gravel on shoulders  .02 Asphalt of 30mm thickness in roadway	m <sup>2</sup>	15		
SANS 1200LB 8.2.1	501,02	<b>Provision of bedding from trench excavations:</b>  .01 300mm x 600mm bedding of selected granular material	m <sup>3</sup>	22		
SANS 1200LB 8.2.2.2	501,03	<b>Supply only of bedding from borrow pits:</b>  .01 300mm x 600mm bedding of selected granular material	m <sup>3</sup>	22		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
EK 07.05	502,00	<b><u>BULK WATER SUPPLY</u></b>				
	502,01	<b>Decommission and remove gate valves, non-return valves, air release valves and sluice gates:</b>				
		.01 50mm double orifice air release valve	No	3		
		.02 50mm non-return valve	No	3		
		.03 80mm non-return valve	No	4		
		.04 110mm hydraulic float control valve	No	6		
		.05 110mm water meter	No	3		
		.06 50mm gate valve	No	3		
		.07 80mm gate valve	No	4		
		.08 100mm gate valve	No	3		
EK 07.03	502,02	<b>Service gate valves, non-return valves, air release valves and sluice gates:</b>				
		.01 50mm double orifice air release valve	No	4		
		.02 50mm non-return valve	No	5		
		.03 80mm non-return valve	No	6		
		.04 110mm hydraulic float control valve	No	3		
		.05 110mm water meter	No	6		
		.06 50mm gate valve	No	3		
		.07 80mm gate valve	No	6		
		.08 100mm gate valve	No	6		
		.09 150mm gate valve	No	3		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
EK 07.01	502,03	<b>Supply and delivery of gate valves, non-return valves, air release valves and sluice gates:</b>				
		.01 50mm double orifice air release valve	No	5		
		.02 50mm non-return valve	No	2		
		.03 50mm flanged resilient seal gate valve	No	1		
		.04 80mm non-return valve	No	2		
		.05 80mm flanged resilient seal gate valve	No	1		
EK 07.02	502,04	<b>Installation, testing and commissioning of gate valves, non-return valves, air release valves and sluice gates:</b>				
		.01 50mm double orifice air release valve	No	5		
		.02 50mm non-return valve	No	3		
		.03 80mm non-return valve	No	4		
		.04 110mm hydraulic float control valve	No	3		
		.05 110mm water meter	No	6		
		.06 50mm gate valve	No	3		
		.07 80mm gate valve	No	3		
		.08 100mm gate valve	No	2		
		.09 150mm gate valve	No	2		
CE.05.02	502,05	<b>Cleaning of existing manholes, chambers and other structures:</b>				
		.01 Manholes, valve chambers, etc.	No	20		
CE.05.04	502,06	<b>Repair of existing manholes, chambers and other structures:</b>				
		.01 Manholes:				
		.01 Brickwork	m <sup>2</sup>	14		
		.02 Concrete	m <sup>3</sup>	7		
		.03 Precast concrete manhole sections	No	4		
		.04 Service manhole cover opening mechanisms on pumping main valve chambers	No	7		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CE.05.04		.02 Chambers and other structures:				
		.01 Brickwork	m <sup>2</sup>	4		
		.02 Concrete	m <sup>3</sup>	4		
SANS 1200 LF 8.2.4	502,07	<b>Supply and install meters complete with couplings (as described in par CE 04.02.04 (m)(ii):</b>				
		.01 50 mm dia watermeter, with integrated strainer	No	10		
		.02 80 mm dia watermeter, with integrated strainer	No	4		
	502,08	<b>Supply and install valve box cover:</b>				
		.01 50 mm dia watermeter	No	3		
		.02 80 mm dia watermeter	No	3		
	503,00	<b><u>CHLORINATION</u></b>				
DA.06.06	503,01	<b>Supply, deliver and install new chlorination enclosure complete with roof and floor at the reservoir</b>	No	1		
DL 07.01	503,02	<b>Supply and delivery of chlorination systems as described in DL.04.02:</b>				
		.01 Dosing pump (6 bar, 2.7l/h) with PVC head and electronic control panel and wall bracket to mount pump with installation kit including injection nozzle, suction foot valve, 10 m dosing hose and pressure relief valve	No	3		
		.02 315l chemical supply tank on 600 x 600 x 300mm raised platform, which includes plumbing into supply tank and drain within 10m	No	3		
		.03 Signal cable with plug for connecting into pump from watermeter and electrical wiring with Reed Switch pulse sensor	No	2		
DL 07.02	503,03	<b>Installation, testing and commissioning of chlorination systems:</b>				
		.01 Complete system with dosing pump, tank and all fittings and accessories	No	2		
	504,00	<b><u>DOSING EQUIPMENT AND VALVES</u></b>				
DN. 08.01	504,01	.01 Supply and delivery of chemical dosing equipment	No	3		
DN. 08.02	504,02	.02 Installation, testing and commissioning of chemical dosing equipment	No	3		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
DN. 08.03	504,03	.03 Servicing and testing of chemical dosing equipment	No	3		
DN. 08.04	504,04	.04 Decommissioning and removal of chemical dosing	No	3		
DN. 08.05	504,05	.05 Decommissioning and repair/reconditioning of valves and sluice gates	No	6		
DN. 08.06	504,06	.06 Installation, testing and commissioning of valves and sluice gates	No	6		
	505,00	<b><u>OPERATION OF POTABLE WATER WORKS</u></b>				
DH 06.01	505,01	.01 Registration of a water use				
		.01 Obtain all relevant information from different authorities, complete and dispatch the application forms, and ensure that registration is completed on behalf of the Department of Public Works	No	1		
DH 06.02	505,02	.02 Environmental impact assessment (EIA)				
		.01 Pre-application consultation, submit application and plan of study for scoping and the scoping report	No	1		
DH 06.03	505,03	.03 Environmental impact assessment (EIA)				
		.01 Plan of study for environmental impact report	No	1		
DH 06.04	505,04	.04 Environmental management plan (EMP) during repair and operation	No	2		
	506,00	<b><u>OPERATING AND MAINTENANCE MANUALS:</u></b>				
SB.01	506,01	<b>Compile and supply a complete set of operating and maintenance manuals:</b>				
		.01 Bulk water supply system : update existing O & M Manual - Golela	Sum	1		
		.02 Bulk water supply system: update existing O & M Manual - Onverwacht	Sum	1		
	507,00	<b><u>WATER DISTRIBUTION NETWORKS</u></b>				
CE.01	507,01	<b>Water distribution pipelines:</b>				
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CE.01.01		.01 Repair of existing pipelines:				
		.01 Distribution pipes	m	76		
		.02 House connections	m	55		
		.03 Irrigation pipes	m	30		
CE.01.02	507,02	.02 Provision of materials for repair of existing:				
		.01 uPVC class 12 pressure pipes to SANS 966 with integral "LYNG" mechanical rubber ring joints:				
		.02 20 mm dia	m	40		
		.03 32 mm dia	m	40		
		.04 50 mm dia	m	40		
		.05 60 mm dia	m	40		
		.06 75 mm dia.	m	45		
		.07 110 mm dia.	m	55		
		.08 160 mm dia.	m	35		
		.02 Galvanised mild steel (GMS) medium duty quality pipes to SANS 62 with flanged couplings. Normalised pipes:				
		.01 20 mm dia.	m	35		
		.02 50 mm dia.	m	35		
		.03 80 mm dia.	m	22		
		.03 HDPE - PE100 Class 10 pressure pipes, ISO 4427:				
		.01 32 mm dia.	m	45		
		.02 50 mm dia.	m	45		
		.04 Saddles with standard drilling and 25 mm BSP tapping for connections to supply lines:				
		.01 from 32mm up to 55mm dia	No	4		
		.02 from 55mm up to 76 mm dia.	No	7		
		.03 from 76mm up to 160 mm dia.	No	3		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
		.05 Standard bends of all degrees and all types completely fitted in pipes of all types with inside diameters of:				
		.01 between 39 mm and 55 mm	No	5		
		.02 between 55 mm and 76 mm	No	6		
		.03 between 76 mm and 99 mm	No	7		
		.04 between 99 mm and 130 mm	No	4		
		.05 between 130 mm and 180 mm	No	4		
		.06 Standard equal tees, reducing tees (largest connection pipe determine payment classification) and cross pieces of all types completely fitted in pipes of all types with inside diameters of:				
		.01 between 39 mm and 55 mm	No	5		
		.02 between 55 mm and 76 mm	No	8		
		.03 between 76 mm and 99 mm	No	8		
		.04 between 99 mm and 130 mm	No	4		
		.07 Standard reducers (largest connection pipe determine payment classification) of all types completely fitted in pipes of all types with inside diameters of:				
		.01 between 55 mm and 76 mm	No	3		
		.02 between 76 mm and 99 mm	No	3		
		.03 between 99 mm and 130 mm	No	2		
		.08 Standard couplings, repair couplings, flange adapters and other adapters (to connect different types of pipes and fittings) of all types completely fitted in pipes of all types with inside diameters of:				
		.01 between 76 mm and 99 mm	No	6		
		.02 between 99 mm and 130 mm	No	5		
		.03 between 130 mm and 180 mm	No	4		
		.09 Ball-O-Stop valves, screwed or socketed completely fitted in pipes:				
		.10 with diameter less than 25 mm dia	number	4		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CE.08.02	507,03	<b>Cleaning of pipeline</b>				
		.01 Cleaning of deposits in pipeline by mechanical means for pipes of diameters of:				
		.01 Up to 100 mm dia	m	210		
CE.08.02		.02 Scouring of pipeline to remove trapped debris for pipes of diameters of:				
		.01 Up to 100 mm dia	m	210		
		.02 101 to 200 mm dia	m	100		
CE.08.03	507,04	<b>Repair of fittings</b>				
		.01 Servicing of all types of valves in pipes with inside diameters of:				
		.01 less than 39 mm	number	3		
		.02 more than 39 mm	number	3		
CE.08.04	507,05	<b>Repair of structures</b>				
		.01 Construction of Manhole				
		.01 1000 x1000 mandhole complete with plastering, cast iron manhole cover, etc.	number	5		
		.02 Cleaning of existing manholes, chambers and other structures	no	2		
		.03 Overhaul on material for haul in excess of 1,0 km:				
		.01 Excavated material to spoil	m <sup>3</sup> .km	20		
CE.08.04		.04 .02 Concrete	m <sup>3</sup>	3		
		.05 Sample testing				
		.01 Extract sample to determine lime				
		(i) Up to 100 mm dia	number	4		
		(ii) 101 to 200 mm dia	number	4		
CE.08.05	507,06	<b>Tests and inspection of repair work</b>				
		.01 Pressure testing				
		.01 Pressure test pipeline in sections of pipes with diameters of:				
		(i) Up to 100 mm dia	m	1200		
Carried forward						



## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SANS 1200 C	508,00	<b><u>PLASTIC/STEEL TANKS</u></b>				
	508,01	<b>Site clearance and grubbing:</b>				
	8.2.1	.01 Clearing and grubbing	m <sup>2</sup>	16		
	8.3.2 (a)	<b>Excavation:</b>				
		.01 Excavate in all materials and use for backfill:				
		.01 Foundation for tank	m <sup>3</sup>	2		
	8.3.2 (a)	.02 Excavate in all materials and dispose of within 1 km from site	m <sup>3</sup>	3		
	8.3.2 (a)	<b>508,02 Importation of materials:</b>				
		.01 Extra over for imporation of G5 material from borrow pit within 10 km from site	m <sup>3</sup>	3		
	508,03	<b>Formwork:</b>				
SANS 1200G	8.2.1	.01 Vertical, rough	m <sup>2</sup>	25		
	508,04	<b>Reinforcement:</b>				
	8.3.1	.01 High tensile steel	kg	200		
	8.3.2	.02 Mesh 245	kg	200		
	8.4.3	<b>508,05 Structural concrete:</b>				
PCI.02		.01 Class 25 Mpa:				
		.01 Foundation for tank	m <sup>3</sup>	8		
PCI.02	508,06	<b>Lightning protection for storage tank:</b>				
		.01 Plastic/steel tanks and stand	Sum	1		
PCI.03	508,07	<b>Sterilization of storage tank:</b>				
		.01 Plastic/steel tank	No	1		
PCI.04	508,08	<b>Testing for water tightness of storage tank:</b>				
		.01 Plastic/steel tank	No	1		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PCI.06	508,09	Installation of hydraulic operated floater control valve:				
		.01 50mm angle type	No	2		
	508,10	Decommission and remove existing plastic/steel water tanks and steel structure and keep safe on site	Sum	1		
	508,11	Move and re-install existing plastic/steel water tanks and steel structure	Sum	1		
	508,00	<b><u>PIPES AND FITTINGS</u></b>				
SANS 1200L 8.2.1	508,12	Supply, lay and bed pipes complete with couplings, including testing:				
		.01 32mm dia. HDPE pipe Class 10, jointed with Plasson high compression fittings	m	75		
		.02 63mm dia. HDPE pipe Class 10, jointed with Plasson high compression fittings	m	66		
		.03 75mm dia. UPVC pipe Class 12, with mechanical rubber ring	m	65		
		.04 110mm dia. UPVC pipe Class 12, with mechanical rubber ring	m	77		
SANS 1200L 8.2.2	508,13	Extra over for supplying, laying and bedding of fittings complete with couplings as per pipe and fittings schedule:				
		.01 32mm dia. polypropylene, high-grade copolymer high compression adaptor for GMS	No	3		
		.02 32mm dia polypropylene, high-grade copolymer high compression couplings	No	5		
		.03 32mm dia polypropylene, high-grade copolymer high compression elbows	No	7		
		.04 64mm dia. polypropylene, high-grade copolymer high compression adaptor for GMS	No	3		
		.05 64mm dia polypropylene, high-grade copolymer high compression couplings	No	5		
Carried forward						

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
SANS 1200L 8.2.2	508,14	.06 64mm dia polypropylene, high-grade copolymer high compression elbows	No	5			
		.07 63mm x 32mm x 63mm dia polypropylene, high-grade copolymer high compression	No	3			
		.08 75mm dia Class16 CI bends for uPVC pipes of all degrees	No	5			
		.09 110mm dia Class16 CI bends for uPVC pipes of all degrees	No	3			
		.10 75mm dia Class 16 uPVC bends of all degrees	No	3			
		.11 75mm dia Class 16 uPVC bends of all degrees	No	6			
		.12 110mm dia Class16 uPVC bends of all degrees	No	3			
		.13 75mm dia Class 16 UPVC tees of all degrees	No	7			
		.14 110mm dia Class16 uPVC tees of all degrees	No	3			
		.15 75mm-63mm dia Class 16 uPVC reducing tees of all degrees	No	3			
		.16 110mm - 75mm dia Class16 uPVC reducing tees of all degrees	No	5			
		General: Pump and Equipment					
		.01 Detailed inspection and testing of components	number	2			
		.02 Repair of Pumping Equipment	number	2			
		.03 Commissioning	number	2			
		CE.01.03		.04 Replacement of manhole covers, grid inlets,			
.01 SANS 558 Type 8B - Medium duty class size 600 x 600mm square manhole cover and frame, double sealed type	No			3			
.02 SANS 558 Type 9A - Light duty class size 600 x 600mm square manhole cover and frame, single sealed type	No			3			
.03 SANS 558 Type 9E - Light duty class size 900 x 600mm rectangular manhole cover and frame, single sealed type	No			3			
Carried forward							

## SCHEDULE NO 3.4 INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
FN.11.03		.05 Decommissioning and removal of pumping equipment Pumps and electrical motors at purification works (Speck BHS 1.1kW)	No	2		
FN.11.04		.06 Reconditioning of pumping equipment Pumps and electrical motors at purification works (Speck BHS 1.1kW)	No	2		
FN.11.02		.07 Installation, testing and commissioning of pumping equipment purification works (Speck BHS 1.1kW)	No	2		
	509,00	<b><u>Light Commercial RO Unit</u></b>				
	509,01	.01 Supply and install light commercial R0200G/750lt/day/24hr production, 6 stage - 3 stage pre RO filtration and two 100GDPRO Membranes and one RO Booster Pump and one Post Carbon Filter, one 20G/751t RO water pressure tank complete with dispensing tap and all associated plumbing fittings in order to connect the unit.	No	4		
		.02 Supply spares for reverse osmosis equipment:				
		.01 20G RO Pressure Tank - 751t Capacity	No	4		
		.02 SED 10' 5 Micron Filter Cartridges	No	48		
		.03 10' Carbon Block Filter Cartridge	No	12		
		.04 RO membranes 11 OGDPRO-Filmtec	No	4		
	510,00	<b><u>DRINKING FOUNTAINS</u></b>				
PAA.05	510,01	.01 Supply and install drinking fountain complete with base, fibreglass basin and drinking fountain pillar cock with adjustable flow nozzle	No	2		
PAA.05	510,02	.02 15mm BSP male brass drinking fountain pillarcock, with adjustable nozzle flow control, hygienic protective plate	No	2		
PAA.05	510,03	.03 Demand pushbutton bib tap with a flow straightener	No	2		
	511,00	<b><u>BULK WATER SUPPLY EQUIPMENT</u></b>				
DB 11	511,01	<b>Dual media pressure filters</b>				
		<b>Supply, Installing, Testing, Commissioning and deliver filter equipment</b>				
		.01 Filter lid	No	2		
		.02 Replace filter media. Quartzitic 0.4 - 08mm	m³	2		
		.03 Replace antristite 0.8 - 1.6mm effective size	m³	2		
		.04 Filter lid O-rings	No	3		
		.05 25mm Air release valve	No	1		
	TOTAL	<b>SCHEDULE 3.4 : INSTALLATION C4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

## SCHEDULE NO 3.5 INSTALLATION C5: WASTEWATER AND SEWER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CF.08.01	600,00	<b><u>WASTEWATER AND SEWER NETWORKS</u></b>				
	600,01	<b>Sewerage networks:</b>				
		.01 Repair of existing pipelines	m	800		
		.02 Provision of materials for repair:				
		.01 Plain ended vitrified clay pipes including "Vitrosleeve" couplings on class B bed:				
		.01 100 mm dia.	m	220		
		.02 150 mm dia.	m	230		
		.02 uPVC class 9 pressure pipes to SABS 966 & 791 with integral "LYNG" mechanical rubber ring joints:				
		.01 75 mm dia	m	120		
		.02 90 mm dia	m	200		
		.03 110 mm dia	m	200		
		.04 160 mm dia	m	200		
		.03 Replacement of manhole covers, grid inlets,				
		.01 SABS 558 Type 2A - covers, grids, etc:				
		.01 Maximum dimension up to and including 300 mm	No	3		
		.02 Maximum dimension 301 mm to 600 mm	No	3		
		.03 Wa SABS 558 Type 2A - frames only for covers, grids, etc:				
Carried forward						

## SCHEDULE NO 3.5 INSTALLATION C5: WASTEWATER AND SEWER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CF.08.02	600,02	.01 Maximum dimension up to and including 300 mm	No	3		
		.02 Maximum dimension 301 mm to 600 mm	No	1		
		.04 Manholes and inspection chambers:				
		.01 Raising or lowering of existing manholes or inspection chambers of all types by up to 0,5 m	No	1		
		<b>Cleaning of sewerage network:</b>				
		.01 Mechanical cleaning of sewer pipes and structures with internal diameters of:				
		.01 Up to 150 mm	m	150		
		.02 Chemical cleaning of sewer pipes and structures with internal diameters of:				
		.01 Up to 150 mm	m	50		
		.03 Demolition and removal of damaged existing structures:				
EG 06.01	600,03	.01 Plain concrete	m <sup>3</sup>	2		
		.02 Reinforced concrete	m <sup>3</sup>	2		
		.03 Kerbing and channelling	m	15		
		.04 Pipework	m	25		
EG 06.01	600,03	<b>Cleaning out, inspect and repair septic tanks:</b>				
		.01 Cleaning out septic tanks and dispose of contents approximately 70km off-site (provide certificate)	m <sup>3</sup>	27		
EG 06.03	600,04	.02 Cleaning out of septic tanks and dispose of contents approximately 110km off-site (provide certificate)	m <sup>3</sup>	27		
		<b>Inletworks constructed according to SANS 10400-PP10</b>				
		.01 Construction of a concrete septic tank with dimensions of 7,0 m long x 3.0 m wide x 3,5 m and concrete inletworks, with dimensions of 5,0 m long x 1.2 m wide x 1 m deep as per drawing including screen, flume and flow meters - as per drawing	No	1		
Carried forward						

## SCHEDULE NO 3.5 INSTALLATION C5: WASTEWATER AND SEWER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SABS 1200 DA 8,3  8.3.2	601,00	<b><u>EXCAVATION AND MATERIAL</u></b>				
	601,01	<b>Repair existing installations:</b>				
		.01 Excavate in all materials and use for backfill or embankment or dispose	m <sup>3</sup>	20		
		.02 Extra over item .01 above for				
		.01 Intermediate excavation	m <sup>3</sup>	32		
		.02 Hard rock excavation	m <sup>3</sup>	7		
		.03 Importing and placing of 65-125mm rock fill from commercial sources	m <sup>3</sup>	3		
	602,00	<b><u>EXCAVATION, BEDDING AND BACKFILL</u></b>				
	602,01	<b>Septic tank and Inletwork installation</b>				
		.01 Excavations, bedding and backfilling:				
(LI)		.01 Excavate in all materials	m <sup>3</sup>	100		
(LI)		.02 Backfilling and compacting to 93% modified AASHTO density with selected material	m <sup>3</sup>	100		
SABS 1200 G 8,4 8.4.3	603,00	<b><u>CONCRETE (STRUCTURAL)</u></b>				
	603,01	<b>Strength concrete:</b>				
		.01 Class 25 MPa concrete in floors	m <sup>3</sup>	12		
		.02 Class 25 MPa concrete in walls	m <sup>3</sup>	12		
		.03 Class 25 MPa concrete in strip footings	m <sup>3</sup>	5		
CE.05	603,02	<b>Repair of structures</b>				
		.01 Demolition and removal of damaged existing				
		.01 Plain concrete	m <sup>3</sup>	12		
		.02 Brickwork	m <sup>2</sup>	9		
Carried forward						

## SCHEDULE NO 3.5 INSTALLATION C5: WASTEWATER AND SEWER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
1200 G	604,01	.02 Cleaning of existing manholes, chambers and	m <sup>3</sup>	11		
		.03 Repair of structures and anchor/trust blocks:				
		.01 Brickwork (230 mm)	m <sup>2</sup>	25		
		.02 Concrete - Class 25	m <sup>3</sup>	16		
8.2.5	604,02	<b>Rough form work</b>				
		.01 Wall below ground	m <sup>2</sup>	20		
		<b>Smooth form work</b>				
		.01 Smooth vertical walls inside	m <sup>2</sup>	20		
SABS 1200 H	604,03	<b>Narrow Widths not exceeding 300mm:</b>				
		.01 Floors, etc	m	12		
		<b>605,00 CONCRETE REINFORCEMENT</b>				
		<b>605,01 High-tensile steel welded mesh and steel bars:</b>				
EB	606,00	.01 Ref No 193 mesh in concrete	m <sup>2</sup>	20		
		.02 Ref No 245 mesh in concrete	m <sup>2</sup>	20		
		.03 Y12 high tensile steel bars	m	20		
		<b>GENERAL PUMP AND EQUIPMENT</b>				
EB.01		.01 Supply and delivery of pumping equipment:				
		i) Agri submissible Sludge pumps duty and standby at Golela POE	No	2		
		ii) Centrifugal pumps at golela POE duty and	No	4		
		iii) Centrifugal pumps at Onverwacht POE duty and standby	No	2		
EB.02		.02 Installation, testing and commissioning of pumping equipment	No	3		
EB.03		.03 Decommissioning and removal of pumping equipment	No	3		
EB.04		.04 Service/reconditioning of pumping equipment	No	3		
EB.05		.05 Repair of pumping equipment	No	2		
EB.06		.06 Reconditioning of float level switches or other level probes	No	2		
Carried forward						



## SCHEDULE NO 3.5 INSTALLATION C5: WASTEWATER AND SEWER NETWORKS

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
EB.07		.07 Cleaning and removal of redundant equipment from waste water pump sumps, pump rooms and related infrastructure	Sum	2		
EB.08		.08 Reconditioning of mcc boards or other electricity boards	No	1		
EB.09		.09 Pumping out, cleaning and reconditioning of wastewater pump sumps and related infrastructure				
EB.10		.10 Replace mcc enclosure	No	2		
EB.11		.11 Supply, installation, testing and commissioning of mcc boards or other electricity boards	No	2		
EB.12		.12 Supply, installation, testing and commissioning of mechanical equipment	No	3		
EB.13		.13 Decommissioning, servicing, testing, recommissioning and calibration of existing flow measuring equipment	No	4		
EB.14		<b><u>REPAIR OF PIPEWORKS AND VALVES</u></b>				
		i) 80mm Non Return valves at Golela POE	No	4		
		ii) 80mm isolation valves at Golela POE	No	2		
		iii 80mm Upvc pipe at Golela POE	m	300		
		vi) 250mm Upvc pipe at Golela from sludge pump	m	350		
		iv) 110mm uPVC pipe at Onverwacht POE	m	250		
EC	607,00	<b><u>SEDIMENTATION TANKS</u></b>				
EC 07.01		.01 Decommissioning of settling tanks (clarifiers) and equipment	No	24		
EC 07.03		.02 Decommissioning and removal of return activated sludge unit and equipment	No	1		
EC 07.04		.03 Reconditioning and commissioning of return activated sludge units	Sum	1		
EC 07.05		.04 Decommissioning and repair/reconditioning of valves and sluice gates	No	2		
EC 07.06		.05 Installation, testing and commissioning of valves and sluice gates	No	2		
	608,00	<b><u>OPERATING AND MAINTENANCE MANUALS:</u></b>				
SB.01	608,01	<b>Compile and supply a complete set of operating and maintenance manuals:</b>				
		.01 Waste water system : update existing O & M Manual - Golela	Sum	1		
		.02 Waste water supply system: update existing O & M Manual - Onverwacht	Sum	1		
	<b>TOTAL</b>	<b>SCHEDULE 3.5 : INSTALLATION C5: WASTEWATER AND SEWER NETWORKS - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE****CIVIL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
CA.01	700,00	<b><u>ROADS AND STORM WATER DRAINAGE</u></b>				
	700,01	<b>Repair of gravel wearing course, gravel shoulders and paving:</b>				
		.01 Ripping, redistributing and compacting:				
		.01 Ripping, redistributing and compacting to a density of 93% of modified AASHTO density with 4% cement	m <sup>3</sup>	50		
		.02 Importing, placing and compacting material from commercial sources to a density of 93% of modified AASHTO	m <sup>3</sup>	15		
		.02 Backfilling and reinstatement of pavement				
		.01 Selected layers compacted to 93% of modified AASHTO density with 4% cement	m <sup>3</sup>	40		
		.02 Cement stabilized subbase layers compacted to 95% of modified AASHTO density with 4% cement	m <sup>3</sup>	15		
		.03 Cement stabilized base layers compacted to 97% modified AASHTO density with 4% cement	m <sup>3</sup>	10		
		.03 Cast in situ concrete and formwork in edge beams, intermediate beams and kerbing:				
		.01 Class 30 Mpa concrete	m <sup>3</sup>	8		
		.04 Steel reinforcement in edge beams, intermediate beams and kerbing:				
		.01 Mild steel bars	t	1		
		.02 High-tensile steel bars	t	1		
		.05 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>	1 800		
		.02 SABS approved 80mm, Class 35 Mpa interlocking grey concrete paving blocks for areas carrying pedestrian traffic only	m <sup>2</sup>	200		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CA.06	700,02	<b>Repair of existing concrete block paving:</b>				
		.01 Removal of existing concrete block paving from site	m <sup>2</sup>	1 600		
		.02 Reinstall existing concrete block paving	m <sup>2</sup>	1 600		
		.03 Break out, hack off and remove existing concrete edge beams and storm water structures	m <sup>3</sup>	8		
CA.06.02	700,03	<b>Surface repairs of concrete pavements</b>				
		.01 Patching of concrete:				
		.01 150 mm thickness	m <sup>2</sup>	150		
		.02 Cement stabilized subbase layers	m <sup>3</sup>	25		
CA.06.02		.03 Overhaul on surplus material	m <sup>3</sup> .km	35		
CA.06.03.06	700,04	<b>Repair of kerbing</b>				
		.01 Patching of kerbs	m	80		
		.02 Reinstalling pre-cast kerbs	m	55		
		.03 Replacing of kerbs				
		.01 Semi-mountable kerbs similar to existing	m	80		
		.02 Mountable kerbs similar to existing	m	80		
		.03 Barrier kerbs similar to existing undamaged barrier kerbs	m	55		
	701,00	<b><u>EXISTING ROADS AT THE RESIDENTIAL AREA</u></b>				
		<b><u>BITUMINOUS PAVEMENTS</u></b>				
	701,01	<b>Pavement layers and asphalt surface repair:</b>				
CA.03.01		.01 Excavation in existing pavements for patching	m <sup>3</sup>	25		
COLTO		.02 Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m <sup>3</sup> -km	200		
COLTO		.03 Sawing or cutting asphalt or cemented pavement layers:				
		.01 Cutting asphalt using a mechanical sawing machine	m	100		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CA.03.02	701.01	.04 Backfilling of excavations for patching with:				
		.01 Cement-stabilized gravel excavated from the existing pavement (areas up to and including 10 m <sup>2</sup> )	m <sup>3</sup>	25		
		.02 Cement-stabilized gravel excavated from the existing pavement (areas larger than 10 m <sup>2</sup> up to and including 50 m <sup>2</sup> )	m <sup>3</sup>	25		
		.03 Asphalt surfacing (continuously graded medium; transport measured under overhaul)	t	1		
CA.04	701.02	<b>Surface treatment of surfaced roads:</b>				
		.01 Trimming the edges and edge breaks of the existing surfacing	m	50		
		.02 Pothole repair using hot-mix continuously graded asphalt (transport measured under overhaul)	t	1		
CA.04		.03 Repairing edge breaks using hot-mix continuously graded asphalt - medium grade (transport measured under overhaul)	t	1		
CA.04.06	701.03	<b>Cleaning of cracks with compressed air</b>	km	1		
CA.04.07	701.04	<b>Applying bituminous binders and herbicides for sealing cracks:</b>				
		.01 Anionic stable-grade emulsion mixed with synthetic modifiers	ℓ	100		
		.02 Coarse grade slurry mixed in concrete mixer and applied by hand	m <sup>3</sup>	2		
	701.05	<b>Single seals:</b>				
COLTO 44.01		.01 Single seals (grade 1 aggregate) using 9,5 mm aggregate (80/100 pen grade bitumen @ 1,0 ℓ/m <sup>2</sup> )	m <sup>2</sup>	150		
COLTO 44.02		.02 Bituminous binder variations:				
		.01 Road grade B8 (80/100 pen grade) bitumen	ℓ	100		
COLTO 44.03		.03 Aggregate variations:				
		.01 9,5 mm aggregate	m <sup>3</sup>	2		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
COLTO 44.04	701.05	.04 Application of fog spray:				
		.01 30% spray-grade emulsion	ℓ	100		
COLTO 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>	10		
COLTO 48.03	701.06	<b>Slurry seal:</b>				
		.01 Texture correction slurry applied by hand (COLTO Table 4302/12)	m <sup>3</sup>	2		
	702.00	<b><u>CONCRETE BLOCK PAVEMENTS AT THE RESIDENTIAL AREA</u></b>				
CA.05.01	702.01	<b>Remove concrete paving blocks:</b>				
		.01 Discard paving blocks	m <sup>2</sup>	250		
		.02 Stockpile and re-use paving blocks	m <sup>2</sup>	100		
CA.05.04	702.02	<b>Cast in situ concrete and formwork in edge beams, intermediate beams and kerbing:</b>				
		.01 Class 30 concrete	m <sup>3</sup>	3		
CA.05.05	702.03	<b>Breaking up and removing concrete edge beams, intermediate beams, etc.</b>	m <sup>3</sup>	2		
CA.05.06	702.04	<b>Steel reinforcement in edge beams, intermediate beams and kerbing:</b>				
		.01 Mild steel bars	t	1		
CA.05.07	702.05	<b>Concrete block paving:</b>				
		.01 Class, type and thickness similar to existing pavement for areas carrying vehicular traffic (80 mm interlocking paving blocks (grey) on 20 mm bedding sand)	m <sup>2</sup>	550		
		.02 Re-use stockpiled block paving (80 mm interlocking paving blocks on 20 mm bedding sand)	m <sup>2</sup>	150		
CA.05.01	702.06	<b>Repair of existing concrete block paving:</b>				
		.01 Removal of existing concrete block paving from site	m <sup>2</sup>	30		
		.02 Stockpile and re-use paving blocks	m <sup>2</sup>	50		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CA.06	702,07	<b>Repair of kerbing:</b>				
		.01 Patching of kerbs	m	150		
		.02 Reinstalling pre-cast kerbs	m	35		
		.03 Replacing of kerbs				
		.01 Semi-mountable kerbs similar to existing	m	25		
		.02 Mountable kerbs similar to existing	m	25		
		.03 Barrier kerbs similar to existing undamaged barrier kerbs	m	25		
	703,00	<b><u>GRAVEL SHOULDERS AND WEARING COURSE AT THE RESIDENTIAL AREA</u></b>				
CA.01.02	703,01	<b>Gravel shoulders constructed from gravel from commercial sources:</b>				
		.01 Compacted to 93% of modified AASHTO density (150 mm compacted layer thickness)	m <sup>3</sup>	25		
COLTO		.02 Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m <sup>3</sup> -km	15		
	704,00	<b><u>ANCILLARY ITEMS</u></b>				
CA.06	704,01	<b>Repair of kerbing:</b>				
		.01 Patching of kerbs	m	100		
		.02 Replacing of kerbs:				
		.01 Barrier kerbs similar to existing undamaged barrier kerbs	m	100		
		.02 Semi-mountable kerbs (SANS Fig.7)	m	100		
		.03 Removal of kerbs	m	100		
	705,00	<b><u>ROAD TRAFFIC SIGNS AND ROAD MARKINGS</u></b>				
CA.07	705,01	Erection and repair of road traffic signs and traffic- control devices				
		.01 Erection or reinstatement of road sign boards				
		.01 Area not exceeding 2 m <sup>2</sup>	m <sup>2</sup>	5		
		.02 Area exceeding 2m <sup>2</sup>	m <sup>2</sup>	3		
		.02 Road sign supports (overhead road sign				
		.01 Steel tubing of 76 mm diameter and 3	m	25		
Carried forward						

## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
CA.07	705,02	.03 Excavation and backfilling for road sign	m³	3			
		.04 Extra over item CA.07.03 for cement-treated soil backfill	m³	3			
		.05 Hazard plates (600 x 150 mm)	No	5			
		.06 Repair of road sign faces	m²	2			
		<b>Chemical Control of Vegetation &amp; Eradiction of Undesired Vegetation</b>					
		.01 Chemical control of vegetation (the tenderer shall state the method he intends to use):	m²	350			
	705,03	.02 Eradication of undesirable vegetation (The tenderer shall state the method he intends to use):	m²	350			
		<b>Supply and installation of sign boards:</b>					
		.01 .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			
		.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			
.03 1.4mm thick pre-painted galvanised steel road signs less than 1.5m²		m²	15				
CA.07		705,04	.04 Road sign supports (overhead road sign structures excluded):				
			.01 Steel tubing of 76 mm diameter and 3 mm wall thickness	m	5		
			.02 Galvanized D-profile steel tubing of 3 mm wall thickness	m	5		
	.05 Excavation and backfilling for road sign		m³	5			
	.06 Extra over item .05 for cement-treated soil backfill		m³	6			
	.07 Hazard plates (600 x 150 mm)		No	6			
.08 Repair of road sign faces	m²		3				
Carried forward							

## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CA.08	705,05	Road markings:				
		.01 Ret				
		.01 Longitudinal lines:				
		.01 White lines (broken or unbroken) - 100 mm width	m	600		
		.02 Yellow lines (broken or unbroken) - 100 mm width	m	600		
		.03 Black lines (broken or unbroken) - 100 mm width	m	15		
		.02 Transverse lines and other markings:				
		.01 Broken or unbroken lines, white, red or yellow	m <sup>2</sup>	55		
		.02 Lettering and symbols, white, red or yellow, repainting existing markings	m <sup>2</sup>	55		
		.03 Traffic island markings, white or yellow repainting existing markings	m <sup>2</sup>	55		
		.02 Setting out and pre-marking of lines (excluding traffic island markings, lettering and symbols)	km	1		
		.03 Painting of concrete kerbs by hand using road marking paint, yellow and white	m <sup>2</sup>	100		
CB.01	706,00	<u>STORMWATER DRAINAGE</u>				
	706,01	.01 Replacement of manhole cover, grid inlets, etc.				
		.01 SABS 558 Type 4 - covers, grids etc.				
		.01 Maximum dimension up to including 300mm	No	1		
		.02 Maximum dimension 300 mm to 600 mm	No	1		
		.02 SABS 558 Type 4 - frames only for cover, grids etc.				
		.01 Maximum dimension up to including 300mm	No	1		
		.02 Maximum dimension 300 mm to 600 mm	No	1		
		.03 SABS 558 Type 2A - covers, grids,etc.				
		.01 Maximum demension up to including 300mm	No	1		
		.02 Maximum demnsion 301 mm to 600 mm	No	1		
		.03 Maximum demension 601 mm to 900 mm	No	1		
Carried forward						



## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
CB.03	706,02	.04 SABS 558 Type 2A - frames only for covers, grids, etc.					
		.01 Maximum demension up to including 300mm	No	1			
		.02 Maximum demension 301 mm to 600 mm	No	1			
		.03 Maximum demension 601 mm to 900 mm	No	1			
		.04 Stormwater grid inlet and frame 1 700 mm x 2 200 mm, installed in existing concrete stormwater channel	No	1			
		<b>CONCRETE CONSTRUCTION AND REPAIR AT ONVERWACHT INLETWORKS</b>					
		.01 Excavation in					
		.01 Soft Material	m³	5			
		.02 Hand Material	m³	12			
		.02 Cast in situ concrete					
		.01 Class 20 concrete	m³	5			
		.02 Class 30 concrete	m³	5			
		.03 Backfill below channels	m³	7			
		.03 Steel reinforcement					
CB .04	706,03	.01 Welded steel mech ref. 193	kg	200			
		.04 Demolition and removal of damaged existing structures					
		.01 Plain concrete	m³	2			
		.02 Reinforced concrete	m³	2			
		.05 Overhaul on material for haut in excess of 1,0 km					
		.01 Excavated material to spool	m³ .km	3			
		.02 Exsiting structures demolished	m³ .km	3			
		<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			
		.02 1,0 m up to and including 2,0 m	m	20			
		.02 Overhaul on material for hualk in excess of 1.0 km	m³ .km	20			
		Carried forward					

## SCHEDULE NO 3.6: INSTALLATION C6 : ROADS AND STORM WATER DRAINAGE

CIVIL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
CB .02	707,00	<b><u>CLEANING OF PREFABRICATED CULVERTS</u></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 demension of				
		.01 Up to and including 500 mm	m	30		
		.02 501 mm to 750 mm	m	20		
CB .06	707,01	<b>REPAIR AND CONSTRUCTION TO EXISITING BRICKWORK INLET STRUCTURES</b>				
		.01 Demolition and removal of exciting structures	m³	3		
		.02 Repair of brickwork inlet structures	No	6		
		.03 Reconstruction of brickwork inlet structures	No	4		
CK .06	708,00	<b><u>PATENTED EARTH RETAINING STRUCTURES</u></b>				
	708,01	Repair work to exsiting structure				
		.01 Repairs to exsiting precast concrete block retaining walls	m²	15		
	708,02	New construction				
		.01 Supply and install precast concrete blocks similar existing enviro blocks	m²	5		
		.02 Concrete bases for earth retaingng systems (20 MP's concrete)	m²	2		
	708,03	Stone-pitching				
		.01 Pitching (light)	m²	20		
		.02 Pitching (medium)	m²	10		
		708,04	High security traffic barrier consisting of extruded aluminium tubing powder coated in white with red reflective tape including boom break away system and lockable cabinet powder coated in white with red reflective tape capable of opening during power failures			
.01 Up to 7 m in width	No		2			
.02 3 -5 m Aluminum boom poles	No		2			
.03 5 - 6 m Aluminum boom poles	No		3			
Regravelling of 1.8km access road at Onverwacht	Sum		1			
	TOTAL	SCHEDULE 3.6 : INSTALLATION C6: ROADS AND STORM WATER DRAINAGE - CARRIED TO SUMMARY:				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB**      **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

**SUMMARY OF BILL OF QUANTITIES: ELECTRICAL REPAIR WORK**

**ELECTRICAL  
REPAIR WORK**

**Golela Port of Entry**

SCHEDULE INSTALATION E1: GENERAL: TOOLS & SPARES	R _____
SCHEDULE INSTALATION E2: BUILDING ELECTRICAL	R _____
SCHEDULE INSTALATION E3: STANDBY POWER SYSTEMS	R _____
SCHEDULE INSTALATION E4: EXTERNAL LIGHTING	R _____
SCHEDULE INSTALATION E5: LOW VOLTAGE SYSTEMS	R _____
SCHEDULE INSTALATION E6: UNINUTERRUPTED POWER SUPPLY (UPS)	R _____

**Onverwacht Port of Entry**

SCHEDULE INSTALATION E7: BUILDING ELECTRICAL	R _____
SCHEDULE INSTALATION E8: STANDBY POWER SYSTEMS	R _____
SCHEDULE INSTALATION E9: EXTERNAL LIGHTING	R _____
SCHEDULE INSTALATION E10: LOW VOLTAGE SYSTEMS	R _____

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**TOTAL OF SCHEDULE OF QUANTITIES - ELECTRICAL REPAIR WORK  
CARRIED TO CALCULATION OF TENDER SUM**

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SIGNED ON BEHALF OF TENDERER:

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DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 1: INSTALLATION E1: GENERAL: TOOLS & SPARES****GOLELA ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>100,00</b>	<b><u>TOOLS AND SPARES</u></b>				
	<b>101,00</b>	<b>Tools</b>				
		.01 Square Perano DB Key for each DB	No	12		
		.02 Distribution kiosk key for each DB	No	12		
	<b>102,00</b>	<b>Lamps/Luminaire</b>				
		.01 20W T8 LED tubes (Type A)	No	200		
		.02 18W T8 LED tube (Type B)	No	40		
		.03 10W LED Tubes (Type C,H,I,J,K,L &N)	No	250		
		.04 20W LED tubes(Type D)	No	2		
		.05 2ft, 20W LED tubes (Type E)	No	80		
		.06 400W HPS Lamps (Type F)	No	20		
		.07 70W metal halide bulkhead (Type G)	No	20		
		.08 32W Floodlight (Type P & O)	No	20		
		.09 279W Beka Lume Lamps (Type M)	No	70		
		.10 322W OMNIstar (Type Q)	No	10		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 1: INSTALLATION E1:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB**      **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

## SCHEDULE NO 2:      INSTALLATION E2: BUILDING ELECTRICAL

**GOLELA ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
AB.01.01	200,00	<b><u>DISTRIBUTION BOARDS</u></b>				
	200,01	<b>Service Distribution Board</b>				
		.01 Main distribution board: operational	No	21		
		.02 Sub distribution board: DB (Ablutions)	No	7		
		.03 Sub distribution board: DB (Gen Room)	No	4		
		.04 Sub distribution board: DB (Park Homes)	No	3		
	200,02	<b>Supply and Install SABS approved Main Switches (DB and Kiosks)</b>				
		.01 80 - 100A, 6kA, 1 pole	No	200		
		.02 125 - 160A, 6kA, 1 pole	No	70		
	200,03	<b>Supply and Install SABS approved circuit Breakers(DB and Kiosks)</b>				
AB.01.13		.01 45 - 63A, 6kA single pole	No	300		
		.02 80 - 125A, 6kA single pole	No	500		
		.03 125 - 160A, 6kA single pole	No	50		
AB.01.14	200,04	<b>Supply and Install SABS approved isolators</b>				
		.01 20 - 40A, 5kA single pole	No	250		
AB.01.15	200,05	<b>Supply and install contactors</b>				
		.01 15A, 3 pole	No	10		
		.02 30A, 3 pole	No	10		
AB.01.16	200,06	<b>Supply and Install Clip-in time</b>	No	10		
Carried forward						

## SCHEDULE NO 2: INSTALLATION E2: BUILDING ELECTRICAL

GOLELA ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.01.17	200,07	Supply and Install SABS approved earth leakage units				
		.01 63A double pole	No	200		
AB.01.19	200,08	Supply and install surge arrestors				
		.01 FLT 60-400	No	30		
AB.01.06	200,09	Provide padlocks				
		.01 Kiosks	No	40		
		.02 Distribution Boards	No	150		
		.03 Generator Rooms	No	4		
		.04 UPS Rooms	No	3		
	201,00	<u>LIGHTING INSTALLATION</u>				
AB.02.01	201,01	Re-Lamp luminaire				
		.01 Type A-20W LED Retrofit	No	150		
		.02 Type B-18W LED Retrofit	No	200		
		.03 Type C, H, I, J, K, L& N- LED Retrofit	No	1 500		
		.04 Type D-18W LED Retrofit	No	10		
		.05 Type E- 20W LED Retrofit	No	300		
		.06 Type F-20W LED Retrofit	No	25		
		.07 Type G-18W LED Retrofit	No	10		
		.08 Type M-13W LED Retrofit	No	350		
		.09 Type O & P	No	10		
		.10 Type Q	No	50		
Carried forward						

## SCHEDULE NO 2: INSTALLATION E2: BUILDING ELECTRICAL

GOLELA ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.02	201,02	<b>Service luminaire/annum (36 months)</b>				
		.01 Type A	No	60		
		.02 Type B	No	80		
		.03 Type C, H, I, J, K, L& N	No	600		
		.04 Type D	No	4		
		.05 Type E	No	160		
		.06 Type F	No	10		
		.07 Type G	No	4		
		.08 Type M	No	140		
		.09 Type O & P	No	4		
		.10 Type Q	No	20		
AB.02.06	201,03	<b>Replace luminaire with equivalent LED</b>				
		.01 Type A -Double 2x 24W T8 LED Luminaire	No	90		
		.02 Type B-Double 2x 18W T8 LED Luminaire	No	120		
		.03 Type C, H, I, J, K, L& N-1x 24W T8 LED	No	900		
		.04 Type D-Single 18W T8 LED Luminaire	No	6		
		.05 Type F-2x24W Vapourproof LED Luminaire	No	15		
		.06 Type G- 2x18W Vapourproof LED Luminaire	No	6		
		.07 Type M- Superlume Voltex LED Bulkhead	No	210		
		.08 Type O & P-Superlume Voltex LED Floodlight	No	6		
		.09 Type Q-Voltex Superlume LED Floodlight	No	30		
AB.02.07	201,04	<b>Service light switches</b>				
		.01 16A, single lever, one way	No	160		
		.02 16A. Two lever, one way	No	120		
		.03 16A, single lever, one way IP55 rotary type	No	10		
Carried forward						

## SCHEDULE NO 2: INSTALLATION E2: BUILDING ELECTRICAL

GOLELA ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.02.04	201,05	<b>Replace light switch</b>				
		.01 16A, single lever, one way	No	24		
		.02 16A. Two lever, one way	No	10		
		.03 16A, single lever, one way IP55 rotary type	No	10		
		.04 Supply, install dual technology occupancy	No	18		
AB.02.05	201,06	<b>Replace photocell</b>				
		.01 16A unit with bracket	No	18		
	202,00	<b><u>POWER OUTLETS</u></b>				
AB.03.07	202,01	<b>Service socket outlet</b>				
		.01 16A, Single SSO	No	104		
		.02 16A, double SSO	No	128		
		.03 16A, single SSO, IP 55	No	14		
		.04 16A, dedicated single SSO	No	88		
AB.03.01	202,02	<b>Replace socket outlet</b>				
		.01 16A, Single SSO	No	24		
		.02 16A, double SSO	No	18		
		.03 16A, single SSO, IP 55	No	16		
		.04 16A, dedicated single SSO	No	12		
		.05 16A, Single SSO power skirting	No	50		
		.06 16A, Double SSO Power Skirting	No	20		
AB.03.08	202,03	<b>Service isolator</b>				
		.01 20-40A, 5kA single pole	No	90		
AB.03.02	202,04	<b>Replace isolator</b>				
		.01 20-40A, 5kA single pole	No	30		
AB.03.14	202,05	<b>Test and service ceiling mounted fan</b>	No	13		
AB.03.17	202,06	<b>Replace ceiling mounted fan control switch</b>	No	10		
Carried forward						



## SCHEDULE NO 2: INSTALLATION E2: BUILDING ELECTRICAL

GOLELA ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.03.05	202,07	Replace power trunking channel				
		.01 O-line OL 9000. 127 x 76mm	m	160		
	203,00	<b><u>EARTHING AND BONDING</u></b>				
AB.04.02	203,01	Provide earthing and bonding				
		.01 Water purification works	No	2		
		.02 Canopies	No	4		
		.03 Carports	No	5		
		.04 Garages	No	2		
		.05 LVI's & HVI's	No	6		
		.06 Scanner/weighbridge	No	2		
		.07 Warehouse	No	2		
		.08 Ablutions	No	8		
		.09 Houses	No	165		
AB.04.02	203,02	Earthing inspection, testing and certification by a specialist contractor				
		.01 Water purification works	No	2		
		.02 Canopies	No	4		
		.03 Carports	No	5		
		.04 Garages	No	2		
		.05 LVI's & HVI's	No	6		
		.06 Scanner/weighbridge	No	1		
		.07 Warehouse	No	1		
		.08 Ablutions	No	8		
		.09 Houses	No	165		
Carried forward						

## SCHEDULE NO 2: INSTALLATION E2: BUILDING ELECTRICAL

GOLELA ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>204,00</b>	<b><u>LIGHTING PROTECTION</u></b>				
AB.03.03	<b>204,01</b>	<b>Supply and install earth electrodes</b>				
		.01 16mm $\phi$ 1.2m long CU	No	250		
AB.04.06	<b>204,02</b>	<b>Inspection of entire electrical installation (all installations)</b>	No	3		
AB.04.07	<b>204,03</b>	<b>Test lighting levels for all internal lighting installations for compliance with OHSACT of 1993 &amp; rectify if necessary</b>	Sum	1		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 2: INSTALLATION E2:</b>						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 3: INSTALLATION E3: STANDBY POWER SYSTEMS****GOLELA ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SB.02	<b>300,00</b>	<b><u>GENERAL</u></b>				
	<b>300,01</b>	<b>Compile and compile a complete set of operating and Maintenance Manuals for all installations specified</b>				
		.01 Generator system	Sum	3		
SC.12.03	<b>300,02</b>	<b>Commisioning and testing of the installation</b>				
		.01 Generator system	Sum	3		
SD.06.01	<b>300,03</b>	<b>Training on operation of installation and equipment as specified</b>				
		.01 Generator system	Sum	3		
HB 10.03.09	<b>301,00</b>	<b><u>TOOLS AND SPARES</u></b>				
		.01 Distribution Board Key	No	3		
		.02 Distribution Board face plate square key	No	3		
		.03 HD diesel oil	liters	80		
		.04 Oil funnel	No	3		
		.05 Distilled water	liters	200		
		.06 Battery hydrometer	No	3		
		.07 12V diesel jockey pump	No	3		
		.08 200mm $\phi$ diesel hose	m	20		
		.09 10mm <sup>2</sup> battery jumper cables	No	3		
		.10 Wall-mounted paper towel dispenser complete with paper cartridge	No	3		
Carried forward						

## SCHEDULE NO 3: INSTALLATION E3: STANDBY POWER SYSTEMS

GOLELA ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>302,00</b>	<b><u>GENERATOR</u></b>				
HB 10.03.01	<b>302,01</b>	Clean and repair genset plant room	No	3		
HB 10.03.02	<b>302,02</b>	Service existing standby gensets (2x major service annually)				
		.01 500kVA	No	1		
		.02 37.5kVA	No	1		
		.03 55kVA	No	1		
HB 10.03.03	<b>302,03</b>	Service diesel engine	No	3		
HB 10.03.05	<b>302,04</b>	Execute dummy load test	No	3		
HB 10.03.06	<b>302,05</b>	Service change-over switchgear	No	3		
HB 10.03.07	<b>302,06</b>	Supply and install padlocks	No	3		
	<b>302,07</b>	Supply and install new replacement generator				
		01 500KVA	No	1		
		02 37.5KVA	No	1		
		03 55KVA	No	1		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 3: INSTALLATION E3:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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## BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 4: INSTALLATION E4: EXTERNAL LIGHTING****GOLELA ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>400,00</b>	<b><u>MANUALS, TRAINING AND RECORDING</u></b>				
SB.02	<b>400,01</b>	<b>Compile and Supply a complete set of Operating and Maintenance Manuals for all installations specified</b>				
		.01 External lighting installations	Sum	3		
SD.12.03		.02 Training on operation of installation and equipment as specified	Sum	2		
SC.12.03		.03 Commissioning and testing of the installation	Sum	3		
HE 10.03(b)	<b>400,02</b>	<b>Re-lamp luminaire</b>				
		.01 Type A	No	10		
		.02 Type B	No	15		
		.03 Type C, H, I, J, K, L & N	No	15		
		.04 Type D	No	15		
		.05 Type E	No	15		
		.06 Type F	No	15		
		.07 Type G	No	10		
		.08 Type M	No	10		
		.09 Type O & P	No	10		
		.10 Type Q	No	15		
Carried forward						

## SCHEDULE NO 4: INSTALLATION E4: EXTERNAL LIGHTING

GOLELA ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HE 10.03(d)	400,03	Replace Luminaire				
		.01 Type A	No	10		
		.02 Type B	No	20		
		.03 Type C, H, I, J, K, L & N	No	20		
		.04 Type D	No	20		
		.05 Type E	No	20		
		.06 Type F	No	20		
		.07 Type G	No	20		
		.08 Type M	No	20		
		.09 Type O & P	No	20		
		.10 Type Q	No	20		
HE 09.03(h)	400,04	Replace photo cell				
		.01 16A unit with bracket	No	1		
TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 4: INSTALLATION E4:						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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BILL OF QUANTITIES

**NB      TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 5:      INSTALLATION E5: LOW VOLTAGE SYSTEMS****GOLELA ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
HA 03	<b>500,00</b>	<b><u>GENERAL</u></b>				
	<b>500,01</b>	<b>Operating and Maintenance Manuals</b>				
		.01 Obtaining of all available information, compiling, reproducing and finalising three sets of operating and Maintenance manuals as sepecified and handing over to the Engineer	Sum	3		
	<b>501,00</b>	<b><u>REPAIR WORK</u></b>				
	<b>501,01</b>	<b>All Installations</b>				
HC.12.03(d)		.01 Installation of Padlocks	No	28		
HC.12.03(a)		.02 General repairs to low voltage writing in writing panels	sum	3		
	<b>501,02</b>	<b>Service and repair distribution kiosk</b>				
HC 12.03(a)		.01 Service distribution kiosks	No	28		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 5: INSTALLATION E5:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

GOLELA AND ONVERWACHT

SCHEDULE NO 6: INSTALLATION E6: UNINUTERRUPTED POWER SUPPLY (UPS)

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>600,00</b>	<b><u>GENERAL</u></b>				
SB .02	<b>600,01</b>	<b>Compile and supply a complete set of operationing and maintenance manuals for all installations specified</b>				
		.01 UPS System	Sum	2		
SC. 12.03	<b>600,02</b>	<b>Commisioning and testing of the installation</b>				
		.01 UPS System	Sum	2		
SD .06.01	<b>600,03</b>	<b>Training on operation of installation and equipment as specified</b>				
		.01 UPS System	Sum	2		
HB 10.03.09	<b>601,00</b>	<b><u>TOOLS AND SPARES</u></b>				
		.01 UPS cabinet key	No	2		
HB 10.03.09		.02 Oil Funnel	No	1		
		.03 Distilled Water	ℓ	200		
		.04 Battery hydrometer	No	2		
	<b>602,00</b>	<b><u>UPS SYSTEM</u></b>				
HB 11.03.01	<b>602,01</b>	<b>Service UPS cabinets</b>				
		.01 Tower 160kVA Unit	No	1		
		.02 QP500 10kVA Unit 12V 7a/h	No	1		
HB 11.03.02		.03 Execute dummy load test	No	1		
Carried forward						



## SCHEDULE NO 6: INSTALLATION E6: UNINUTERRUPTED POWER SUPPLY (UPS)

ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
HB 11.03.03	602,02	<b>Replace UPS Batteries</b>				
		.01 Tower 160kVA Unity 12V 45a/h	sum	50		
		.02 QP500 10kVA Unit 12V 7a/h	sum	5		
HB 11.03.06		.03 Replace UPS battery charger card	No	2		
HB 11.03.06		.04 Replace UPS control card	No	2		
HB 11.03.06		.05 Replace UPS power supply card	No	2		
HB 11.03.06		.06 Replace UPS 32A fuses	No	6		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 6: INSTALLATION E6:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB      TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 7:      INSTALLATION E7: BUILDING ELECTRICAL****ONVERWACHT ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
AB.01.01	<b>700,00</b>	<b><u>DISTRIBUTION BOARDS</u></b>				
	<b>700,01</b>	<b>Service Distribution Board</b>				
		.01 Main distribution board: Operational	No	3		
		.02 Sub distribution board: DB (Ablusions)	No	5		
		.03 Sub distribution board: DB (Gen Room)	No	1		
		.04 Sub distribution board: DB (Housing)	No	10		
	<b>700,02</b>	<b>Supply and Install SABS approved Main Switches (DB and Kiosks)</b>				
		.01 80 - 100A , 6kA, single pole	No	15		
AB.01.13	<b>700,03</b>	<b>Supply and Install SABS approved circuit Breakers(DB and Kiosks)</b>				
		.01 45-63A, 5kA single pole	No	150		
AB.01.14	<b>700,04</b>	<b>Supply and Install SABS approved isolators</b>				
		.01 20-40A, 5kA single pole	No	19		
AB.01.15	<b>700,05</b>	<b>Supply and install contactors</b>				
		.01 15A, 3 pole	No	3		
AB.01.16	<b>700,06</b>	<b>Supply and Install Clip-in time</b>	No	1		
AB.01.17	<b>700,07</b>	<b>Supply and Install SABS approved earth leakage units</b>				
		.01 63A double pole	No	100		
AB.01.18	<b>700,08</b>	<b>Supply and install 0-30A HRC fuses</b>	No	15		
AB.01.19	<b>700,09</b>	<b>Supply and install surge arrestors</b>				
		.01 FLT 60-400	No	10		
Carried forward						

## SCHEDULE NO 7: INSTALLATION E7: BUILDING ELECTRICAL

ONVERWACHT ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.01.06	<b>700,10</b>	<b>Provide padlocks</b>				
		.01 Kiosks	No	2		
		.02 Distribution Boards	No	15		
		.03 Generator Rooms	No	1		
	<b>701,00</b>	<b><u>LIGHTING INSTALLATION</u></b>				
AB.02.01	<b>701,01</b>	<b>Re-Lamp luminaire</b>				
		.01 Type E	No	30		
		.02 Type I, N, L	No	30		
		.03 Type (P & O)	No	20		
AB.02.02	<b>701,02</b>	<b>Service luminaire</b>				
		.01 Type E	No	40		
		.02 Type I, N, L	No	30		
		.03 Type (P & O)	No	6		
AB.02.06	<b>701,03</b>	<b>Replace luminaire diffuser or lens</b>				
		.01 Type I, N, L	No	27		
		.02 Type (P & O)	No	3		
AB.02.07	<b>701,04</b>	<b>Service light switches</b>				
		.01 16A, single lever, one way	No	42		
		.02 16A. Two lever, one way	No	12		
AB.02.04	<b>701,05</b>	<b>Replace light switch</b>				
		.01 16A, single lever, one way	No	10		
		.02 16A. Two lever, one way	No	5		
		.03 Supply, install dual technology occupancy sensors	No	8		
AB.02.05	<b>701,06</b>	<b>Replace photocell</b>				
		.01 16A unit with bracket	No	1		
Carried forward						

## SCHEDULE NO 7: INSTALLATION E7: BUILDING ELECTRICAL

ONVERWACHT ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.03.07	<b>702,00</b>	<b><u>POWER OUTLETS</u></b>				
	<b>702,01</b>	<b>Service socket outlet</b>				
		.01 16A, Single SSO	No	80		
		.02 16A, double SSO	No	10		
		0.3 16A, dedicated single SSO	No	70		
AB.03.01		.04 16A, Single SSO, Power Skirting	No	15		
	<b>702,02</b>	<b>Replace socket outlet</b>				
		.01 16A, Single SSO	No	20		
		.02 16A, double SSO	No	5		
		0.3 16A, dedicated single SSO	No	30		
AB.03.08		.04 16A, Single SSO, Power Skirting	No	5		
	<b>702,03</b>	<b>Service isolator</b>				
AB.03.02		.01 20-40A, 5kA single pole	No	25		
	<b>702,04</b>	<b>Replace isolator</b>				
AB.03.14		.01 20-40A, 5kA single pole	No	5		
	<b>702,05</b>	<b>Test and service ceiling mounted fan</b>	No	9		
AB.03.17	<b>702,06</b>	<b>Replace ceiling mounted fan control switch</b>	No	9		
AB.03.05	<b>702,07</b>	<b>Replace power skirting channel</b>				
		.01 O-line OL 9000. 127 x 76mm	m	100		
Carried forward						

## SCHEDULE NO 7: INSTALLATION E7: BUILDING ELECTRICAL

ONVERWACHT ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
AB.04.02	<b>703,00</b>	<b><u>EARTHING AND BONDING</u></b>				
	<b>703,01</b>	<b>Provide earthing and bonding</b>				
		.01 Water Pumps	No	3		
		.02 Canopies	No	4		
		.03 Garages	No	5		
		.04 Warehouse	No	1		
AB.04.02		.05 Ablutions	No	4		
		.06 Houses	No	9		
	<b>703,02</b>	<b>Earthing inspection, testing and certificatification by a specialist contractor</b>				
		.01 Water Pumps	No	1		
		.02 Canopies	No	4		
		.03 Garages	No	1		
AB.03.03		.04 Warehouse	No	1		
		.05 Ablutions	No	4		
		.06 Houses	No	9		
	<b>704,00</b>	<b><u>LIGHTING PROTECTION</u></b>				
	<b>704,01</b>	<b>Supply and install earth electrodes</b>				
		.01 16mm $\phi$ 1.2m long CU	No	9		
AB.04.06		<b>Inspection of entire electrical installation (all installations)</b>	No	1		
	<b>704,02</b>	<b>Test lighting levels for all internal lighting installations for compliance with OHSACT of 1993 &amp; rectify if neccesary</b>	No	1		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 7: INSTALLATION E7:</b>						

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## BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

## SCHEDULE NO 8: INSTALLATION E8: STANDBY POWER SYSTEMS

ONVERWACHT ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>800,00</b>	<b><u>GENERAL</u></b>				
SB.02	<b>800,01</b>	<b>Compile and compile a complete set of operating and Maintenance Manuals for all installations as specified</b>				
		.01 Generator system	Sum	1		
SC.12.03	<b>800,02</b>	<b>Commisioning and testing of the installation</b>				
		.01 Generator system	Sum	1		
SD.06.01	<b>800,03</b>	<b>Training on operation of installation and equipment as specified</b>				
		.01 Generator system	Sum	1		
HB 10.03.09	<b>801,00</b>	<b><u>TOOLS AND SPARES</u></b>				
		.01 Distribution Board Key	No	1		
		.02 Distribution Board face plate square key	No	1		
		.03 HD diesel oil	ℓ	20		
		.04 Oil funnel	No	1		
		.05 Distilled water	ℓ	25		
		.06 Battery hydrometer	No	1		
		.07 12V diesel jockey pump	No	1		
		.08 200mm φ diesel hose	m	1		
		.09 10mm2 battery jumper cables	No	1		
		.10 Wall-mounted paper towel dispenser complete	No	1		
Carried forward						

## SCHEDULE NO 8: INSTALLATION E8: STANDBY POWER SYSTEMS

ONVERWACHT ELECTRICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>802,00</b>	<b><u>GENERATOR</u></b>				
HB 10.03.01	<b>802,01</b>	<b>Clean and repair genset plant room (2x Annually)</b>	No	1		
HB 10.03.02	<b>802,02</b>	<b>Service existing standby gensets (2x major service annually)</b>				
		.01 70kVA	No	1		
HB 10.03.03	<b>802,03</b>	<b>Service diesel engine (2x annually)</b>	No	1		
HB 10.03.05	<b>802,04</b>	<b>Execute dummy load test (2x annually)</b>	No	1		
HB 10.03.06	<b>802,05</b>	<b>Service change-over switchgear (2x annually)</b>	No	1		
HB 10.03.07	<b>802,06</b>	<b>Supply and install padlocks</b>	No	1		
HB 10.03.08	<b>802,07</b>	<b>Supply and install new replacement generator</b>				
		01 70KVA	No	1		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 8: INSTALLATION E8:</b>						

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BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 9: INSTALLATION E9: EXTERNAL LIGHTING****ONVERWACHT ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>900,00</b>	<b><u>MANUALS, TRAINING AND RECORDING</u></b>				
SB.02	<b>900,01</b>	<b>Compile and Supply a complete set of Operating and Maintenance Manuals for all installations specified</b>				
		.01 External lighting installations	Sum	3		
SD.12.03	<b>900,02</b>	<b>Training on operation of installation and equipment as specified</b>				
		.01 External lighting installations	Sum	1		
SC.12.03	<b>900,03</b>	<b>Commissioning and testing of the installation</b>	Sum	1		
HE 10.03(b)	<b>900,04</b>	<b>Re-lamp luminaire</b>				
		.01 Type E	No	150		
		.02 Type I, N, L	No	50		
		.03 Type (P & O)	No	50		
		.04 Type M	No	50		
		.05 Type Q	No	10		
HE 10.03(d)	<b>900,05</b>	<b>Replace Luminaire</b>				
		.01 Type I, N, L	No	10		
		.02 Type (P & O)	No	10		
		.03 Type M	No	10		
HE 09.03(h)	<b>900,06</b>	<b>Replace photo cell</b>	No	5		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 9: INSTALLATION E9:</b>						



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## BILL OF QUANTITIES

**NB** TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**SCHEDULE NO 10: INSTALLATION E10: LOW VOLTAGE SYSTEMS****ONVERWACHT ELECTRICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
HA 03	<b>1000,00</b>	<b><u>GENERAL</u></b>				
	<b>1000,01</b>	<b>Operating and Miantenance Manuals</b>				
		.01 Obtaining of all available information, compiling, reproducing and finalising three sets of operating and Maintenance manuals as sepecified and handing over to the Engineer	Sum	1		
	<b>1001,00</b>	<b><u>REPAIR WORK</u></b>				
	<b>1001,01</b>	<b>All Installations</b>				
HC.12.03(d)		.01 Installation of Padlocks	No	10		
HC.12.03(a)		.02 General repairs to low voltage writing in writing panels	sum	3		
	<b>1001,02</b>	<b>Service and repair distribution kiosk</b>				
HC 12.03 (a)		.01 Service distribution kiosks	No	5		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 10: INSTALLATION E10:</b>						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK**

**SUMMARY OF SCHEDULE OF QUANTITIES:MECHANICAL REPAIR WORK**

REPAIR WORK

SCHEDULE NO 1: INSTALATION M1: HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS

R \_\_\_\_\_

SCHEDULE NO 2: INSTALATION M2: GOLELA - INCINERATOR INSTALLATION

R \_\_\_\_\_

SCHEDULE NO 3: INSTALATION M3: CONVENTIONAL FIRE FIGHTING EQUIPMENT

R \_\_\_\_\_

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**TOTAL OF SCHEDULE OF QUANTITIES - MECHANICAL REPAIR WORK  
CARRIED TO CALCULATION OF TENDER SUM**

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R .....

SIGNED ON BEHALF OF TENDERER:

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## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 1: INSTALLATION M1: HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS****MECHANICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PFD 05.01.01	100,00	<b>GENERAL</b>				
	100,01	<b>SERVICE UNITS</b>				
		<b>.01 Midwall Split Type Air-Conditioning Units</b>				
		.01 Repair Outdoor Unit fins	No	40		
		.02 Check settings and operation of all pressure switches and reset if necessary	No	40		
		.03 Check settings and operation of thermostat	No	40		
		.04 Repair refrigerant pipe insulation	m	70		
		.05 De-rust, neutralize and touch up paint	No	40		
		.06 Replace filters	No	40		
		.07 Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	No	40		
		.08 Clean evaporator and condenser fan blades and check unbalance	No	70		
		.09 Supply and install condensate drain pipe (25mm diameter)	m	150		
		.10 Repair indoor air guide vents	No	39		
		.11 Replace compressor vibration mountings	No	34		
		.12 Supply Infrared Remote Controllers	No	60		
Carried forward						

## SCHEDULE NO 1: INSTALLATION M1: HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PFD 05.01.01	100,01	<b>.02 Self-contained Air-Conditioning Units</b>				
		.01 De-rust, neutralize and touch up paint	No	20		
		.02 Supply and install condensate drain pipe (25mm diameter)	m	80		
		.03 Repair air guide vents	No	20		
		.04 Repair controls	No	20		
		.05 Replace compressor vibration mountings	No	20		
		.06 Repair Outdoor Unit fins	No	20		
		.07 Re-gasing of regrigerant	No	20		
		<b>.03 Midwall VRV Type Air-Conditioning Units</b>				
		.01 Check settings and operation of all pressure switches and reset if necessary	No	30		
		.02 Check settings and operation of thermosta	No	10		
		.03 Repair refrigerant pipe insulation	m	10		
		.04 De-rust, neutralize and touch up paint	No	10		
		.05 Replace filters	No	30		
		.06 Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	No	30		
		.07 Clean evaporator and condenser fan blades and check unbalance	No	30		
		.08 Supply and install condensate drain pipe (25mm diameter)	m	170		
		.09 Repair air guide vents	No	40		
		.10 Replace compressor vibration mountings	No	50		
		.11 Supply Infrared Remote Controllers	No	50		
Carried forward						

## SCHEDULE NO 1: INSTALLATION M1: HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PFD 05.01.01	100,01	<b>.04 Console Air-Conditioning Units</b>				
		.01 Replace filters	No	40		
		.02 Repair controls	No	40		
		.03 De-rust, neutralize and touch up paint	No	40		
		.04 Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	No	8		
		.05 Check settings and operation of all pressure switches and reset if necessary	No	8		
		.06 Check settings and operation of thermostat	No	8		
		.07 Re-gasing of regrigerant	No	8		
		.08 Clean air intake screen	No	8		
		<b>.05 Ducted Hide away Air-Conditioning Units</b>				
		.01 Replace filters	No	2		
		.02 Clean diffusers	No	55		
		.03 Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	No	1		
		.04 Repair refrigerant pipe insulation	m	10		
		.05 Check settings and operation of thermostat	No	2		
		.06 Clean air intake screen	No	2		
		.07 Ensure operational of remote controllers	No	1		
		<b>.06 VRV Outdoor Air-Conditioning Units</b>				
		.01 Repair Outdoor Unit fins	No	5		
		.02 Replace Outdoor Unit casing	No	5		
		.03 Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	No	5		
Carried forward						

## SCHEDULE NO 1: INSTALLATION M1: HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS

MECHANICAL  
REPAIR WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PFD 05.01.01	100,01	.06 .04 Re-gasing of regrigerant	No	40		
		.05 De-rust, neutralize and touch up paint	No	40		
		.06 Check and repair settings and operation of all safety switches, i.e. LP&HP switches, oil pressure switches, etc.	No	5		
		.07 Check running current of fans and compressor, settings and operation of overloads	No	50		
		.08 Replace Outdoor vibration mountings	No	10		
		.09 Clean outdoor fan blades and check unbalance	No	5		
PFD 05.02.03	100,02	INSTALL NEW AC UNITS				
		.01 Midwall Split Type Air-Conditioning Units				
		.01 Mid-wall Split type air-conditioning unit (3.6kW total cooling)	No	7		
		02 12000 btu high wall split unit	No	15		
		03 18000 btu high wall split unit	No	7		
		04 26000 btu high wall split unit	No	7		
		.02 Operating and maintenance manuals				
	.01 Compile & supply a complete set of operating and maintenance manuals	Set	3			
TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 1: INSTALLATION M1:						

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BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 2: INSTALATION M2: GOLELA - INCINERATOR INSTALLATION****MECHANICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PFE 03.01	200,00	<b>GENERAL DESCRIPTION OF CORRECTIVE WORK</b>				
		.01 Repair Primary Burner	No	3		
		.02 Repair Secondary Burner	No	3		
PFE 07		.03 Allow for testing and measuring of operational efficiencies, combustion processes and issuing of certificate of compliance	No	1		
FE 04	201,00	<b>Operating and maintenance manuals</b>				
SB 05.01		.01 Compile & supply a complete set of operating and maintenance manuals (3 copies required)	No	3		
PFE 05		.02 Allow training for End-user client	No	3		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 2: INSTALATION M2:</b>						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 3: INSTALATION M3: CONVENTIONAL FIRE FIGHTING EQUIPMENT****MECHANICAL  
REPAIR WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
PJC 06.01	300,00	<b>CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>				
	301,00	<b>GENERAL</b>				
PJC 13	301,01	Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc: as per technical specification JC05				
		.01 Conventional fire fighting equipment	Sum	1		
	301,02	<b>Signage for fire fighting equipment</b>				
		.01 Install new silk screened Fire Fighting Signage mounted on walls .01 190mm x 190mm	No	200		
PJC 06.04		.02 Reinstall silk screened Fire Fighting Signage mounted on walls .01 190mm x 190mm	No	100		
	302,00	<b>DETAILS OF REPAIR WORK TO EQUIPMENT</b>				
	302,01	<b>Supply and installation of fire hose reel equipment:</b>				
		.01 Fire hose-reel valve	No	8		
PJC 06.03		.02 Fire hose-reel nozzle	No	13		
		.03 Repair Hose-reel cabinet, closing mechanism	No	20		
		.04 Repair Fire hose cabinet, closing mechanism	No	20		
		.05 Fire Booster Pumps system Repair	sum	1		
PJC 03	302,02	<b>Supply and installation of fire hydrant</b>				
		.01 Painting of Fire Hydrants	No	50		
		.02 Replace 30m long, 64mm diameter, percolating fire hose coils complete with quick coupling	No	5		
PJC 03	303,00	<b>OPERATING AND MAINTENANCE MANUALS</b>				
		.01 Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	3		
<b>TOTAL - CARRIED TO REPAIR SUMMARY: SCHEDULE NO 3: INSTALLATION M3:</b>						



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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**SUMMARY OF SCHEDULE OF QUANTITIES: MAINTENANCE AND OPERATION WORK****SUMMARY**

SCHEDULE INSTALLATION C1.MG: GOLELA:STRUCTURAL AND BUILDING

R .....

SCHEDULE INSTALLATION C2.MG: GOLELA:PLUMBING, DRAINAGE AND WET SERVICES

R .....

SCHEDULE INSTALLATION C3.MG: GOLELA:  
FENCING, CLEANING OF BUILDINGS AND SITE KEEPING

R .....

SCHEDULE INSTALLATION C4.MG: GOLELA:  
BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

R .....

SCHEDULE INSTALLATION C5.MG: GOLELA:  
WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

R .....

SCHEDULE INSTALLATION C6.MG: GOLELA:ROADS AND STORM WATER DRAINAGE

R .....

SCHEDULE INSTALLATION C1.MO: ONVERWACHT:STRUCTURAL AND BUILDING

R .....

SCHEDULE INSTALLATION C2.MO: ONVERWACHT:PLUMBING, DRAINAGE AND WET SERVICES

R .....

SCHEDULE INSTALLATION C3.MO: ONVERWACHT:  
FENCING, CLEANING OF BUILDINGS AND SITE KEEPING

R .....

SCHEDULE INSTALLATION C4.MO: ONVERWACHT:  
BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS

R .....

SCHEDULE INSTALLATION C5.MO: ONVERWACHT:  
WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

R .....

SCHEDULE INSTALLATION C6.MO: ONVERWACHT:ROADS AND STORM WATER DRAINAGE

R .....

**TOTAL OF SCHEDULE OF QUANTITIES - MAINTENANCE AND OPERATION WORK CARRIED TO  
CALCULATION OF TENDER SUM**

R .....

SIGNED ON BEHALF OF TENDERER: .....

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO. 4.1 INSTALLATION C1.MG: STRUCTURAL AND BUILDING****GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	1500,00	<b>STRUCTURAL AND BUILDING RELATED WORK</b>				
SA.01	1500,01	<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, indicator 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 Golela: Proper maintenance of Structural and Building related work of operational area, residential area and mobile homes. Maintenance is not limited to the above-	points	360		
SA.01	1500,02	<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				
		.01 Golela: Comprehensive monthly facilities inspection report	points	360		
		Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime:				
SA.04	1500,03	<b>Payment reduction:</b>  .01 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	rate only
		Maintenance of tools and equipment on following page:				
Carried forward						

## SCHEDULE NO. 4.1 INSTALLATION C1.MG: STRUCTURAL AND BUILDING

GOLELA CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01 PS 5.1	1501,00	<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:  .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		
SA.01 PS 4	1502,00	<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  .01 Golela Programme of the Works	points	360		
		<b><u>LATE SUBMISSION OF ACCEPTABLE PROGRAMME OF THE WORKS</u></b>				
SA.04 PS 4	1502,01	<b>Payment reduction:</b>  .01 Golela: Payment reduction due to late submission of an adequate/acceptable Programme of the Works	days	-	-R 500,00	rate only
SA 03 SA.04	1503,00	<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 Golela: Complete and accurate Maintenance Control Plan	points	360		
		Payment reduction for late submission of the Maintenance Plan:  <b><u>LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</u></b>				
SA.04	1503,01	<b>Payment reduction:</b>  .01 Golela: Payment reduction due to late submission of an adequate/acceptable Maintenance Control Plan	days	-	-R 675,00	rate only
<b>TOTAL SCHEDULE No. 3.1: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 4.2: INSTALLATION C2.MG: PLUMBING, DRAINAGE AND WET SERVICES****GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	1600,00	<b><u>MAINTENANCE OF PLUMBING, DRAINAGE, WET SERVICES AND SEWER NETWORKS AT OPERATIONAL AND RESIDENTIAL BUILDINGS AND MOBILE HOMES</u></b>				
	1600,01	<b>Maintenance of a complete installation:</b> The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specification AA: Plumbing and Drainage Installations: Table AA 10.02/1 - Rainwater Disposal System, Table AA 10.02/2 - Wastewater Drainage System, Table AA 10.02/3 - Domestic Water Distribution and Reticulation Systems, Table AA 10.02/4 - Sanitary and Brassware Equipment, shall consist of at least, but not limited to: <ul style="list-style-type: none"> <li>• Checking, inspecting, cleaning, unblocking, re-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> <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 and components, etc:</li> </ul> .01 Golela: Maintenance work: Plumbing, drainage, wet services and sewer networks of operational and residential areas and mobile homes. Maintenance is not limited to the above-mentioned	point	360		
Carried forward						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

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**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 4.2: INSTALLATION C2.MG: PLUMBING, DRAINAGE AND WET SERVICES****GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
<b>SA.03</b>	<b>1600,02</b>	<b><u>Payment reduction:</u></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. 3.2: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 4.3: INSTALLATION C3.MG: FENCING, CLEANING OF BUILDINGS AND SITE KEEPING****GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 SN 01	1700,00	<b><u>MAINTENANCE OF FENCING AND GATES</u></b>				
	1700,01	<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, stays, gates, mesh fences, etc. at:</li> </ul>				
		.01 Golela: Maintenance work: Perimeter fence line, at operational area and at residential area. Maintenance is not limited to the above-mentioned	point	360		
	1700,02	<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
		Maintenance of installations on the following page:				
	Carried forward					

## SCHEDULE No. 4.3: INSTALLATION C3.MG: FENCING, CLEANING OF BUILDINGS AND SITE KEEPING

GOLELA CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
SA.01 SN 01	1701,00	<b><u>MAINTENANCE OF SITE KEEPING INSTALLATION</u></b>				
	1701,01	<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 Golela: Maintenance work: All areas included within the perimeter fence of the port of entry which includes the operational area and the residential area as well as site keeping 20m around the outside of the	point	360		
	1701,02	<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
		Maintenance and cleaning of buildings on the following page:				
		Carried forward				

## SCHEDULE No. 4.3: INSTALLATION C3.MG: FENCING, CLEANING OF BUILDINGS AND SITE KEEPING

GOLELA CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01 CJ 05 SN 01	1702,00	<b><u>MAINTENANCE AND CLEANING OF BUILDINGS</u></b>				
	1702,01	<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.01.02), shall consist of at least, but not limited to: <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 floors</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>				
		.01 Golela: Maintenance work: Operational buildings, ablution blocks, public areas, paving areas, concrete screeds, etc.	point	360		
	1702,02	<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 SCHEDULE No. 3.3: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

**SCHEDULE No. 4.4: INSTALLATION C4.MG: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**

**GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 SF.01	1800,00	<b><u>MAINTENANCE OF BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS</u></b>				
	1800,01	<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, 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 Golela: Maintenance work: Bulk water supply systems and external water networks	point	360		
	1800,02	<b>Payment reduction:</b>				
SA.03		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day	-	-R 2 000,00	rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day	-	-R 500,00	rate only
SA.05		.03 Payment reduction due to exceeding of maximum down-time during damage repair	day	-	-R 500,00	rate only
		Operating of bulk water supply system on following page:				
Carried forward						

**SCHEDULE No. 4.4: INSTALLATION C4.MG: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**

**GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SF.01 DH.09.05	1801,00	<b><u>OPERATING OF BULK WATER SUPPLY SYSTEM</u></b>				
	1801,01	<p><b>Operating of installation:</b></p> <p>Operation as per Technical Specification DH: Operation of Potable Water Works, DA: Borehole Pump Systems, and DL: Chlorination Systems for the Disinfection of Drinking Water, DN: Dosing systems, shall consist of at least, but not limited to:</p> <ul style="list-style-type: none"> <li>• Logging and recording of all pressure gauges, water meters, water level in reservoir, borehole water levels at start and stop of pump, amperes, volts and hour meter readings of borehole pumps (and calculate kW-hours)</li> <li>• Drafting of a water balance of the bulk water system (spread sheet based), as well as measuring and recording residual chlorine in the drinking water system at reservoir and furthest distribution point user</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 of corrective measures implemented, ensuring correct borehole pump flow rate by adjusting control valve</li> <li>• Visual inspection daily, clean installation weekly, Check dosing room weekly, check and repair leaks monthly</li> <li>• Supply chemicals and ensure optimal dosing of all chemicals</li> <li>• Keeping facilities neat and controlling access to the site</li> <li>• Report in electronic format of: Turbidity readings of raw and purified water, concentration of chemical solutions, percentage setting on dosing pumps, actual volume of chemicals consumed and monthly water analysis</li> <li>• Maintaining safety conditions on site, etc. at:</li> </ul> <p>.01 Golela: Operating work: Bulk water supply systems</p>	point	360		
Carried forward						

**SCHEDULE No. 4.4: INSTALLATION C4.MG: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**

**GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.03	1801,02	<b>Payment reduction:</b> .01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day	-	-R 2 000,00	rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day	-	-R 500,00	rate only
SA.05		.03 Payment reduction due to exceeding of maximum down-time during damage repair	day	-	-R 500,00	rate only
SF.01	1802,00	<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>• 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>				
	1802,01	.01 Golela: Operation work: Water audit: Operational area, residential area and mobile homes	point	360		
EJ 04.07 EJ 05	1803,00	<b><u>POTABLE QUALITY TESTING</u></b>  • Wastewater quality tests to be performed by an approved authority on a monthly basis on the water	Month	36		
DH 06	1804,00	<b><u>TERTIARY TREATMENT FACILITY</u></b>  • Supply chemicals for water treatment operation: <ul style="list-style-type: none"> <li>– Sodium hypochlorite</li> <li>– Poly-electrolyte for flocculation</li> <li>– Soda ash for pH correction</li> </ul>	kg ℓ kg	360 720 720		
<b>TOTAL SCHEDULE No. 3.4: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 4.5: INSTALLATION C5.MG: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS****GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SF.01 DH.07 EM 05 EG 06 EJ 05	1900,00	<u>WASTEWATER TREATMENT WORKS. SEWER NETWORKS AND PUMP STATION AND INLET WORKS</u>				
	1901,00	<u>MAINTENANCE AND OPERATION WORK OF SEWERAGE PUMP STATION AT GOLELA:</u>				
	1901,01	<p><b>Maintenance and operation of complete installation:</b></p> <p>The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CF: Sewer Networks, DH: Laboratory equipment, EA: Wastewater Inlet Works, EB: Pump Systems, EC: Sedimentation tanks, EG: Septic tanks, EH: Oxidation and maturation ponds, EI: Disinfection of wastewater, EJ: Wastewater quality measurement and testing, EK: Valves and Sluice Gates, EM: Operation of</p> <ul style="list-style-type: none"><li>• Routine inspection of the <u>Lilliput</u> wastewater treatment system and networks</li><li>• Keep wastewater treatment site in neat condition</li><li>• Routine inspection of inlet works or as required</li><li>• Daily cleaning of inlet screen</li><li>• Inspection and cleaning of pump station</li><li>• Necessary cleaning and rodding and unblocking of the bulk sewer network and raw sewage pump station</li><li>• Fixing and cleaning of pipe work and valves</li><li>• Cleaning and servicing of pumps including lubrication of moving parts, replacement of components, etc.</li><li>• Monitoring and reporting of measurements taken and analysis done for process control (EM 04.07) A logbook shall be kept for daily recordings (EM 04.07) A logbook shall be kept for use of chemicals Chemical analysis (monthly) and report Up to date monitoring programme: Frequency of measurements and analysis ( EM 04.07, table 3)</li><li>• Prevent environmental pollution</li><li>• Removal of invasive plants, trees and bushes around wastewater treatment works</li><li>• Operation of entire wastewater treatment plant to its optimum capacity in accordance with maintenance and operating manual as well as instructions provided by supplier of system</li><li>• Monthly water quality tests. See item 1903.00 for payment</li><li>• Supply chemicals for water treatment operation. See item 1904.00 for payment</li></ul>				
Carried forward						

**SCHEDULE No. 4.5: INSTALLATION C5.MG: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS**

**GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SF.01 EG 01 EG 06 EM 05		.01 Golela: Operational work: Lilliput wastewater treatment works and sewer network: Inlet bar screen chamber, pump sump, holding tanks collector tanks and sewer pipe work and laboratory equipment	point	360		
	1901,02	<b>Payment reduction:</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day	-	-R 2 000,00	rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time during	day	-	-R 500,00	rate only
		.03 Payment reduction due to exceeding of maximum down-time during damage repair	day	-	-R 500,00	rate only
	1902,00	<b><u>COLLECTOR TANKS</u></b>				
	1902,01	<b>Desludge collector tanks:</b>  The Contractor shall attend to preventative maintenance, which consist of, but not limited to:  • Check and log scum, water and sludge depths in collector tank. If sludge depth exceeds 50% of tank depth, desludge the tank. Desludge tank once per year. Inspection is monthly • Inspection of chambers and removal of invasive plants				
		.01 Golela collector tanks: Check, desludge, cleaning out and dispose of contents <u>off-site</u> and provide <u>certificate</u> in accordance with	point	60		
	1902,02	<b>Payment reduction:</b>				
		.01 Payment reduction due to exceeding of maximum allowable sludge build-up in	day	-	-R 2 000,00	rate only
EJ 04.07 EJ 05	1903,00	<b><u>WASTEWATER QUALITY TESTING</u></b>  • Wastewater quality tests to be performed by an approved authority on a monthly basis on the water	Month	36		
<b>TOTAL SCHEDULE No. 3.5: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 4.6: INSTALLATION C6.MG: ROADS AND STORM WATER DRAINAGE****GOLELA CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	2000,00	<b><u>MAINTENANCE OF ROADS AND STORM WATER DRAINAGE</u></b>				
	2000,01	<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</li> </ul> Technical Specification CB: Storm Water 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,</li> </ul> </li> </ul>				
		.01 Golela: Maintenance work: Roads and storm water drainage at Operational area and residential area	point	360		
	2000,02	<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 SCHEDULE No. 3.6: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 5.1: INSTALLATION C1.MO: STRUCTURAL AND BUILDING****ONVERWACHT CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	2100,00	<b><u>STRUCTURAL AND BUILDING RELATED</u></b>				
	2100,01	<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, indicator 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 Onverwacht: Proper maintenance of Structural and Building related work of operational area, residential area. Maintenance is not limited to the above-mentioned	points	360		
SA.01	2100,02	<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  .01 Onverwacht: Comprehensive monthly facilities inspection report  Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime:	points	360		
SA.04	2100,03	<b>Payment reduction:</b>  .01 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days	-	-R 500,00	rate only
SA.01 PS 5.1	2101,00	<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				
Carried forward						

## SCHEDULE No. 5.1: INSTALLATION C1.MO: STRUCTURAL AND BUILDING

ONVERWACHT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01 PS 4	2102,00	.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		
		.01 Onverwacht: Programme of the Works	points	360		
		<b><u>LATE SUBMISSION OF ACCEPTABLE PROGRAMME OF THE WORKS</u></b>				
SA.04 PS 4	2102,01	<b>Payment reduction:</b>  .01 Onverwacht: Payment reduction due to late submission of an adequate/ acceptable Programme of the Works	days	-	-R 500,00	rate only
SA 03 SA.04	2103,00	<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 Onverwacht: Complete and accurate Maintenance Control Plan	points	360		
		Payment reduction for late submission of the Maintenance Plan:  <b><u>LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</u></b>				
SA.04	2103,01	<b>Payment reduction:</b>  .01 Onverwacht: Payment reduction due to late submission of an adequate/ acceptable Maintenance Control Plan	days	-	-R 500,00	rate only
<b>TOTAL SCHEDULE No. 4.1: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

**SCHEDULE No. 5.2: INSTALLATION C2.MO: PLUMBING, DRAINAGE AND WET SERVICES**

**ONVERWACHT CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	2200,00	<b><u>MAINTENANCE OF PLUMBING, DRAINAGE, WET SERVICES AND SEWER NETWORKS AT OPERATIONAL AND RESIDENTIAL BUILDINGS</u></b>				
	2200,01	<p><b>Maintenance of a complete installation:</b></p> <p>The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specification AA Plumbing and Drainage Installations:</p> <p>Table AA 10.02/1 - Rainwater Disposal System, Table AA 10.02/2 - Wastewater Drainage System, Table AA 10.02/3 - Domestic Water Distribution and Reticulation Systems, Table AA 10.02/4 - Sanitary and Brassware Equipment, shall consist of at least, but not limited to:</p> <ul style="list-style-type: none"> <li>• Checking, inspecting, cleaning, unblocking, re-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> <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 and components, etc:</li> </ul> <p>.01 Onverwacht: Maintenance work: Plumbing, drainage, wet services and sewer networks of operational and residential areas. Maintenance is not limited to the above-mentioned</p>	point	360		
Carried forward						

## SCHEDULE No. 5.2: INSTALLATION C2.MO: PLUMBING, DRAINAGE AND WET SERVICES

ONVERWACHT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.03	2200,02	<b><u>Payment reduction:</u></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 damage repair	days	-	-R 500,00	rate only
SF.01	2201,00	<b>Operation of a complete installation:</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>				
	2201,01	.01 Onverwacht: Operation work: Operational area, residential area  Payment reduction due to exceeding of maximum allowable down-time during breakdown:	point	360		
	2201,02	<b><u>Payment reduction:</u></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 SCHEDULE No. 4.2: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						

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GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 5.3: INSTALLATION C3.MO: FENCING, CLEANING OF BUILDINGS AND SITE KEEPING****ONVERWACHT CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 SN 01	2300,00	<b><u>MAINTENANCE OF FENCING AND GATES</u></b>				
	2300,01	<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, stays, gates, mesh fences, etc. at:</li> </ul>				
		.01 Onverwacht: Maintenance work: Perimeter fence line, at operational area and at residential area. Maintenance is not limited to the above-mentioned	point	360		
	2300,02	<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
		Maintenance of installations on the following page:				
Carried forward						

## SCHEDULE No. 5.3: INSTALLATION C3.MO: FENCING, CLEANING OF BUILDINGS AND SITE KEEPING

ONVERWACHT CIVIL

MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SA.01 SN 01	2301,00	<b><u>MAINTENANCE OF SITE KEEPING INSTALLATION</u></b>				
	2301,01	<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 Onverwacht: Maintenance work: All areas included within the perimeter fence of the port of entry which includes the operational area and the residential area as well as site keeping 20m around the outside of the	point	360		
SA.03	2301,02	<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		.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. 5.3: INSTALLATION C3.MO: FENCING, CLEANING OF BUILDINGS AND SITE KEEPING

ONVERWACHT CIVIL

MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
SA.01 CJ 05 SN 01	2302,00	<b><u>MAINTENANCE AND CLEANING OF BUILDINGS</u></b>				
	2302,01	<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.01.02), shall consist of at least, but not limited to: <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 floors</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>				
		.01 Onverwacht: Maintenance work: Operational buildings, ablution blocks, public areas, paving areas, concrete screeds, etc.	point	360		
	2302,02	<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 SCHEDULE No. 4.3: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 5.4: INSTALLATION C4.MO: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS****ONVERWACHT CIVIL****MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	2400,00	<b><u>MAINTENANCE OF BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS</u></b>				
	2400,01	<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 the Disinfection 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, test, service, re-adjust, repair or replace all types of valves and vacuum breakers, inclusive of gaskets, gland packings, seals, etc.</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 works at:</li> </ul>				
		.01 Onverwacht: Maintenance work: Bulk water supply systems and external water networks	point	360		
SA.03	2400,02	<b>Payment reduction:</b> .01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day	-	-R 2 000,00	rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during	day	-	-R 500,00	rate only
SA.05		.03 Payment reduction due to exceeding of maximum down-time during damage repair	day	-	-R 500,00	rate only
		Operating of bulk water supply system on following page:				
Carried forward						

**SCHEDULE No. 5.4: INSTALLATION C4.MO: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**

**ONVERWACHT CIVIL**

**MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SF.01 DH.09.05	2401,00	<b><u>OPERATING OF BULK WATER SUPPLY SYSTEM</u></b>				
	2401,01	<b>Operating of installation:</b>  Operation as per Technical Specification 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, water level in reservoir, borehole water levels at start and stop of pump, amperes, volts and hour meter readings of borehole pumps (and calculate kW-hours)</li> <li>• Drafting of a water balance of the bulk water system (spread sheet based), as well as measuring and recording residual chlorine in the drinking water system at reservoir and furthest distribution point user</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 of corrective measures implemented, ensuring correct borehole pump flow rate by adjusting control valve</li> <li>• Supply chemicals and ensure optimal dosing of all chemicals</li> <li>• Keeping facilities neat and controlling access to the site</li> <li>• Maintaining safety conditions on site, etc:</li> </ul>				
		.01 Onverwacht: Operating work: Bulk water supply systems and external networks	point	360		
	2401,02	<b>Payment reduction:</b>				
	SA.03	.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day	-	-R 2 000,00	rate only
SA.04		.02 Payment reduction due to exceeding of maximum allowable down-time during	day	-	-R 500,00	rate only
SA.05		.03 Payment reduction due to exceeding of maximum down-time during damage repair	day	-	-R 500,00	rate only
Carried forward						

**SCHEDULE No. 5.4: INSTALLATION C4.MO: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**

**ONVERWACHT CIVIL**

**MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
SF.01	2402,00	<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</li> <li>• Measuring sewer night flows</li> <li>• Analysis of data and identification of</li> <li>• Adjust operation of pressure-reducing</li> <li>• Adjust operation of pressure-reducing</li> <li>• Compilation of monthly water balance</li> </ul>				
	2402,01	.01 Onverwacht Operation work: Water audit: Operational area, residential area	point	360		
EJ 04.07 EJ 05	2403,00	<b><u>POTABLE QUALITY TESTING</u></b>  <ul style="list-style-type: none"> <li>• Wastewater quality tests to be performed by an approved authority on a monthly basis on the water</li> </ul>	Month	36		
DH 06	2404,00	<b><u>TERTIARY TREATMENT FACILITY</u></b>  <ul style="list-style-type: none"> <li>• Supply chemicals for water treatment operation:               <ul style="list-style-type: none"> <li>– Sodium hypochlorite</li> <li>– Watermaker Rapid Flocc for flocculation</li> </ul> </li> </ul>	kg	360		
			ℓ	720		
			kg	720		
<b>TOTAL SCHEDULE No. 4.4: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 5.5: INSTALLATION C5.MO: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS****ONVERWACHT CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01 SF 06	2500,00	<b><u>WASTEWATER TREATMENT WORKS, SEWER NETWORKS AND PUMP STATION AND INLET WORKS AT ONVERWACHT:</u></b>				
	2501,00	<b><u>MAINTENANCE AND OPERATION WORK OF SEWERAGE PUMP STATION AT ONVERWACHT:</u></b>				
	2501,01	<b>Maintenance and operation of complete installation at Onverwacht:</b> The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CF: Sewer Networks, EA: Wastewater Inlet Works, EB: Pump Systems, EH: Oxidation and maturation ponds, EJ: Wastewater quality measurement and testing, EK: Valves and Sluice Gates, EM: Operation of wastewater works which consist of, but not limited to: <ul style="list-style-type: none"> <li>• Routine inspection of wastewater treatment system and networks</li> <li>• Keep wastewater treatment site in neat condition</li> <li>• Routine inspection of:               <ul style="list-style-type: none"> <li>– Inlet works</li> <li>– Septic tank</li> <li>– Oxidation dams</li> <li>– Effluent pump station</li> <li>– Irrigation system</li> </ul> </li> <li>• Daily cleaning of inlet screen or as required</li> <li>• Inspection and cleaning of pump station</li> <li>• Necessary cleaning and rodding and unblocking of the bulk sewer network and raw sewage pump station</li> <li>• Fixing and cleaning of pipe work and valves</li> <li>• Cleaning and servicing of pumps including lubrication of moving parts, replacement of components, etc.</li> <li>• Monitoring and reporting of measurements taken and analysis done for process control A logbook shall be kept for daily recordings A logbook shall be kept for use of chemicals and chemical analysis (monthly) and report Up to date monitoring programme: Frequency of measurements and analysis</li> <li>• Prevent environmental pollution</li> <li>• Removal of invasive plants, trees and bushes around wastewater treatment works</li> <li>• Operation of entire wastewater treatment plant to its optimum capacity</li> <li>• Monthly water quality tests. See item 2502.00 for payment</li> <li>• Supply chemicals for water treatment operation. See item 2503.00 for payment</li> </ul>				
Carried forward						

## SCHEDULE No. 5.5: INSTALLATION C5.MO: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

ONVERWACHT CIVIL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
SA.03	2501,02	.01 Onverwacht: Operational work: Wastewater treatment works and sewer network: Inlet works, three oxidation dams, effluent pump station, irrigation system and sewer pipe work and laboratory equipment	point	360			
		Payment reduction:					
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day	-	-R 2 000,00	rate only	
		SA.04	.02 Payment reduction due to exceeding of maximum allowable down-time during	day	-	-R 500,00	rate only
		SA.05	.03 Payment reduction due to exceeding of maximum down-time during damage repair	day	-	-R 500,00	rate only
	2502,00	SEPTIC TANK					
SF.01 EG 01 EG 06 EM 05	2502,01	Desludge septic tank:					
		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 collector tank. If sludge depth exceeds 50% of tank depth, desludge the tank. Desludge tank once per year. Inspection is monthly</li><li>• Inspection of chambers and removal of invasive plants</li></ul>					
		.01 Onverwacht septic tank: Check, desludge, cleaning out and dispose of contents off-site and provide certificate in accordance with specifications	point	60			
		Payment reduction:					
	2502,02	.01 Payment reduction due to exceeding of maximum allowable sludge build-up in collector tanks	day	-	-R 2 000,00	rate only	
EJ 04.07 EJ 05	2502,00	WASTEWATER QUALITY TESTING					
		<ul style="list-style-type: none"><li>• Wastewater quality tests to be performed by an approved authority on a monthly basis on the water</li></ul>	Month	36			
TOTAL SCHEDULE No. 4.5: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK							

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE No. 5.6: INSTALLATION C6.MO: ONVERWACHT:ROADS AND STORM WATER DRAINAGE****CIVIL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM No.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	2600,00	<b><u>MAINTENANCE OF ROADS AND STORM WATER DRAINAGE</u></b>				
	2600,01	<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</li> </ul> Technical Specification CB: Storm Water 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>				
		.01 Onverwacht: Maintenance work: Roads and storm water drainage at Operational area and residential area	point	360		
SA.03	2600,02	<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		.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 SCHEDULE No. 4.6: CARRIED TO SUMMARY: MAINTENANCE AND OPERATION WORK</b>						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB**      **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

**SUMMARY OF BILL OF QUANTITIES: ELECTRICAL MAINTENANCE WORK**

**ELECTRICAL  
MAINTENANCE WORK**

**Golela Port of Entry**

SCHEDULE INSTALATION M11: BUILDING ELECTRICAL SERVICES	R _____
SCHEDULE INSTALATION M12: STANDBY POWER	R _____
SCHEDULE INSTALATION M13: LOW VOLTAGE SYSTEMS	R _____
SCHEDULE INSTALATION M16: EXTERNAL LIGHTING SYSTEMS	R _____

**Onverwacht Port of Entry**

SCHEDULE INSTALATION M14: BUILDING ELECTRICAL SERVICES	R _____
SCHEDULE INSTALATION M15: STANDBY POWER	R _____
SCHEDULE INSTALATION M16: EXTERNAL LIGHTING SYSTEMS	R _____
SCHEDULE INSTALATION M17: LOW VOLTAGE SYSTEMS	R _____

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**TOTAL OF SCHEDULE OF QUANTITIES - ELECTRICAL MAINTENANCE WORK  
CARRIED TO CALCULATION OF TENDER SUM**

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R \_\_\_\_\_

SIGNED ON BEHALF OF TENDERER:

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## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 11: INSTALLATION EM11: BUILDING ELECTRICAL SERVICES****GOLELA ELECTRICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>1100,00</b>	<b><u>MAINTENANCE OF BUILDING ELECTRICAL SERVICES</u></b>				
	<b>1100,01</b>	<b>Maintenance of a complete installation</b>				
SA.06.01		.01 Maintenance of all buildings and site electrical services <b>after practical completion</b>	point	300		
		.02 Maintenance of all buildings and site electrical services <b>prior practical completion</b>	point	60		
		The maintenance scope is described in technical specification: AB				
	<b>1100,02</b>	<b>Payment reduction</b>				
SA.06.04		.01 Payment reduction due to exceeding of maximum allowable down-time during <b>emergency breakdown</b>	day	-	-R 2 000,00	Rates Only
SA.06.05		.02 Payment reduction due to exceeding of maximum allowable down- time during <b>ordinary breakdown</b>	day	-	-R 500,00	Rates Only
SA.06.06		.03 Payment reduction due to exceeding of maximum allowable down- time during <b>malicious danger</b> repair	day	-	-R 500,00	Rates Only
	<b>1100,03</b>	<b>Emergency Breakdown</b>				
SA.06.07		.01 Call out for repair of <b>Emergency breakdown</b> 24-hour response	No	-		Rates Only
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 11: INSTALLATION M11:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 12: INSTALLATION EM12: STANDBY POWER****GOLELA ELECTRICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.06.01 HB 12.04	<b>1200,00</b>	<b><u>MAINTENANCE OF STANDBY POWER SERVICES</u></b>				
	<b>1200,01</b>	<b>Maintenance of a complete installation</b>				
		.01 Maintenance of completed generator plant room and diesel generators	point	300		
		.02 Maintenance of completed generator plant room and diesel generator <b>prior to practical completion</b>	point	60		
		.03 Maintenance of completed UPS systems	point	300		
		.04 Maintenance of UPS systems prior to practical completion	point	60		
		The maintenance scope is described in technical specification: HA				
	<b>1200,02</b>	<b>Payment reduction</b>				
SA.06.04		.01 Payment reduction due to exceeding of maximum allowable down-time during <b>emergency breakdown</b>	day	-	-R 2 000,00	Rates Only
SA.06.05		.02 Payment reduction due to exceeding of maximum allowable down- time during <b>ordinary breakdown</b>	day	-	-R 500,00	Rates Only
SA.06.06		.03 Payment reduction due to exceeding of maximum allowable down- time during <b>malicious danger</b> repair	day	-	-R 500,00	Rates Only
	<b>1200,03</b>	<b>Emergency Breakdown</b>				
SA.06.07		.01 Call out for repair of <b>Emergency breakdown</b> 24-hour response	No	10		
Carried forward						

## SCHEDULE NO 12: INSTALLATION EM12: STANDBY POWER

GOLELA ELECTRICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	<b>1200,04</b>	<b>Generator services</b>				
HB 10.03.02		.01 Service 500kVA Generator (2x annually)	No	1		
HB 10.03.02		.02 Service 37,5kVA Generator (2x annually)	No	1		
HB 10.03.02		.03 Service 55kVA Generator (2x annually)	No	1		
HB 10.03.08		.04 Supply Diesel fuel for 36 months	ℓ	150 000		
HB 10.03.05		.05 Dummy Load Test	No	3		
HB 10.03.11		.06 Fuel water separator	No	3		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 12: INSTALLATION M12:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB** **TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

## SCHEDULE NO 13: INSTALLATION EM13: LOW VOLTAGE SYSTEMS

GOLELA ELECTRICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>1300,00</b>	<b><u>MAINTENANCE OF LOW VOLTAGE SYSTEMS</u></b>				
	<b>1300,01</b>	<b>Maintenance of a complete installation</b>				
SA.01		.01 Maintenance of completed Low voltage installation	point	330		
SA.02		.02 Maintenance of completed low voltage installation prior to practical completion	point	30		
		The maintenance scope is described in technical specification: HC (Clauses HC 11.04; HC 12.04 & HC 13.04)				
	<b>1300,02</b>	<b>Payment reduction</b>				
SA.06.04		.01 Payment reduction due to exceeding of maximum allowable down-time during <b>emergency breakdown</b>	day	-	-R 2 000,00	Rates Only
SA.06.05		.02 Payment reduction due to exceeding of maximum allowable down- time during <b>ordinary breakdown</b>	day	-	-R 500,00	Rates Only
SA.06.06		.03 Payment reduction due to exceeding of maximum allowable down- time during <b>malicious danger</b> repair	day	-	-R 500,00	Rates Only
	<b>1300,03</b>	<b>Training</b>				
SD.04		.01 Presenting a training course for maintenance personnel	No	20		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 13: INSTALLATION M13:</b>						



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 14: INSTALLATION EM14: BUILDING ELECTRICAL SERVICES****ONVERWACHT ELECTRICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>1400,00</b>	<b><u>MAINTENANCE OF BUILDING ELECTRICAL SERVICES</u></b>				
	<b>1400,01</b>	<b>Maintenance of a complete installation</b>				
SA.06.01		.01 Maintenance of all buildings and site electrical services <b>after practical completion</b>	point	300		
SA.06.02		.02 Maintenance of all buildings and site electrical services <b>prior practical completion</b>	point	60		
		The maintenance scope is described in technical specification: AB				
	<b>1400,02</b>	<b>Payment reduction</b>				
SA.06.04		.01 Payment reduction due to exceeding of maximum allowable down-time during <b>emergency breakdown</b>	day	-	-R 2 000,00	Rates Only
SA.06.05		.02 Payment reduction due to exceeding of maximum allowable down- time during <b>ordinary breakdown</b>	day	-	-R 500,00	Rates Only
SA.06.06		.03 Payment reduction due to exceeding of maximum allowable down- time during <b>malicious danger</b> repair	day	-	-R 500,00	Rates Only
	<b>1400,03</b>	<b>Emergency Breakdown</b>				
SA.06.07		.01 Call out for repair of <b>Emergency breakdown</b> 24-hour response	No	10		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 14: INSTALLATION M14:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 15: INSTALLATION EM15: STANDBY POWER****ONVERWACHT ELECTRICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>1500,00</b>	<b><u>MAINTENANCE OF STANDBY POWER SERVICES</u></b>				
	<b>1500,01</b>	<b>Maintenance of a complete installation</b>				
SA.06.01		.01 Maintenance of completed generator plant room and diesel generators	point	300		
SA.06.02		.02 Maintenance of completed generator plant room and diesel generator <b>prior to practical completion</b>	point	60		
		The maintenance scope is described in technical specification: HA				
	<b>1500,02</b>	<b>Payment reduction</b>				
SA.06.04		.01 Payment reduction due to exceeding of maximum allowable down-time during <b>emergency breakdown</b>	day	-	-R 2 000,00	Rates Only
SA.06.05		.02 Payment reduction due to exceeding of maximum allowable down- time during <b>ordinary breakdown</b>	day	-	-R 500,00	Rates Only
SA.06.06		.03 Payment reduction due to exceeding of maximum allowable down- time during <b>operational danger</b> repair	day	-	-R 500,00	Rates Only
	<b>1500,03</b>	<b>Emergency Breakdown</b>				
SA.06.07		.01 Call out for repair of <b>Emergency breakdown</b> 24-hour response	No	50		
	<b>1500,04</b>	<b>Generator services</b>				
HB 10.03.02		.01 Service 70kVA Generator	Sum	1		
HB 10.03.02		.02 Supply Diesel fuel for 36 months	Litres	40 000		
HB 10.03.02		.03 Dummy Load Test	No	1		
HB 10.03.08		.04 Fuel water separator	No	1		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 15: INSTALLATION M15:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

GOLELA AND ONVERWACHT

**SCHEDULE NO 16: INSTALLATION EM16: EXTERNAL LIGHTING SYSTEMS****ELECTRICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>1600,00</b>	<b>MAINTENANCE OF EXTERNAL LIGHTING INSTALLATIONS</b>				
	<b>1600,01</b>	<b>Maintenance of a complete installation</b>				
SA.06.01		.01 Maintenance of completed external lighting installation	point	300		
		.02 Maintenance of completed external lighting installation <b>prior to practical completion</b>	point	60		
		The maintenance scope is described in technical specification: HE				
	<b>1600,02</b>	<b>Payment reduction</b>				
SA.06.04		.01 Payment reduction due to exceeding of maximum allowable down- time during emergency breakdown	day	-	-R 2 000,00	Rates Only
SA.06.05		.02 Payment reduction due to exceeding of maximum allowable down- time during ordinary breakdown	day	-	-R 500,00	Rates Only
SA.06.06		.03 Payment reduction due to exceeding of maximum allowable down- time during operational danger repair	day	-	-R 500,00	Rates Only
SA.06.06		Low voltage System at Golela	sum	1		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 16: INSTALLATION M16:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 17: INSTALLATION EM17: LOW VOLTAGE SYSTEMS****ONVERWACHT ELECTRICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	<b>1700,00</b>	<b>MAINTENANCE OF LOW VOLTAGE SYSTEMS INSTALLATIONS</b>				
	<b>1700,01</b>	<b>Maintenance of a complete installation</b>				
<b>SA.01</b>		.01 Maintenance of completed Low voltage installation	point	330		
<b>SA.02</b>		.02 Maintenance of completed low voltage installation prior to practical completion	point	30		
		The maintenance scope is described in technical specification: HC ( Clauses HC 11.04; HC 12.04 & HC 13.04)				
	<b>1700,02</b>	<b>Payment reduction</b>				
		.01 Payment reduction due exceeding of maximum allowable down- time during emergency breakdown	day	-	-R 2 000,00	Rates Only
<b>SA.06.05</b>		.02 Payment reduction due to exceeding of maximum allowable down- time during ordinary breakdown	day	-	-R 500,00	Rates Only
<b>SA.06.06</b>		.03 Payment reduction due to exceeding of maximum allowable down- time during operational danger repair	day	-	-R 500,00	Rates Only
	<b>1700,03</b>	<b>Training</b>				
<b>SD.04</b>		.01 Presenting a training course for maintenance personnel	No	1		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 17: INSTALLATION M17:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK INK****SUMMARY OF SCHEDULE OF QUANTITIES: MECHANICAL MAINTENANCE WORK****MAINTENANCE WORK**

SCHEDULE NO 4: INSTALATION M4: GOLELA HEATING, VENTILATION AND AIRCONDITIONING

R \_\_\_\_\_

SCHEDULE NO 5: INSTALATION M5: ONVERWACHT HEATING, VENTILATION AND AIRCONDITIONING

R \_\_\_\_\_

SCHEDULE NO 6: INSTALATION M6: GOLELA INCINERATOR INSTALLATION

R \_\_\_\_\_

SCHEDULE NO 7: INSTALATION M7: GOLELA CONVENTIONAL FIRE FIGHTING EQUIPMENT

R \_\_\_\_\_

SCHEDULE NO 8: INSTALATION M8: ONVERWACHT CONVENTIONAL FIRE FIGHTING EQUIPMENT

R \_\_\_\_\_

**TOTAL OF SCHEDULE OF QUANTITIES - MECHANICAL MAINTENANCE WORK  
CARRIED TO CALCULATION OF TENDER SUM**

R .....

SIGNED ON BEHALF OF TENDERER:

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DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK**

SCHEDULE NO 4: INSTALLATION MM4: HEATING, VENTILATION AND AIRCONDITIONING

GOLELA MECHANICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA.01	400,00	MAINTENANCE OF HEATING, VENTILATION AND AIRCONDITIONING				
	401,00	Maintenance of a complete installation				
		.01 Heating, Ventilation and Air conditioning	Point	360		
		The maintenance scope is described in technical specifications FD, PFD				
	402,00	Payment Reduction				
SA 06.05		.01 Payment Reduction due to exceeding of maximum allowable down-time during Emergency Breakdown	Day	-	-R 1 000,00	Rate only
SA 06.06		.02 Payment Reduction due to exceeding of maximum allowable down-time during Ordinary Breakdown	Day	-	-R 100,00	Rate only
SA 06.07		.03 Payment Reduction due to exceeding of maximum allowable down-time during Malicious Damage Repair	Day	-	-R 100,00	Rate only
	403,00	Mandatory periodical services not included in preventative maintenance items listed above				
	403,01	Golela Operational Area				
PFD 05.01.01		.01 Provide Full service of Air-conditioning Units according to manufacturer's specifications (Bi-Annually)				
		.01 Mid-wall Split Unit	No	10		
		.02 VRV Mid-wall Indoor Unit	No	12		
		.03 Console Unit	No	50		
		.04 VRV Ducted Hide-away Unit with Fresh air supply fan	No	19		
Carried forward						

## SCHEDULE NO 4: INSTALLATION MM4: HEATING, VENTILATION AND AIRCONDITIONING

GOLELA MECHANICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT	
Brought forward							
PFD 05.01.01	403,01	.01 .05 .Ceiling Cassette Split Unit	No	2			
		.06 Ceiling Cassette VRV Unit	No	2			
		.07 VRV Outdoor Units	No	10			
		.08 Ceiling Extract fans	No	14			
PFD 05.01.01	403,02	Golela Residential Area					
		.01 Provide Full service of Air-conditioning Units according to manufacturer's specifications (Bi-Annually)					
		.01 Mid-wall Split Unit	No	160			
		.02 Self Contained Unit	No	6			
		.03 Allow training for End-user client	No	2			
TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 4: INSTALLATION M4:							

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 5: INSTALLATION MM5: HEATING, VENTILATION AND AIRCONDITIONING****ONVERWACHT MECHANICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
SA 06.01	500,00	<b>MAINTENANCE OF HEATING, VENTILATION AND AIRCONDITIONING</b>				
	501,00	<b>Maintenance of a complete installation</b>  .01 Heating, Ventilation and Air conditioning  The maintenance scope is described in technical specifications FD, PFD	Point	360		
SA 06.05	502,00	<b>Payment Reduction</b>  .01 Payment Reduction due to exceeding of maximum allowable down-time during Emergency Breakdown	Day	-	-R 1 000,00	Rate only
SA 06.06		.02 Payment Reduction due to exceeding of maximum allowable down-time during Ordinary Breakdown	Day	-	-R 100,00	Rate only
SA 06.07		.03 Payment Reduction due to exceeding of maximum allowable down-time during Malicious Damage Repair	Day	-	-R 100,00	Rate only
	503,00	<b>Mandatory periodical services not included in preventative maintenance items listed above</b>  .01 <b>Onverwacht Operational Area</b>  Provide Full service of Air-conditioning Units according to manufacturer's specifications (Bi-Annually)				
		.01 Mid-wall Split Unit	No	17		
Carried forward						



## SCHEDULE NO 5: INSTALLATION MM5: HEATING, VENTILATION AND AIRCONDITIONING

ONVERWACHT MECHANICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
	503,00	.02 Onverwacht Residential Area				
		Provide Full service of Air-conditioning Units according to manufacturer's specifications (Bi-Annually)				
		.01 Self Contained Unit	No	6		
		.02 Mid-wall Split Unit	No	13		
		.03 Allow training for End-user client	No	2		
TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 5: INSTALLATION M5:						

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 6: INSTALATION MM6: INCINERATOR INSTALLATION****GOLELA MECHANICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>600,00</b>	<b>MAINTENANCE OF INCINERATOR EQUIPMENT</b>				
<b>SA 06.01</b>	<b>601,00</b>	<b>Maintenance of a completed installation</b>				
		.01 Incinerator	Point	360		
		The maintenance scope is described in technical specifications: FE, PFE				
	<b>602,00</b>	<b>Payment Reduction</b>				
<b>SA 06.05</b>		.01 Payment Reduction due to exceeding of maximum allowable down-time during Emergency Breakdown	Day	-	-R 2 500,00	Rate only
<b>SA 06.06</b>		.02 Payment Reduction due to exceeding of maximum allowable down-time during Ordinary Breakdown	Day	-	-R 500,00	Rate only
<b>SA 06.07</b>		.03 Payment Reduction due to exceeding of maximum allowable down-time during Malicious Damage Repair	Day	-	-R 500,00	Rate only
	<b>603,00</b>	<b>Mandatory periodical services not included in preventative maintenance items listed above</b>				
		<b>.01 INCINERATOR</b>				
<b>FE 05</b>		.01 Presenting a training course for operators	No	2		
		.02 Cleaning of Intensfier fan	Item	6		
		.03 Replacement of Fly Ash Screen	No	6		
		.04 Supply and install of diesel for an Incinerator	litres	6		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 6: INSTALLATION M6:</b>						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 7: INSTALLATION MM7: CONVENTIONAL FIRE FIGHTING EQUIPMENT****GOLELA MECHANICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>700,00</b>	<b>MAINTENANCE OF CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>				
<b>SA.01</b>	<b>701,00</b>	<b>Maintenance of a completed installation</b>				
		.01 Fire Fighting Equipment and Fire Detection System	Point	360		
		The maintenance scope is described in technical specifications: JC, PJC, IG				
	<b>702,00</b>	<b>Payment reduction:</b>				
<b>SA.04</b>		.01 Payment Reduction due to exceeding of maximum allowable down-time during Emergency Breakdown	Day	-	-R 1 000,00	Rate only
<b>SA.05</b>		.02 Payment Reduction due to exceeding of maximum allowable down-time during Ordinary Breakdown	Day	-	-R 100,00	Rate only
<b>SA.06</b>		.03 Payment Reduction due to exceeding of maximum allowable down-time during Malicious Damage Repair	Day	-	-R 100,00	Rate only
<b>SA.07</b>		.04 Call-out for repair of Emergency Breakdown (24 hours) response	No	2		
	<b>703,00</b>	<b>Mandatory periodical Servicing and Cleaning not included in preventative maintenance items listed above</b>				
<b>PJC.09</b>		.01 Statutory annual servicing of 4.5kg DCP Fire extinguishers	No	82		
<b>PJC.10</b>		.02 Statutory annual servicing of 5kg CO <sub>2</sub> Fire extinguishers	No	12		
<b>PJC.11</b>		.03 Statutory annual servicing of 9kg DCP Fire extinguishers	No	11		
<b>PJC.12</b>		.04 Fire Booster Sytem	No	1		
Carried forward						

## SCHEDULE NO 7: INSTALLATION MM7: CONVENTIONAL FIRE FIGHTING EQUIPMENT

GOLELA MECHANICAL  
MAINTENANCE WORK

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
Brought forward						
PJC.07	703,00	.04 Statutory annual servicing of Fire hydrants	No	16		
PJC.08		.05 Statutory annual servicing of 30m long, 25mm diameter Fire hose-reels	No	28		
PJC.12		.06 Statutory annual servicing and testing of Fire booster pump system	No	2		
IG.06.01		.07 Statutory annual testing and servicing of Fire detection system inclusive of fire and smoke detectors, sounders, call points, control panel etc:	No	4		
PJC.04		.08 Fire Fighting Training	No	2		
TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 7: INSTALLATION M7:						

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## BILL OF QUANTITIES

**NB TENDERERS MUST COMPLETE THE BILL OF QUANTITIES IN BLACK INK****SCHEDULE NO 8: INSTALLATION MM8: CONVENTIONAL FIRE FIGHTING EQUIPMENT****ONVERWACHT MECHANICAL  
MAINTENANCE WORK**

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>800,00</b>	<b>MAINTENANCE OF CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>				
SA.01	<b>801,00</b>	<b>Maintenance of a completed installation</b>				
		.01 Fire Fighting Equipment and Fire Detection System	Point	360		
		The maintenance scope is described in technical specifications: JC, PJC,IG				
	<b>802,00</b>	<b>Payment reduction:</b>				
SA.04		.01 Payment Reduction due to exceeding of maximum allowable down-time during Emergency Breakdown	Day	-	-R 1 000,00	Rate only
SA.05		.02 Payment Reduction due to exceeding of maximum allowable down-time during Ordinary Breakdown	Day	-	-R 100,00	Rate only
SA.06		.03 Payment Reduction due to exceeding of maximum allowable down-time during Malicious Damage Repair	Day	-	-R 100,00	Rate only
	<b>803,00</b>	<b>Mandatory periodical Servicing and Cleaning not included in preventative maintenance items listed above</b>				
PJC.09		.01 Statutory annual servicing of 5kg CO <sub>2</sub> Fire extinguishers	No	5		
PJC.09		.02 Statutory annual servicing of 9kg DCP Fire extinguishers	No	22		
PJC.04		.03 Fire Fighting Training	No	2		
<b>TOTAL - CARRIED TO MAINTENANCE SUMMARY: SCHEDULE NO 8: INSTALLATION M8:</b>						

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)**

## **PART C3 SCOPE OF WORK**

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A 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><i>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</i></b>		
Tender no:	<i>H24/017 AI</i>	Reference no:	<i>H24/017 AI</i>

### 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

Insert amendments to particular specifications

#### 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:

#### **GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (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**

GOLELA AND ONVERWACHT Ports of Entry is the property of the Department of Public Works. The location of the sites are described below:

GOLELA Port of Entry is situated on the border between South Africa and Swaziland. The Port of Entry is approximately 38 km from Pongola.

ONVERWACHT Port of Entry is situated on the border between South Africa and Swaziland. The Port of Entry is approximately 11 km from Pongola.

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 Golela and Onverwacht 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 GOLELA AND ONVERWACHT 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 GOLELA AND ONVERWACHT 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. 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, an 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:

#### **PSA 8.3.1 Fixed preliminary and general charges Unit : Sum**

#### **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) GOLELA AND ONVERWACHT 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:

- C3.6.1 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 **Zululand 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 **30% (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 **Zululand 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 **30% (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. 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 **Kwazulu Natal 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:**

- i) whose consistency when profiled may in terms of table 2 be classified as very loose, loose, medium dense, or dense; or
- ii) 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:**

- i) whose consistency when profiled may in terms of table 2 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- ii) 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 undertaken 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 of Q Item	Description	Unit	Rate	Quantity	Amount (R)
	<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 training	6 500 000			
	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

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)**

**PART C4 SITE INFORMATION**

**GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE  
MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND  
INSTALLATIONS (APPOINTMENT OF A 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)

<b>Project title:</b>	<b><i>GOLELA AND ONVERWACHT LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)</i></b>			
<b>Tender no:</b>	<i>H24/017 AI</i>	<b>WCS no:</b>	<i>056393</i>	<b>Reference no:</b> <i>H24/017 AI</i>

### C4 Site Information

The location of each facility is briefly described below:

#### **Golela Land Port of Entry:**

Golela LPOE is located at the border between South Africa and Swaziland. The closest nearest town is Pongola which is approximately 38 kilometres away. Golela LPOE is a commercial port and the operating hours are 07:00 – 22:00 Monday – Sunday.





### Onverwacht Land Port of Entry:

Onverwacht LPOE is located at the border between South Africa and Swaziland. The closest nearest town is Pongola which is approximately 11 kilometres away. Onverwacht LPOE is a non-commercial port and the operating hours are 08:00 – 18:00 Monday – Sunday.

