



public works  
& infrastructure

BOOK 1 OF 2

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

**OSHOEK, NERSTON, WAVELY AND JOSEFDAL LAND PORTS OF ENTRY: 36  
MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL,  
MECHANICAL, ELECTRICAL AND INSTALLATIONS  
(APPOINTMENT OF A CONTRACTOR)**

WCS: 056394

TENDER NUMBER: H24/019 AI

REFERENCE NUMBER: H24/019 AI

**TENDER DOCUMENT**

**AUGUST 2024**

**ISSUED BY:**

**THE DIRECTOR-GENERAL**

**Department of Public Works and Infrastructure**

**Central Government Offices**

**C/o Bosman & Madiba streets**

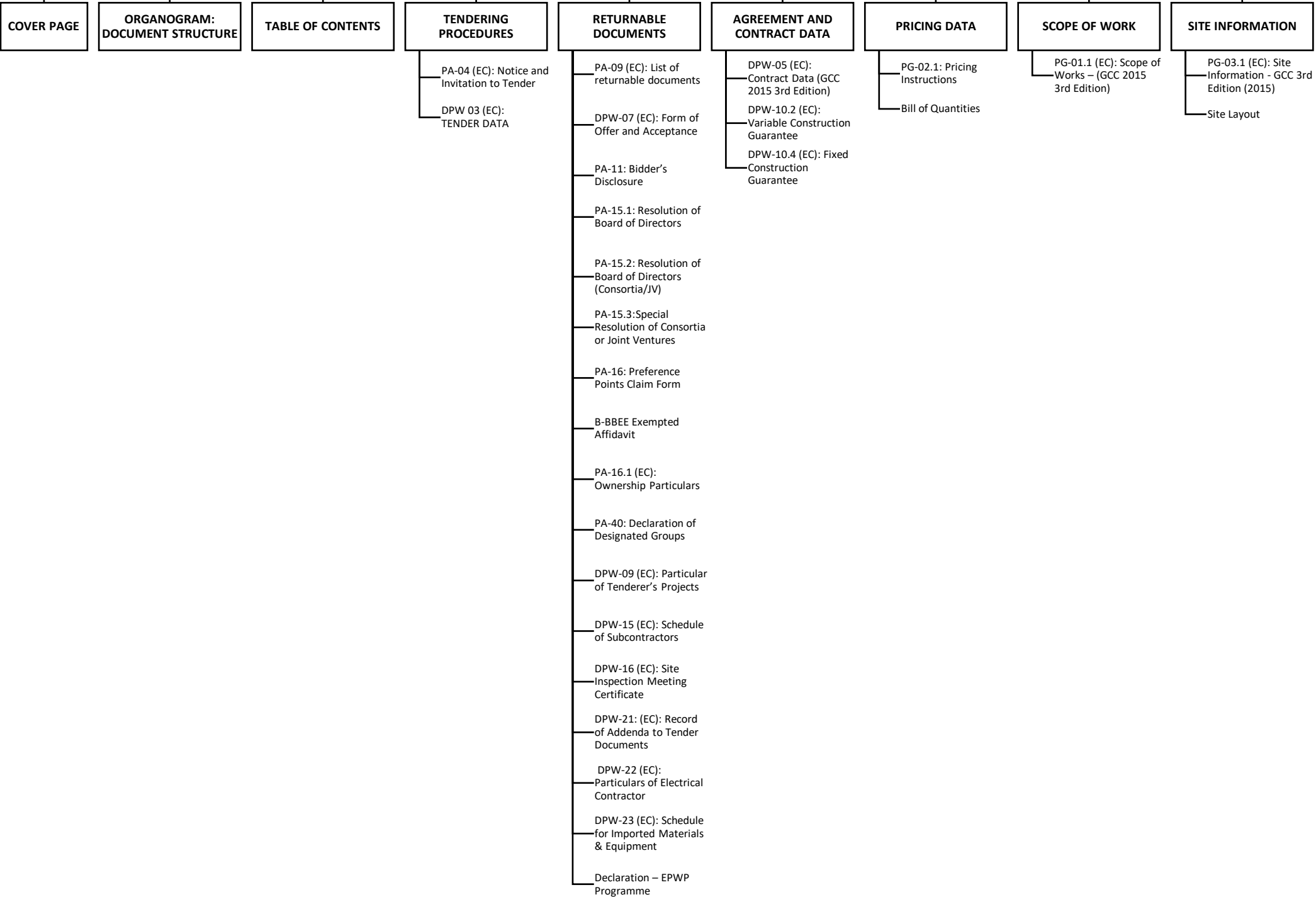
**Pretoria**

**0001**

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

RETURABLE DOCUMENT

REPAIR AND MAINTENANCE PROGRAMME CONTRACT  
DOCUMENT BREAKDOWN STRUCTURE



OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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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OSHOEK, NERSTON, WAVELY AND JOSEFDAL LAND PORTS OF ENTRY: 36 MONTHS  
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**OSHOEK, NERSTON, WAVELY AND JOSEFDAL LAND PORTS OF ENTRY: 36 MONTHS  
INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL,  
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(APPOINTMENT OF A CONTRACTOR)**

**THE TENDER**

**OSHOEK, NERSTON, WAVELEY AND JOSEFDAL 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>	OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	H24/019 AI	<b>Reference no:</b>	H24/019 AI
<b>Advertising date:</b>	26 AUGUST 2024	<b>Closing date:</b>	27 SEPTEMBER 2024
<b>Closing time:</b>	11:00am	<b>Validity period:</b>	84 Calendar days

## 1. REQUIRED CIDB GRADING

It is estimated that tenderers should have a CIDB contractor grading designation of **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".

<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> <ul style="list-style-type: none"> <li>(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.</li> <li>(ii) Site Agent with a minimum qualification of Diploma in Built Environment.</li> <li>(iii) 2 x Plumber (with a minimum NQF Level 1 or Higher or an Artisan Recognition of Prior Learning (ARPL)</li> <li>(iv) Process Controllers Class III, Class IV, and Class V (Supervisor) (All required)</li> <li>(v) 2 x Electrician (All required)</li> <li>(vi) 2 x Air- Conditioner Technician (All required)</li> <li>(vii) Health and Safety Officer or Health and Safety Manager. Health and Safety Officer or Manager must be registered with SACPCMP as professionals.</li> </ul> <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> <ol style="list-style-type: none"> <li>1. Information submitted for all seven (7) items listed above = 5 points</li> <li>2. Information submitted for any six (6) items listed above = 4 points</li> <li>3. Information submitted for any five (5) items listed above = 3 points</li> <li>4. Information submitted for any four (4) items listed above = 2 points</li> <li>5. Information submitted for any three (3) items listed above = 1 point</li> </ol> <p>No information or information for 1-2 items listed above submitted = 0 point</p>	<p><b>35</b></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 7 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 appointment letters. .</p> <ul style="list-style-type: none"> <li>(i) Five or more completed/current projects = 5 points</li> <li>(ii) Four completed/current projects = 4 points</li> <li>(iii) Three completed/current projects = 3 points</li> <li>(iv) Two completed/current projects = 2 points</li> <li>(v) One completed/current project = 1 point</li> </ul> <p>No information submitted = 0 point</p>	<p><b>25</b></p>

<p><b>9.3 EQUIPMENTS</b></p> <p>The bidders are to provide evidence of cleaning equipment, hand tools, machinery, utility vehicles, and instrumentations owned or to be hired/rented in order to carry out the project.</p> <p>Bidders are to complete and sign ANNEXURE A for cleaning equipment, Instrumentations, hand tools, machinery, and utility vehicles.</p> <p>Bidders are to submit proof of equipment and hand tools owned or to be rented/hired from suppliers. Copies of vehicle(s) registrations must be submitted or agreement.</p> <p>An agreement between the bidder and supplier for rentals/hired items must be submitted. (You're required to submit your firm's asset register or agreement between bidder and supplier for rentals)</p> <p>i. Cleaning Equipments ii. Instrumentations iii. Utility vehicles iv. Machinery v. Hand tools</p> <p>1. Information submitted for all five (5) items listed above = 5 points 2. Information submitted for any four (4) items listed above = 4 points 3. Information submitted for any three (3) items listed above = 3 points 4. Information submitted for any two (2) items listed above = 2 points 5. Information submitted for any one (1) item listed above = 1 point</p> <p>No information submitted = 0 point</p>	<p><b>15</b></p>
<p><b>9.4 BANK RATING</b></p> <p>The bidder is 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 vi) No Letter = 0 points</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><b>25</b></p>
<p><b>Total</b></p>	<p><b>100 Points</b></p>

(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)

<p><b>Minimum functionality score to qualify for further evaluation:</b></p>	<p><b>65</b></p>
<p>(Total minimum qualifying score for functionality is 50 Percent, any deviation below or above the 50 Percent, provide motivation below)</p>	
<p>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.</p>	

### 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 8 CE 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>



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>

	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>Not applicable</b>
(h)		<b>Select</b>
(i)		<b>Select</b>

## 9. COLLECTION OF TENDER DOCUMENTS

☒ Bid documents are available for free download on Departmental Website ([www.publicworks.gov.za](http://www.publicworks.gov.za)) and 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 **256 Madiba Street CGO Building**. 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>	OSHOEK PORT OF ENTRY		
<b>Virtual meeting link:</b>	N/A		
<b>Date:</b>	18 SEPTEMBER 2024	<b>Starting time:</b>	11H00 AM

## 11. ENQUIRIES

11.1. Technical enquiries may be addressed to:

<b>DPWI Project Manager</b>	Koketso Kgorane	<b>Telephone no:</b>	012 406 1127
<b>Cellular phone no</b>	082 957 3746	<b>Fax no:</b>	N/A
<b>E-mail</b>	Koketso.kgorane@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>	N/A	<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	<b>OR</b>	<b>Deposited in the tender box at:</b>  Department of Public Works Corner of Bosman and Madiba Street 256 Madiba Street Central Government Offices – CGO Building Corner of Bosman Madiba Street Room 121
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## DPW-03 (EC): TENDER DATA

<b>Project title:</b>	<b>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	<i>H24/019 AI</i>

<b>Tender / Quotation no:</b>	H24/019 AI	<b>Closing date:</b>	27 SEPTEMBER 2024
<b>Closing time:</b>	11:00am	<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>



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C.1.4	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</b>
	Fax:	<b>N/A</b>
	E-mail:	<b>amarunga@prociv.co.za</b>
C.2.1 C.3.11	<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>	



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

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

Functionality Criteria	Weighting Factor
<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.</p> <p>(ii) Site Agent with a minimum qualification of Diploma in Built Environment.</p> <p>(iii) 2 x Plumber (with a minimum NQF Level 1 or Higher or an Artisan Recognition of Prior Learning (ARPL)</p> <p>(iv) Process Controllers Class III, Class IV, and Class V (Supervisor) (All required)</p> <p>(v) 2 x Electrician (All required)</p> <p>(vi) 2 x Air- Conditioner Technician (All required)</p> <p>(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</p> <p>2. Information submitted for any six (6) items listed above = 4 points</p> <p>3. Information submitted for any five (5) items listed above = 3 points</p> <p>4. Information submitted for any four (4) items listed above = 2 points</p> <p>5. Information submitted for any three (3) items listed above = 1 point</p>	35

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	<p>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 7 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 appointment letters. .</p> <p>(i) Five or more completed/current projects = 5 points (ii) Four completed/current projects = 4 points (iii) Three completed/current projects = 3 points (iv) Two completed/current projects = 2 points (v) One completed/current project = 1 point</p> <p>No information submitted = 0 point</p>	<p>25</p>
	<p><b>9.3 EQUIPMENTS</b></p> <p>The bidders are to provide evidence of cleaning equipment, hand tools, machinery, utility vehicles, and instrumentations owned or to be hired/rented in order to carry out the project.</p> <p>Bidders are to complete and sign ANNEXURE A for cleaning equipment, Instrumentations, hand tools, machinery, and utility vehicles.</p> <p>Bidders are to submit proof of equipment and hand tools owned or to be rented/hired from suppliers. Copies of vehicle(s) registrations must be submitted or agreement.</p> <p>An agreement between the bidder and supplier for rentals/hired items must be submitted. (You're required to submit your firm's asset register or agreement between bidder and supplier for rentals)</p> <p>i. Cleaning Equipments ii. Instrumentations iii. Utility vehicles iv. Machinery v. Hand tools</p> <p>1. Information submitted for all five (5) items listed above = 5 points 2. Information submitted for any four (4) items listed above = 4 points 3. Information submitted for any three (3) items listed above = 3 points 4. Information submitted for any two (2) items listed above = 2 points 5. Information submitted for any one (1) item listed above = 1 point</p> <p>No information submitted = 0 point</p>	<p>15</p>
	<p><b>9.4 BANK RATING</b></p> <p>The bidder is 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>25</p>

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	<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  vi) No Letter = 0 points</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>	
	<b>Total</b>	<b>100 Points</b>

*(Weightings will be multiplied by the scores allocated during the evaluation process to arrive at the total functionality points)*

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

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			Or
			<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 (NCPDPA).</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**

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>

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				Or	
				<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>

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	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).

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## **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.

**OSHOEK, NERSTON, WAVELEY AND JOSEFDAL 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>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	H24/019 AI	<b>Reference no:</b>	H24/019 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.

Tender document name	Number of pages issued	Returnable document
Form of Offer and Acceptance (DPW-07 EC)	4 Pages	Yes
Submission of Bidder's disclosure (PA-11)	3 Pages	Yes
Resolution of Board of Directors (PA-15.1) <i>(if applicable)</i>	1 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)	6 Pages	Yes
Fully completed Declaration of Designated Groups for Preferential Procurement (PA 40)	2 Pages	Yes
Annexure A: Bidders evidence of instrumentations, hand tools, machinery, cleaning equipment and utility vehicles owned or to be hired/rented in order to carry out the project	3 Pages	Yes
Particulars of Tenderer's Projects (DPW-09 EC)	2 Pages	Yes
Submission of DPW-15 (EC): Schedule of Proposed Sub-contractors (Only if applicable)	1 Page	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 of imported Materials & Equipment (DPW-23 EC) <i>(if applicable)</i>	1 Page	N/A
EPWP Declaration: Fully Complete and sign EPWP Programme Declaration to ensure compliance	1 Page	Yes
Registration on National Treasury's Central Supplier Database (CSD).	-	Yes

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

**Tender / Quotation no:** H24/019 AI

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

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

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

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

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

Tender document name	Number of pages issued	Returnable document
Schedule of proposed sub-contractors (DPW-15 EC) ( <i>if applicable</i> )	1 Page	Yes
Particulars of Electrical Contractor (DPW-22 EC) ( <i>if applicable</i> )	1 Page	Yes
Mechanical / Electrical / Security Work material and equipment schedules ( <i>if applicable</i> )	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.	4 Pages	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**Tender / Quotation no:** H24/019 AI

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

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

Legal Status of Tendering Entity: If the Tendering Entity is:	Documentation to be submitted with the tender, or which may be required during the tender evaluation:
a. A close corporation, incorporated prior to 1 May 2011 under the Close Corporations Act, 1984 (Act 69 of 1984, as amended)	Copies of the Founding Statement – CK1
b. A profit company duly registered as a private company.  [including a profit company that meets the criteria for a private company, whose Memorandum of Incorporation states that the company is a personal liability company in terms of Section 8(2)(c) of the Companies Act, 2008 (Act 71 of 2008, as amended)].	Copies of: i. Certificate of Incorporation – CM1; ii. Shareholding Certificates of all Shareholders of the company, plus a signed statement of the company's Auditor, certifying each Shareholder's ownership / shareholding percentage relative to the total; and/or iii. Memorandum of Incorporation in the case of a personal liability company.
c. A profit company duly registered as a private company in which any, or all, shares are held by one or more other close corporation(s) or company(ies) duly registered as profit or non-profit company(ies).	Copies of documents referred to in a. and/or b. above in respect of all such close corporation(s) and/or company(ies).
d. A profit company duly registered as a public company.	Copy of Certificate of Incorporation – CM1, and a signed statement of the company's Secretary or Auditor confirming that the company is a public company.
e. A non-profit company, incorporated in terms of Section 10 and Schedule 1 of the Companies Act, 2008 (Act 71 of 2008, as amended).	Copies of: i the Founding Statement – CK1; and ii the Memorandum of Incorporation setting out the object of the company, indicating the public benefit, cultural or social activity, or communal or group interest.
f. A natural person, sole proprietor or a Partnership	Copy(ies) of the Identity Document(s) of: i. such natural person/ sole proprietor, or each of the Partners to the Partnership.
g. A Trust	Deed of Trust duly indicating names of the Trustee(s) and Beneficiary (ies) as well as the purpose of the Trust and the mandate of the Trustees.

### Signed by the Tenderer

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

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

<b>Project title:</b>	<b>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	H24/019 AI	<b>Reference no:</b>	H24/019 AI

### OFFER

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

**OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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.

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

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

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

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

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**Tender / Quotation no: H24/019 AI**

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

**SIGNED FOR THE TENDERER:**

Name of representative	Signature	Date

**WITNESSED BY:**

Name of witness	Signature	Date

This Offer is in respect of: (Please indicate with an "X" in the appropriate block)

- The official documents ..... ☐
- The official alternative ..... ☐
- Own alternative (only if documentation makes provision therefore) ..... ☐

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

**SECURITY OFFERED:**

- (a) the Tenderer accepts that in respect of contracts up to R1 million, a payment reduction\*\* of 5% of the contract 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 <input type="checkbox"/> No <input type="checkbox"/> |
| (2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT)  | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)   | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (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 <input type="checkbox"/> No <input type="checkbox"/> |
| (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 <input type="checkbox"/> No <input type="checkbox"/> |

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

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

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

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**Tender / Quotation no: H24/019 AI**

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

.....  
.....

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

Telephone No..... Cellular Phone No. ....

Fax No .....

Postal address .....

Banker ..... Branch.....

Registration No of Tenderer at Department of Labour .....

CIDB Registration Number: .....

**ACCEPTANCE**

By signing this part of this form of offer and acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the Tenderer's offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

**The terms of the contract are contained in:**

Part C1 Agreement and contract data, (which includes this agreement)

Part C2 Pricing data

Part C3 Scope of work

Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The Tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five (5) working days of the date of such receipt notifies the employer in writing of any reason why he/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

**For the Employer:**

Name of signatory	Signature	Date

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

\*\*Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"  
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**Tender / Quotation no: H24/019 AI**

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

**WITNESSED BY:**

Name of witness	Signature	Date

**Schedule of Deviations**

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

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

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

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

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

## 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
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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:**

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

**ENTERPRISE STAMP**

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

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

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

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

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

### RESOLVED that:

#### RESOLVED that:

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

\_\_\_\_\_

\_\_\_\_\_  
*(Project description as per Bid /Tender Document)*

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

PA-15.3: Special Resolution of Consortia or Joint Ventures

B. \*Mr/Mrs/Ms: \_\_\_\_\_

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

and who will sign as follows: \_\_\_\_\_

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

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

\_\_\_\_\_

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

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

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

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

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

\_\_\_\_\_

\_\_\_\_\_

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

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

\_\_\_\_\_

\_\_\_\_\_

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

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

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

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

	Name	Capacity	Signature
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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)	

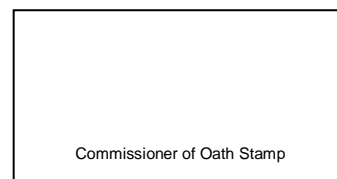
- 5) I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.

- 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>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>H24/019 AI</b>

### 1. PARTICULARS OF TENDERER

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

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

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

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

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

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

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

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

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

# where Owners are themselves a Company, Close Corporation, Partnership etc, identify the ownership of the Holding Company, together with Registration number

## state date of South African citizenship obtained

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

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

For Internal & External Use

Effective date January 2012

Page 2 of 6

Version: 2.0

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

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

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

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

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

**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: H24/019 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: **H24/019 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**

**Project** **OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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		
Office (soft indoor) Brooms, Yard (hard outdoor) Brooms, Corn Grass Brooms, Squeegees (to be continuously supplied and to be sufficient for the duration of the contract period)	30		
<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>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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:	H24/019 AI	Closing date:	27 SEPTEMBER 2024
Advertising date:	26 AUGUST 2024	Validity period:	84 days

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

#### 1.1. Current projects

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

## 1.2. Completed projects

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

Name of Tenderer	Signature	Date

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

<b>Project title:</b>	<b><i>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>H24/019 AI</i>	<b>Reference no:</b>	<i>H24/019 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>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>H24/019 AI</i>	<b>Reference no:</b>	<i>H24/019 AI</i>
<b>Closing date:</b>	<i>27 SEPTEMBER 2024</i>		

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

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

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

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

Name of Tenderer	Signature	Date

Name of DPW Representative	Signature	Date

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

<b>Project title:</b>	<b>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	<i>H24/019 AI</i>	<b>Reference no:</b>	<i>H24/019 AI</i>

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.		

Name of Tenderer	Signature	Date

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

Name of Tenderer	Signature	Date



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

<b>Project title:</b>	OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	H24/019 AI	<b>Reference no:</b>	H24/019 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>	OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	H24/019 AI	<b>Reference no:</b>	H24/019 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 : \_\_\_\_\_

**OSHOEK, NERSTON, WAVELY AND JOSEFDAL LAND PORTS OF ENTRY: 36 MONTHS  
INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL,  
ELECTRICAL AND INSTALLATIONS  
(APPOINTMENT OF A CONTRACTOR)**

**THE CONTRACT**

OSHOEK, NERSTON, WAVELEY AND JOSEFDAL 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>	OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>	H24/019 AI	<b>WCS no:</b>	056394	<b>Reference no:</b>	H24/019 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
OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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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## **A 2.0 Site [1.1.1.29]**

Erf / stand number	
Site address	OSHOEK, NERSTON, WAVELY AND JOSEFDAL LAND PORTS OF ENTRY
Township / Suburb	
City / Town	Badplaas
Province	Mpumalanga
Local authority	Gert Sibande District Municipality
GPS Coordinates	OSHOEK LPOE: 26.2127° S, 30.9887° E NERSTON LPOE: 26.5695° S, 30.7907° E WAVELY LPOE: 26.3275° S, 30.8885° E JOSEFDAL LPOE: 25.9434° S, 31.1183° E

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

### **A 3.1 Employer:**

Official Name of Organ of State / Public Sector Body	Government of the Republic of South Africa in its Department of Public Works & Infrastructure		
Business registration number	Not applicable	VAT number	Not applicable
E-mail	<a href="mailto:koketso.kgorane@dpw.gov.za">koketso.kgorane@dpw.gov.za</a>	Telephone	012 406 1127
Postal address	PRIVATE BAG X65 PRETORIA 0001		
Physical address	256 Madiba Street Pretoria Central Pretorial 0001		

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

Name	Koketso Kgorane	Telephone number	012 406 1127
E-mail	<a href="mailto:koketso.kgorane@dpw.gov.za">koketso.kgorane@dpw.gov.za</a>	Mobile number	082 957 3746
Postal address	PRIVATE BAG X65 PRETORIA 0001		
Physical address	256 Madiba Street Pretoria Central Pretorial 0001		

## Tender / Quotation no: H24/019 AI

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

Name	Prociv-KNA JV		
Legal entity of above	Prociv-KNA JV	Contact person	Mr. Antony Marunga
Practice number	N/A	Telephone number	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>	
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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 4.3</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: H24/019 AI

<b>A 4.4</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 4.5</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: H24/019 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		

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**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

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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
The project will be on a live site. The buildings will be occupied by the End User Clients during the entire duration of the contract	
Restriction of working hours [5.8]	Applicable
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:	

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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

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<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]	Repair Phase = 12 Months Entire Contract = 36 Months
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, <i><b>if completion in sections is required</b></i> , 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	All relevant CoCs
13.2	All As-built drawings
13.3	All guarantees and warranties



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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

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## 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> </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>BADPLASS, MPUMALANGA</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>BADPLASS, MPUMALANGA</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: H24/019 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: H24/019 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>Not applicable</i></b>
(h)		<b><i>Select</i></b>
(i)		<b><i>Select</i></b>



**Tender / Quotation no: H24/019 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: H24/019 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: H24/019 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:  
**H24/019 AI, for the OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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

Tender no: H24/019 AI

GCC (2015) 3<sup>rd</sup> Edition 2015

be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);

(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: H24/019 AI

GCC (2015) 3<sup>rd</sup> Edition 2015

By and on behalf of:

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

(insert the name and physical address of the guarantor)

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

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

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

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

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

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

### FOR ATTENTION

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

Sir,

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

- With reference to the contract between \_\_\_\_\_  
\_\_\_\_\_ (hereinafter referred to as the “**contractor**”) and the Government of the Republic of South Africa in its Department of Public Works and Infrastructure (hereinafter referred to as the “**employer**”), Contract/Tender No: **H24/019 AI**, for the **OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**.
- 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: **H24/019 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: **H24/019 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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OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**



OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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><i>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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:	H24/019 AI	Reference no:	H24/019 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 to be reconciled upon completion of the project and form part of the final account. Allowance must be made for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### Payment

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**The National Youth Service Training and Development Programme is *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 *not 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.

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**

**CALCULATION OF TENDER SUMMARY**

**TENDER AMOUNTS**

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 _____

<b>TOTAL OF SCHEDULE OF QUANTITIES</b>	<b>R _____</b>
15 % VALUE-ADDED TAX (VAT)	R _____
<b>TOTAL TENDER AMOUNT</b>	<b>R _____</b>

SIGNED ON BEHALF OF TENDERER: \_\_\_\_\_

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**

**CIVIL REPAIR WORK**

SCHEDULE NO 1: GENERAL

R .....

SCHEDULE NO 2: CONTRACT PARTICIPATION GOAL

R .....

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

R .....

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

R .....

SCHEDULE NO 3.3: INSTALLATION CR3: FENCING, CLEANING AND SITE KEEPING

R .....

SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEM AND EXTERNAL

R .....

SCHEDULE NO 3.5: INSTALLATION CR5: WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

R .....

SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

R .....

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

R .....

SIGNED ON BEHALF OF TENDERER:

.....

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL LAND PORTS OF ENTRY: 36 MONTHS INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL, ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

BILL OF QAUNTITIES

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

						<b>CIVIL REPAIR WORK</b>
	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
		<b>SCHEDULE OF QUANTITES No.: 01 PRELIMINARY AND GENERAL ITEMS</b>				
	<b>100.00</b>	<b>GENERAL</b>				
	<b>100.01</b>	<b>Scheduled fixed-charge and value related items</b>				
		0.01 Fixed preliminary and general charges for all four (04) Border Posts	Sum	1.00		
	<b>100.02</b>	<b>Scheduled time related items</b>				
		0.01 Oshoek Port of Entry	Month	36.00		
		0.02 Nerston Port of Entry	Month	36.00		
		0.03 JOSEFDAL Port of Entry	Month	36.00		
		0.04 WAVELY Port of Entry	Month	36.00		
	<b>101.00</b>	<b>TEMPORARY WORKS</b>				
	<b>101.01</b>	<b>Location and Protection of existing</b>				
		0.01 Water and sewer pipes	Sum	1.00		
		0.02 Electrical and other cables	Sum	1.00		
	<b>101.02</b>	<b>Hand execution necessary for locating and exposing existing services in all material:</b>				
		0.01 in roadways	m3	80.00		
		0.02 in all other areas	m3	80.00		
	<b>101.03</b>	<b>Additional tests</b>				
		0.01 Additional tests required by the Engineer	PC sum	1.00	R      80,000.00	R      80,000.00
		0.02 Attendance and profit	%	R      80,000.00		
	Carried forward					



**SCHEDULE NO 1: PRELIMINARY AND GENERAL**

						<b>CIVIL REPAIR WORK</b>
	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	Brought forward					
	<b>101.04</b>	<b>Call Centre:</b>				
		0.01 Call centre for breakdown calls logged	PC sum	1.00	R 200,000.00	R 200,000.00
		0.02 Charge required by Contrator on subitem	%	R 200,000.00		
	101.05	Supply a complete Updated site plan for Oshoek Port of Entry	Sum	1.00		
	101.06	Supply a complete Updated site plan for Nerston Port of Entry	Sum	1.00		
	101.07	Supply a complete Updated site plan for JOSEFDAL Port of Entry	Sum	1.00		
	101.08	Supply a complete Updated site plan for WAVELY Port of Entry	Sum	1.00		
	<b>102.00</b>	<b>PRIME COST SUMS</b>				
		0.01 Housing for the Engineer's representative	PC Sum	1.00	R 350,000.00	R 350,000.00
		0.02 Charge required by Contractor on subitem 0.1 above	%	R 350,000.00		
		.03 Survey assistants and materials	PC Sum	1.00	R 396,000.00	R 396,000.00
		.04 Charge required by Contractor on sub item	%	R 396,000.00		
	<b>102.01</b>	<b>OCCUPATIONAL HEALTH AND SAFETY</b>				
		0.01 Preparation of Health and Safety file	Sum	1.00		
		0.02 Compliance with OHS Act and Construction Regulations 2014	Month	36.00		
	<b>103.00</b>	<b>PEST CONTROL</b>				
		0.01 Administer pest control to buildings	PC Sum	1.00	R 200,000.00	R 200,000.00
		0.02 Charge required by contractor on sub item 0.01 above	%	R 200,000.00		
	Carried forward					

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

						CIVIL REPAIR WORK
	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
SN		<b>Expanded Public Works Programme EMPLOYMENT AND TRAINING OF EPWP WORKERS</b>				
SN10.02		Off site for: travelling, accommodation and advance meal allowance during:				
		<b>.01 Employment of Youth Workers:</b> The unit of measurement shall be the number of Youth Workers (25) at the statutory labour rates of R15,16 per hour (R3153.28 per month) 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. This item is based on 12 Months appointment for youth workers with a possible 24 month extension approved by Department Public Works and Infrastructure PM. Plus % Annual Escalation (to Ministerial determination). Employment of EPWP workers: 20 workers x 12 month a Plus 5% Annual Escalation	PC Sum	1	R 768,000.00	R 768,000.00
		.02 Profit and attendance on .01	%	R 768,000.00		
	1.00	<b>TRAINING OF YOUTH WORKERS (TARGET: 20 YOUTH WORKERS)</b>				
	1.01	<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 10 days per youth worker	PC Sum	1	R 300,000.00	R 300,000.00
629757.05		.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 750,000.00		
SN 07.01		.04 Penalty due to not meeting the target	Youth-Worker	1	R 2,700.00	Rate Only
	Carried forward					

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

						CIVIL REPAIR WORK
	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
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 65,000.00	R 65,000.00
		.06 Profit and attendance for administration of items .05 above	%	R 65,000.00		
SN10.01.04		.07 The above formal training, shall be provided	Sum	1		
	2.00	<b><u>TRAVELLING AND ACCOMMODATION DURING OFF-SITE TRAINING</u></b>				
		<b><u>Life Skills Training for 30 days (ref. SN 10.01.01)</u></b>				
SN 10.01.01		.01 Travelling (based on 50 km/youth worker)	PC Sum	1	R 80,000.00	R 80,000.00
		.02 Accommodation (based on R300/youth worker)	PC Sum	1	R 64,000.00	R 64,000.00
		.03 Profit and attendance for administration of items .01 and .02 above	%	R 144,000.00		
		.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 04.02		Tender Sum excl. VAT & CPA		
SN10.02.02	3.00	<b><u>SKILLS DEVELOPMENT AND TECHNICAL TRAINING</u></b>				
		.01 Travelling (based on 50 km/youth worker)	PC Sum	1	R 80,000.00	R 80,000.00
		.02 Accommodation (based on R300/youth worker)	PC Sum	1	R 80,000.00	R 80,000.00
		.03 Profit and attendance for administration of item 01 and .02 above	%	R 160,000.00		
	4.00	<b><u>ALTERNATIVE WORKERS FOR THE PERIOD OF OFF-SITE TRAINING</u></b>				
SN 10		Skills Development and Technical training for youth workers for 10 days (ref. SN 10.01.02)	Worker-days	100		
	Carried forward					

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

SCHEDULE NO 1: PRELIMINARY AND GENERAL						CIVIL REPAIR WORK
	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
SN10.04.01	112.00	<b><u>PROVISION OF EPWP DESIGNED OVERALLS AND HARD HATS AND SAFETY BOOTS (PPE) TO EPWP WORKERS</u></b>				
		.01 Supply 2 x EPWP branded overalls to each EPWP worker (ref. SN 10.04.01)	PC Sum	1	R 80,000.00	R 80,000.00
		.02 Supply 1 x EPWP branded hard hat to each EPWP worker (ref. SN 10.04.02)	PC Sum	1	R 8,000.00	R 8,000.00
		.03 Supply 1 x pair of safety boots to each EPWP worker (ref. SN 10.04.03)	PC Sum	1	R 40,000.00	R 40,000.00
SN10.04.04		.04 Profit and attendance for administration of items .01, .02 and .03 above	%	R 128,000.00		
SN 05	113.00	<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 @ R 1 500 / worker (25)	PC Sum	1	R 30,000.00	R 30,000.00
		.02 Profit and attendance for administration of	%	R 30,000.00		
		.01 Appointment of Youth Team Leader/s for the duration of the contract 6 Months	PC Sum	1	R 18,000.00	R 18,000.00
SL11.08		.02 Profit and attendance for administration of items .01 above	%	R 18,000.00		
		.03 Liaison with Service Provider	Hours	150		
	Carried forward					

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

						CIVIL REPAIR WORK
	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	104.00	<b>HIV/AIDS AWARENESS</b>  It is required of the Contractor to thoroughly study the additional specification SH: HIV/AIDS Requirements (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under the items hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard. The Contractor must take note that compliance with the HIV/AIDS specification is compulsory. In the event of partial or total non-compliance, the Representative/agent, notwithstanding the provisions of Clause 52 of the General Conditions of Contract for Works of civil engineering Construction or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. the contractor shall not be entitled to any compensation of whatsoever nature, including interest due to such delay of				
		0.01 Awareness Champion	Sum	1.00		
		Selection, appointment, briefing and making available of an awareness Champion including provision of all relevant services				
		0.02 Awareness Workshop	Sum	1.00		
		Selection and appointment of a competent service Provider Workshop Plan and suitable venue, conducting of awareness workshops by means of traditional and for modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures				
	104.00	0.03 Posters, Booklets, Videos, etc.	Sum	6.00		
	Carried forward					

## SCHEDULE NO 1: PRELIMINARY AND GENERAL

SCHEDULE NO 1: PRELIMINARY AND GENERAL						CIVIL REPAIR WORK
	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc for the duration of the construction period.				
		0.04 access to Condoms	Sum	36.00		
		Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on daily basis as required for the duration of the construction period				
		0.05 Monitoring	Sum	36.00		
		Monitoring HIV/AIDS awareness of workers, providing the Representative/Agent with access to information including making available all reports, thoroughly completed and reflecting the information, for the				
	105.00	BMA CONTINGENCY INFRASTRUCTURE				
		0.01 Provide facilities for BMA contingency	PC Sum	1.00	R 450,000.00	R 450,000.00
		0.02 Charge required by Contractor on subitem 0.01 above	%	R 450,000.00		
	TOTAL	SCHEDULE NO 1: PRELIMINARY AND GENERAL - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/017AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 LIAISON OFFICER (CLO)</b>  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				
	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		
Carried forward						

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

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>PROCUREMENT OF CONSTRUCTION MATERIAL FOR THE CONTRACT PARTICIPATION GOAL</b>				
	1	Provide the sum of R 2 000 000,00 (Four Million Rands) for the procurement of construction material		1.0	R 2,000,000.00	R 2,000,000.00
	2	.01 Profit	%	R 2,000,000.00		
	3	.02 Attendance	%	R 2,000,000.00		
		<b>CLERK OF WORKS</b>				
	1	Provide the sum of R120 000,00 (One hundred and twenty 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>				
	1.1	Provision is made for the Minimum Targeted Local Building Material Manufacturers CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.2 Material of the value of R 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.				
	1.2	Allowance for monitoring and monthly reporting on materials purchased from Local Building Material Manufacturers by main contractor and subcontractors.	%	R 2,000,000.00		
	1.3	Allowance for profit, all inclusive of associated costs to the contractor for implementation.	%	R 2,000,000.00		
Carried forward						



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

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						
	1.4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 2,000,000.00		
	2	<b>MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS</b>				
	2.1	Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.2. Material to the value of R 3 500 000,00 should be purchased from local suppliers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables.				
	2.2	Allowance for monitoring and monthly reporting on materials purchased from Local Building Material Suppliers by main contractor and subcontractors.		R 2,000,000.00		
	2.3	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 2,000,000.00		
	2.4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 2,000,000.00		
	3	<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 500,000.00	R 500,000.00
	3.2	Allowance for monitoring and monthly reporting on training provided by main contractor and subcontractors.	%	R 500,000.00		
	3.3	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 500,000.00		
	3.4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 500,000.00		
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>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 500,000.00	R 500,000.00
	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 600,000.00	R 600,000.00
	4.3	Allowance for monitoring and monthly reporting on SMME subcontracting by main contractor and subcontractors including training provided.	%	R 1,100,000.00		
	4.4	Allowance for profit all inclusive of associated costs to the contractor for implementation.	%	R 1,100,000.00		
	4.5	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 1,100,000.00		
	<b>5</b>	<b>MINIMUM TARGETED SKILLS DEVELOPMENT GOALS</b>				
	5.1	A provisional amount has been allowed for the Minimum Targeted Development CPG in the execution of this project as described in PG-01.1 (EC) / PG-01.2 (EC) SCOPE OF WORKS C3.7.5.  <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 520,000.00	R 520,000.00
	5.2	Allowance for monitoring and monthly reporting on skills development by main contractor and subcontractors.	%	R 520,000.00		
Carried forward						

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

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						
	5.3	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 520,000.00		
	5.4	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 520,000.00		
	<b>6</b>	<b>LABOUR INTENSIVE PARTICIPATION GOAL</b>				
		Labour Intensive Participation Goal - Labour in intensive works to the value of R 1 500,000.00 should be purchased from local suppliers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors				
	6.1	Allowance for monitoring and monthly reporting on skills development by main contractor and subcontractors.	%	R 1,500,000.00		
	6.2	Allowance for attendance all inclusive of associated costs to the contractor for implementation.	%	R 1,500,000.00		
	7	Enterprise Development of Targeted Enterprise or JV partners				
	7.1	Appointment of training co-ordinator (As determined by the PQS)	No.	12.0		
	7.2	Appointment of Mentor /Training Service	No.	12.0		
	7.3	Needs Analysis and Enterprise Development Plan per Targeted Enterprise (As determined by the PQS)	No.	4.0		
	7.4	Monitoring and Interim reporting per targeted enterprise (As determined by the PQS)	No.	12.0		
	7.5	Project Completion report per Targeted Enterprise (As determined by the PQS)	No.	4.0		
	<b>TOTAL</b>	<b>SCHEDULE 2 : CONTRACT PARTICIPATION GOALS (CPG) AND CIBD BUILD PROGRAMME - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 CR1: STRUCTURAL AND BUILDING

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	200.00	BA : ROOFS				
	200.00	CLADDING AND SHEETING				
	200.01	Supply and install cladding and sheeting.				
		0.01 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:				
		0.01 Roof covering with pitches exceeding 15°, fixed to timber or steel purlins	m2	1,750.00		
	200.02	Carefully remove existing cladding and sheeting				
		0.10 Existing galvanised sheet metall roof covering removed from timber or steel purlins or girts	m2	1,950.00		
	200.03	Supply and install sundry items, etc:				
		0.01 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 BA 03.01				
		Ridge flashing	m	110.00		
		side wall flashing	m	110.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR WORK	
AMOUNT	

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		<b>0.02 Fibre cement with metal H-profile jointing strips:</b>				
		0.01 6mm ceilings	m2	-		
		0.02 Extra over 6,4 mm ceiling for trap door with framing	m2	-		
		<b>0.03 Gypsum cornices.</b>				
		0.01 76 mm gypsum coved cornices	m	-		
		<b>ALTERATION WORK</b>				
	<b>201.20</b>	<b>Alterations and repairs to existing Structures:</b>				
		<b>0.01 Remove:</b>				
		0.01 Softboard, plaster board or fibre cement ceiling boards including cornices cover and jointing strips	m2	723.00		
		0.02 76 mm gypsum coved cornices	m2	36.00		
	<b>202.00</b>	<b>BD: WALLS</b>				
		<b>NEW WORK</b>				
		<b>EARTHWORKS (SMALL WORKS)</b>				
	<b>202.01</b>	<b>SCHEDULED ITEMS</b>				
		0.01 Excavate for restricted foundation, footings and trenches in all materials and for backfill or embankment or dispose.	m3	10.00		
	<b>202.20</b>	0.02 Break up, hack of and remove existing concrete	m3	-		
		0.03 Importing, placing and compacting approved G6 material from commercial sources or from borrow pits to 95% MOD AASTHO.	m3	50.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>CONCRETE (STRUCTURAL)</b>				
		<b>SCHEDULED CONCRETE ITEMS</b>				
	<b>202.03</b>	<b>Strength Concrete:</b>				
		0.01 Class 20 Mpa Concrete	m3	1.00		
		0.02 Class 25 Mpa concrete to scheduled items including ramps	m3	5.00		
		<b>SCHEDULED REINFORCEMENT</b>				
	<b>202.04</b>	<b>High-tensile steel welded mesh and steel bars</b>				
	202.04	0.01 Ref No 193 mesh in Concrete	m2	6.00		
		0.02 Ref No 245 mesh in concrete	m2	6.00		
		0.03 Y12 high tensile steel bars	m	210.00		
		<b>BUILDING WORK</b>				
	<b>202.05</b>	<b>Doors and windows:</b>				
		<b>0 01 Steel door frames</b>				
		0.01 1,6 mm thick pressed steel door frame for	Number	4.00		
		<b>0.02 Steel garage doors and frames</b>				
		0.01 CHROMADEK steel roll up door withh frame and locking device for 2400 mm x 2135 mm high opening in 230 mm walls	Number	8.00		
	<b>202.06</b>	<b>Joinery:</b>				
		<b>0.10 Items measured by number</b>				
		0.01 Solid laminated door, 40 mm thick x 813 mm wide x 2032 mm high with meranti veneer both sides	Number	10.00		
		0.02 Semi-solid core flushpanel door, 40 mm thick x 813 mm wide x 2032 mm high with meranti veneer both sides	Number	4.00		
		0.03 Framed, ledged and braced batten hardwood door, 40 mm thick x 813 mm wide x 2032 mm high with splayed wehter board	Number	8.00		
		Carried forward				

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	202.07	Ironmongery, Steelwork, glass, wall finishings, etc				
		0.01 Items measured by number				
		0.01 Cupboard pull handles	Number	30.00		
		0.02 Standard brass peg and stay to residential steel windows	Number	30.00		
	202.07	0.01 0.03 Standard brass sliding stay to residential steel windows	Number	10.00		
		0.04 Residential type steel window handle	Number	10.00		
		0.05 100 mm brass barrel bolt	Number	4.00		
		0.06 cupboard door lockset	Number	30.00		
		0.07 Four lever mortice lockset with one pair handles chrome type B2088, two keys, back plates and striking plate	Number	40.00		
		0.08 Four lever mortice lockset with one pair anodised aluminium handles type B2085, two keys, back plates and striking plate	Number	40.00		
		0.09 Four lever mortice lockset with one pair anodised aluminium handles and back plate type B2086, two keys, back plates and striking plate	Number	16.00		
		0.10 Cylinder lever lockset with one pair handles chrome type B2088, two keys, back plates and striking plate	Number	12.00		
	B22.32	0.11 Indicator bolt with one pair anodised aluminium handles type B2085, display back plates and striking plate	Number	16.00		
		0.12 facility indicator bolt for disabled facilities with one pair anodised aluminium handles type B2581, display back plates and striking Plate	Number	1.00		
	Carried forward					



## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	202.07	0.13 Anodised aluminium door handles type B2085	Number	5.00		
		0.14 Striking plate for single door	Number	5.00		
		0.15 6 mm thick mirror glass 450mm x 300 mm wide	Number	5.00		
		0.16 washing line with 2 fully galvanised posts and stays, 5m apart and 4 plastic coated washing lines complete with straining bolts concrete base, etc	Number	-		
		0.01 0.17 Stainless steel single toilet tissue holder	Number	8.00		
		0 18 Aluminium weather strips	Number	8.00		
		0.19 Rubber door stops	Number	10.00		
		0.20 150 mm Natural Anodised Aluminium disabled sign type B2312 or similar approved	Number	1.00		
		0.21 150 mm Natural Anodised Aluminium male sign type B2312 or similar approved	Number	1.00		
		0.22 150 mm Natural Anodised Aluminium female sign type B2314 or similar approved	Number	1.00		
		0.23 150mm Natural Anodised Aluminium no entry or exit sign type B2315 or similar approved	Number	4.00		
		0.24 175 mm high Aluminium number signage to be securely fitted to external walls at residential buildings	Number	12.00		
		0.25 standard arm door closer, with adjustable closing speed speed, adjustable hydraulic latch action, suitable for doors up 1100 mm	Number	1.00		
		0.26 Aluminium sliding Shower door "TRI-GLIDE" with range of up 1050 mm wide x 1800 mm high	Number	1.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	202.07	0.03 Burglar bars consisting of 12 mm thick steel rods, burglar bar type BB25 or similar approved, welded into one window opening on site per frame as stated below				
		0.01 Window size 949 mm high x 1511 mm wide	Number	2.00		
		0.02 Window size 949mm high x 533 mm wide	Number	2.00		
		0.04 Items measured by linear metre				
		0.01 Silicone sealant in 6 mm contact joint between sanitary fittings and wall finishes	m	60.00		
		0.02 Polyurethane/Polysuphide sealant in 12 mm expansion joint in face brick walls	m	60.00		
		0.03 Putty in patchwork to steel sashes	m	60.00		
		0.04 Regular duty double curtain track including gliders, hangers, brackets, stopped ends, etc	m	20.00		
		0.05 230 mm wide face brick roller course	m	12.00		
		0.05 Items measured by area:				
		0.01 6mm thick white glazed wall tiles similar	m2	36.00		
		0.02 4 mm clear float glass to steel sashes with putty	m2	10.00		
		0.03 4 mm obscure glass to steel sashes with putty	m2	10.00		
		0.04 115 mm thick brick walls	m2	20.00		
		0.05 230 mm thick brick walls	m2	400.00		
		0.06 230 mm thick face brick walls Buff Satin-FBS or similar approved	m2	15.00		
		0.07 Internal cement plaster to walls	m2	650.00		
	202.07	0.08 External cement plaster to walls	m2	174.00		
		0.09 6mm clear float laminated glass	m2	5.00		
		Carried forward				

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>ALTERATION WORK</b>				
		<b>Alterations and repairs to existing structures:</b>				
		<b>0.01 Repair and refix:</b>				
		0.01 Single doors	Number	48.00		
		0.02 Double doors	Number	12.00		
		0.03 Window frames	Number	14.00		
		0.04 Door frames	Number	14.00		
		0.05 Aluminium or steel flyscreen door	Number	6.00		
		0.06 Tip up single garage door including servicing opening mechanisms, locks, etc	Number	24.00		
		0.07 Aluminium sliding Shower door	Number	28.00		
		<b>0.02 Remove</b>				
		0.01 Timber single door	Number	8.00		
		0.02 Timber double door	Number	8.00		
		0.03 Cupboard lockset	Number	8.00		
		0.04 Mortice lockset with handles	Number	30.00		
		0.05 Peg and stay to residential steel	Number	18.00		
		0.06 Sliding stay to residential steel window	Number	18.00		
		0.07 Residential type steel window handle	Number	18.00		
		<b>0.03 Break out/hack up/demolish and remove</b>				
		0.01 Half brick walls	m2	20.00		
		0.02 One brick walls	m2	308.00		
		0.03 External plaster to walls	m2	45.00		
	202.07	0.05 0.08 External cement plaster to walls	m2	30.00		
		0.09 6mm clear float laminated	m2	10.00		
		Carried forward				

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		<b>ALTERATION WORKS</b>				
	202.08	<b>Alterations and repairs to existing structure:</b>				
		<b>0.01 Repairs and refix</b>				
		0.01 Single doors	Number	20.00		
		0.02 Double doors	Number	10.00		
	202.09	0.03 Window frames	Number	10.00		
		0.03 Window frames	Number	10.00		
		0.04 Door frames	Number	10.00		
		0.05 Aluminium or steel flyscreen doors	Number	6.00		
		0.06 Tip up single garage door servicing opening mechanisms, locks, etc	Number	10.00		
		0.07 Aluminium sliding Shower door	Number	20.00		
		<b>0.02 Remove:</b>				
		0.01 Timber single door	Number	2.00		
		0.02 Timber double door	Number	2.00		
		0.03 Cupboard lockset	Number	2.00		
		0.04 Mortice lockset with handles	Number	30.00		
		0.05 Peg and stay to residential steel window	number	10.00		
		0.06 Sliding stay to residential steel window	Number	10.00		
		0.07 Residential type steel window handle	Number	10.00		
		<b>0.03 Break out/hack up/demolish and remove</b>				
		0.01 Half brick walls	m2	10.00		
		0.02 one brick walls	m2	10.00		
		0.03 External plaster to walls	m2	15.00		
	202.08	0.04 Internal plaster to walls	m2	25.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		0.05 6 mm thick glazed ceramic wall tiles including cement dagha bed	m2	20.00		
		0.06 Damaged sections of putty in steel sashes	m	80.00		
		0.07 4 mm clear float glass to steel sashes with putty	m2	10.00		
		0.08 4 mm obscure glass to steel sashes with putty	m2	10.00		
		0.09 Take out and remove windows and doors from brickwork and	Number	10.00		
		0.10 Tip up garage door with frame size 2400 mm x 2135 mm high from 230 mm wall	Number	1.00		
		0.11 1,6 mm thick pressed steel door frame for door size 813 mm x 2032 mm high suitable for 230 mm wall	Number	1.00		
		<b>0.04 Clean existing surfaces:</b>				
		0.01 White glazed tiles to walls including cleaning and refilling of joints	m2	150.00		
		<b>0.05 Repair and seal</b>				
		0.01 Crack in plastered wall	m	100.00		
		0.02 Crack in face brick wall	m	100.00		
	<b>203.00</b>	<b>BE: FLOORS</b>				
		<b>EARTHWORKS (SMALL WORKS)</b>				
		<b>SCHEDULED ITEMS</b>				
	<b>203.01</b>	<b>Restricted excavation:</b>				
		0.01 Excavate for trenches, footings and foundations in all materials and use for backfill or embankment or dispose	m3	147.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>BUILDING WORK</b>				
	<b>203.02</b>	<b>Floor screeds:</b>				
		.01 35 mm thick granolithic screed finish	m2	28.00		
	<b>203.03</b>	<b>Joinery:</b>				
		<b>.01 Items measured by linear metre:</b>				
		0.01 19 mm x 76 mm hardwood skirting with quadrant bead	m	40.00		
		0.02 75mm x 10 mm Ceramic floor tiles in skirtings	m	250.00		
	<b>203.04</b>	<b>Floor tiling and finishes. etc:</b>				
	<b>203.04.01</b>	<b>Items measured by area:</b>				
		0.01) 250 micron damp proofing under solid floors	m2	660.00		
		0.02) 2,5 mm thick semi-flexible vinyl floor tiles	m2	8.00		
		0.03) 6mm thick mosaic floor tiles as approved by Engineer	m2	30.00		
		0.04) 410 mm x 410 mm x 6 mm Ceramic floor tiles	m2	650.00		
		0.05) Pavelite or equal approved skim coat to receive vinyl floor tiles	m2	4.00		
		<b>ALTERATION WORK</b>				
	<b>203.05</b>	<b>Alterations and repairs to existing structures:</b>				
		<b>.01 Remove</b>				
		Vinyl floor tiles	m	500.00		
		<b>.02 Break out/hack</b>				
		Cement plaster screed on floors	m2	2,250.00		
	203.05	02 .02 Ceramic tiles to floors in patches	m2	200.00		
		Carried forward				

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		0.03 Refix, sand down to smooth and even surface and seal with approved sealer as described in Item BE 03.01.11 of the Project Specification				
		0.02 Wood block flooring	m2	20.00		
		04 Cleaning and sealing of floor surfaces				
		01 Vinyl floor tiles as per technical specification BE 06.01.01 for cleaning	m2	600.00		
	204.00 BH:	FITTINGS				
	204.01	Steelwork and joinery:				
		.01 Items measured by number:				
		.01 Standard approved hardwood veneered particle board				
		.01 Kitchen cupboard door	number	40.00		
		.02 Kitchen cupboard drawer	number	40.00		
		.02 Cupboard ironmongery 0.8mm thick steel baked enamel with 32mm Formica tops				
		.01 Hinge for kitchen cupboard door	number	10.00		
		.02 Kitchen cupboard pull handles	number	20.00		
		.03 Wall unit size 1 500 mm x 300 mm x 580 mm high with three doors and one shelf	number	27.00		
		.04 Wall unit size 1 800 mm x 300 mm x 580 mm high with four doors and one shelf	number	27.00		
		.05 Base unit size 1 500 mm x 533 mm x 865 mm high with three doors, three drawers and one shelf	number	27.00		
	204.01	0.06 Base unit size 1 800 mm x 533 mm x 865 mm high with four doors, four drawers and one shelf	number	27.00		
		.07 Base double bowl sink unit size 1500 mm x 533 mm x 865 mm high with three doors, and one shelf	number	27.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.08 Base double bowl sink unit size 1300 mm x 533 mm x 865 mm high with three doors, and one shelf	number	29.00		
		<b>.03 Items measured by linear metre:</b>				
		.01 32 mm chipboard with "Formica" laminated finish on one side and profiled edges where so described	m	29.00		
		.02 Work top 600 mm wide with profiled front edge and fitted on top of kitchen cupboard floor unit 32 mm x 1,2 mm "Formica" veneered edge strips	m	10.00		
		<b>.04 32 mm Meranti counter and profiled edges where so described:</b>				
		<b>.01 Work top 600 mm wide with profiled front edge</b>				
		<b>ALTERATION WORK</b>				
	204.02	Alterations and repairs to existing fittings:				
		<b>1 Service, repair and refix kitchen cupboards as per Project Specification BH 03.01.02</b>				
		.01 Kitchen cupboard door	number	265.00		
		.02 Kitchen cupboard drawer including	number	265.00		
		<b>.02 Removal of existing steel or wooden kitchen cupboards</b>				
		0.01 Sink unit up to 2000mm long	number	265.00		
		.02 Base unit up to 2000mm long	number	265.00		
		.03 Wall unit up to 2000mm long	number	265.00		
		<b>Supply, delivery, installation, commissioning and testing of kitchenettes as specified below.</b>				
		<b>.01 Steel Unit Specifications: Steel 0.8 mm Cold Roll Steel</b>				
		<b>Length: 2000mm</b>				
		<b>Width: 600mm</b>				
		<b>Height: up to 1100mm</b>				
		<b>Drawer Runner: Full Length Nylon</b>				
		Carried forward				



## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

CIVIL REPAIR WORK					
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE
		Brought forward			
		Paint Finish: Epoxy Powder Coating			
		Single bowel sink: Grade 430 Stainless Steel			
		Work Tops: 32 mm "Formica Post Form"			
		Colour Of Units and Doors: White			
		Colour Off Work Tops: Grey	Number	10.00	
	205.00	PREVIOUSLY PAINTED SURFACES			
	205.01	Paint to previously painted surfaces:			
		.01 Concrete surfaces:			
		.02 Alkali resistant solvent based (modified alkyd) stoep paint,			
		.01 Floors	m2	200.00	
		.02 Window sills, etc	m2	200.00	
		.02 Plaster surfaces:			
		.01 Interior quality acrylic emulsion paint with smooth sheen appearance			
		.01 Walls residential areas	m2	9,400.00	
		.02 Walls operational areas	m2	9,400.00	
		.02 Exterior quality pure acrylic emulsion paint with Teflon			
		.01 Walls and piers residential areas	m2	3,150.00	
		.02 Walls and piers operational areas	m2	2,450.00	
		.03 Ceiling			
		.01 Buildings in residential areas	m2	9,400.00	
		.02 Buildings in operational areas	m2	3,150.00	
		.04 Roofs (Clean and prepare surface and apply 2 coats of quality acrylic emulsion on existing ceiling)			
		.01 Buildings in residential areas - GI sheeting	m2	5,800.00	
		.02 Buildings in residential areas - Concrete tiles	m2	5,800.00	
		03 Buildings in operational areas - GI sheeting	m2	2,000.00	
		04 Buildings in operational areas - Concrete tiles	m2	2,000.00	
		Carried forward			

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		.05 Protective and decorative solvent based polyurethane alkyd semi gloss non-drip enamel paint:				
		.01 Walls	m2	9,000.00		
		.02 Ceilings	m2	2,800.00		
		06 Quarry tile surfaces:				
		.01 Alkali resistant solvent based (modified alkyd) stoep paint:				
		.01 Window sills	m2	50.00		
		.07 Fibre cement Surfaces:				
		.01 Protective and decorative solvent based polyurethane alkyd semi gloss non-drip enamel paint				
		.01 Walls	m2	5.00		
		08 Exterior quality pure acrylic emulsion paint with Teflon:				
		.01 Ceilings and cornices	m2	20.00		
		.02 Walls	m2	20.00		
		09 Super universal high gloss enamel paint				
		.01 Fascias and barge boards	m2	500.00		
	205.01. 01	Softboard surfaces				
		.01 Interior quality super acrylic copolymer PVA paint				
		01 Ceilings and cornices	m2	120.00		
		02 Protective and decorative solvent based polyurethane alkyd semi- gloss non-drip enamel paint				
		.01 Ceilings and cornices	m2	75.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	205.01.02	Galvanised steel surfaces.				
		.01 Super universal high gloss enamel paint.				
		.01 Gutters	m2	50.00		
		.02 Rainwater down pipes	m2	50.00		
	205.01.03	Steel surfaces:				
		.01 Super universal high gloss enamel paint				
		.01 Residential type glazed windows	m2	100.00		
		.02 Window burglar proofing or mentis expanded metal grid to steel frame in burglar proofing	m2	20.00		
		.03 Doors	m2	7.00		
		.04 Door frames	m2	15.00		
		.05 Garage doors and frame	m2	2.00		
		.06 Security gates	m2	5.00		
		.07 Rails, pipes, etc not exceeding 50mm	m	5.00		
		.08 Pipes exceeding 50 mm dia not exceeding 100 mm dia	m	5.00		
		.09 Steel structures	m2	100.00		
	205.01.04	Wood surfaces:				
		.01 Protective and decorative solvent based polyurethane alkyd semi gloss non-drip enamel paint:				
		.01 Doors	m2	150.00		
		.02 Skirtings and quadrant beads not exceeding 150 mm girth	m	20.00		
	Carried forward					

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.02 Protective and decorative solvent based polyurethane alkyd semi- gloss non-drip enamel paint in dark colours:				
		01 Skirtings and quadrant beads not exceeding 150 mm girth	m	25.00		
		.03 Water resistant polyurethane clear matt varnish:				
		01 Doors	m2	400.00		
		02 Cupboard doors	m2	10.00		
		.03 Cupboards, counters, shelving, etc	m2	10.00		
		.04 Skirtings and quadrant beads not exceeding 150 mm girth	m	15.00		
		.04 Ultra violet light resistant exterior solvent based varnish:				
		01 Doors	m2	25.00		
		.05 Rust converter application				
		01 Strips not exceeding 300 mm girth to steel surfaces of carports	m	12.00		
	206.00 BB:	CARPENTRY AND JOINERY FOR ROOFS				
	206.01	Remove existing joinery items by length				
		.01 Roof timbers	m	20.00		
		.02 Fascias and barge boards	m	25.00		
	206.02	Supply and install new items measured by				
		01 225 x 10 mm Thick pressed fibre cement fascia, including painting, etc.	m	20.00		
		.02 225 x 10 mm Thick pressed fibre cement barge board, including painting, etc.	m	25.00		
		03 75 x 50 mm SAP purlins.	m	350.00		
		.04 38 x 114 mm Wrought sloping SAP rafters	m	175.00		
		Carried forward				

## SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING

SCHEDULE NO 3.1: INSTALLATION CR1: STRUCTURAL AND BUILDING						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>206.03</b>	<b>Painting of existing members in overhangs:</b>				
		.01 Members with creosote	m	2,000.00		
		.02 Members with paint	m	1,500.00		
	<b>207.00</b>	<b>Steel Carports as per drawing C.053363/05</b>				
		.01 Supply erect, and paint of 5.8m x 5.8m carport with IBR Chromadeck roof sheeting with 76mm x 76mm x 2m square tubing for posts fixed to base plates including 75mm x 50 x 20 purlins and 150 mm x 50 x 20 lip channels	No	3.00		
	<b>208.00</b>	<b>RAMPS FOR DISABLED</b>				
		.01 Construct ramps for the disabled at Oshoek to allow exit through the back side for emergency evacuation	Sum	1.00		
	<b>209.00</b>	<b>Ablution units inside holding cells</b>				
		.01 Provision of male ablution units inside holding cells at Oshoek Port of Entry	m2	5.00		
		.01 Provision of female ablution units inside holding cells at Oshoek Port Of Entry	m2	5.00		
	<b>2010.00</b>	<b>Ablution units inside holding cells</b>				
		.01 Provision of male ablution units inside holding cells at JOSEFDAL Port of Entry	m2	5.00		
		.01 Provision of female ablution units inside holding cells at Oshoek Port of Entry	m2	5.00		
	<b>TOTAL</b>	<b>SCHEDULE 3.1 : INSTALLATION CR1: STRUCTURAL AND BUILDING - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 CR2: PLUMBING, DRAINAGE AND WET SERVICES

						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	300.00	DETAIL WORK				
	300.01	Isolation, stripping, dismantling and removal of existing brassware, sanitary ware and piping installations:				
		.01 Water closets.				
		.01 Vitreous china WC pan (cistern type)	number	2.00		
		.02 Vitreous china WC cistern	number	5.00		
		.03 Tail pipe connections to WC, including shut of valve	number	5.00		
		.4.00 100mm dia pan connector	number	2.00		
		.05 Toilet seat and cover	number	25.00		
		.02 Washhand basins				
		.01 Vitreous china wall-mounted wash hand basin	number	1.00		
		.02 15 mm 121 pillar taps	number	3.00		
		.03 15 mm 121 pipe connections to pillar taps	number	3.00		
		.04 Rubber flexi p-trap or CP bottle trap	number	7.00		
		.03 Urinals				
		.01 Build in or wall hung urinal	number	1.00		
		.02 Junior flush valve	number	2.00		
		.03 Rubber flexi p-trap or CP bottle trap	number	10.00		
	Carried forward					
	Brought forward					

**SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES**

						<b>CIVIL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
		<b>4.00 Sinks</b>				
		1.00 20mm wall mounted taps	number	2.00		
		.02 15mm sink mixer	number	2.00		
		03 Rubber flexi P-trap or combination trap	number	1.00		
	<b>300.01</b>	<b>.05 Showers:</b>				
		.01 CP Shower heads	number	1.00		
		.02 Undertile stop cocks	number	1.00		
		.03 Shower gratings	number	1.00		
		<b>.06 Baths</b>				
		<b>.01 Bath mixer complete with shower head attachement.</b>				
		<b>.02 20mm wall mounted taps</b>				
		<b>.07 External</b>				
		.01 20mm dia RB hose bip tap	number	2.00		
	<b>300.02</b>	<b>Isolation, stripping, dismantling and removal</b>				
		.01 Isolate strip and remove domestic geyser (100 to 250 litres - electric)	number	2.00		
	<b>300.03</b>	<b>Supply and installation of sanitary ware and brassware:</b>				
		<b>.01 Water closets:</b>				
		01 Vitreous china WC washdown pan with enlarged pedestal	number	2.00		
		0.02 Vitreous china WC cistern - white 9 liters complete with lid and fitments	number	5.00		
		03 100 mm dia PVC pan connector	number	2.00		
		.04 15 mm dia CP ball-o-stop valve with CP flexi tail pipe to WC cistern	number	5.00		
		.05 Heavy duty white buckalite type toilet seat and cover with CP hinge and spindle	number	25.00		
	Carried forward					
	Brought forward					
		<b>0.02 Washhand basins:</b>				

## SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		.01 Vitreous china 520 x 415mm rounded wall mounted wash hand basin - white	number	1.00		
	300.03	.02 Flexi rubber P-trap or S-trap	number	2.00		
		.03 CP Bottle trap with 75mm deep re-seal and adjustable telescopic pipe	number	5.00		
		.04 15 mm dia CP pillar taps SANS 226 Type 1 (BS 5412), JASWIC Listed	number	3.00		
		.05 15 mm dia flexi pipe tailpipe connections to pillar taps including 15mm CP ball-o-stop valve	number	3.00		
		<b>.03 Sinks</b>				
		.01 CP wall-mounted sink mixer 15 mm "SANS 226 Type 1 (BS 5412), JASWIC Listed	number	2.00		
		.02 20mm CP wall-mounted hose bip tap - SANS 226 Type 1 (BS 5412), JASWIC Listed	number	2.00		
		.03 Flexi rubber combination trap for double bowl sink	number	2.00		
		<b>.04 Urinal</b>				
		.01 Vitreous chine wall hung urinal with top inlet including fittings.	number	1.00		
		.02 3/4" 'Flushmaster Junior' Urinal Flush valve,CP, exposed type with integral ballstop valve and wall plate	number	2.00		
		.03 CP Bottle trap with 75mm deep re-seal and adjustable telescopic pipe.	number	10.00		
		.04 CP urinal spreader and tail piece	number	2.00		
		<b>05 Showers.</b>				
		01 15mm CP Shower rose 50mm dia with ball joint connector	number	2.00		
		02 15 mm dia under-tile stop-cocks -SANS 226 Type 1 (BS 5412), JASWIC Listed	number	4.00		
	Carried forward					



**SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES**

						<b>CIVIL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	Brought forward					
	300.03 05	.03 CP shower grating	number	2.00		
		04 15mm CP shower arm with fascia plate and male iron connection	number	2.00		
		<b>.06 Baths</b>				
		01 Rubber flexi bath-trap	number	1.00		
		.02 20 mm dia CP wall mounted taps SANS 226 Type 1 (BS 5412), JASWIC Listed	number	2.00		
		.03 20 mm dia CP pillar taps SANS 226 Type 1 (BS 5412), JASWIC Listed	number	2.00		
		.04 3/4 Bath mixer. CP, wall type with concealed connections adjustable from 138mm to 218mm.	number	2.00		
		.05 3/4" CP Handshower attachment	number	2.00		
		<b>07 External</b>				
		.01 20mm Hose biptap, rough brass, with BSP hose union - SANS 26 Type 2	number	2.00		
	300.04	<b>Installation of above ground sanitary drainage piping systems</b>				
		<b>.01 uPVC soil and waste pipes:</b>				
		01 50 mm dia pipe fixed to walls and soffits	m	100.00		
		02 110mm dia soil pipe fixed to walls and soffits	m	100.00		
		<b>.02 uPVC soil and waste pipe fittings</b>				
		.01 50 mm dia access bend 87.5°	number	20.00		
		.02 50mm dia plain bend 135°	number	20.00		
		.03 50mm junction access heel 87.5°	number	20.00		
		.04 110mm dia plain bend 135°	number	20.00		
	300.04	.05 110mm dia access bend 87.5°	number	20.00		
		.06 110mm dia plain bend 90°	number	20.00		
		07 110mm vent horn bend access heel 95°	number	4.00		
	Carried forward					

## SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	300.05	Supply and installation of underground sanitary drainage pipes:				
		.01 Pipe trench excavations, bedding and backfilling:				
		01 Excavate in all materials for pipe trenches to depth of 1100 mm x 600 mmwide	m3	50.00		
		0.02 Supply and installation of river sand pipe bedding	m3	50.00		
		03 Backfilling and compacting to 93% modified AASHTO density with selected material	m3	50.00		
		.02 PVC-U Solid wall sewer pipes Class 3.4 - 300 KPA to SANS 791 specifications				
		01 110 mm dia	m	15.00		
		03 uPYC soil and waste pipe fittings				
		.01 110 mm dia plain bend 87.5°	number	2.00		
		.02 110 mm dia plain bend 135°	number	2.00		
		03 110 mm dia square junction	number	2.00		
		.04 110 mm dia 45° junction plain	number	2.00		
		.05 110 mm dia 45° Junction access	number	2.00		
		.06 160 mm dia plain bend 87,5°	number	2.00		
		.07 160 mm dia plain bend 135°	number	2.00		
		.08 160 mm dia square junction	number	2.00		
		0.09 160 mm dia 45° junction plain	number	2.00		
	300.05 03	.10 160 mm dia 45° junction access	number	2.00		
		160 mm dia 45° reducing function plain	number	2.00		
	Carried forward					

## SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.04 Cleaning eyes:				
		.01 100 mm dia inline cleaning eye, constructed complete with Square inspection eye cast iron cover and frame Type 14A (SANS 558) daylight opening size 265 x 265mm and concrete encasement				
	300.06	Supply and installation of domestic water piping installation:				
		.01 Copper piping Class 0 SANS 460 with capillary soldered type joints for cold-water piping installed in voids inclusive of bracketing				
		.01 22 mm dia including fittings	m	15.00		
		.02 15 mm dia including fittings	m	3.00		
		.02 Copper piping Class 0 SANS 460 with capillary soldered type joints for hot-water piping installed in voids including bracketing, lagging and cladding.				
		01 22 mm including fittings	m	15.00		
		.02 15 mm dia including fittings	m	3.00		
		.03 Copper piping Class 0 SANS 460 with capillary soldered type Joints for hot and cold-water piping chased in walls including wrapping of pipes with builders paper, chasing and reinstatement of chased Surfaces:				
		.01 22 mm dia including fittings	m	15.00		
		.02 15 mm dia including fittings	m	3.00		
		.04 Supply and installation of Class 6 pressure HDPE piping, including fittings, jointing and testing				
	300.06 04	01 20 mm dia HDPE pipe,including fittings	m	15.00		
		02 32 mm dia HDPE pipe, including fittings	m	50.00		
		Carried forward				

## SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>05 Replace additional geyser accessories</b>				
		.01 20 mm dia pressure-reducing valve, including two gate vales and non-return valve set at 400 kPa	number	10.00		
		<b>06 Water meter stations installed including strainer and one ball-o-stop shut-off valve with galvanised mild steel medium guage pipe connection 600mm above ground including 500 x 500 concrete 20Mpa base.</b>				
		.01 20 mm Dia water meter	number	20.00		
		.07 Replace 20 mm dia shut-off ball-o-stop	number	10.00		
	<b>300.07</b>	<b>Supply and installation of domestic geyser</b>				
		.01 SANS151 dual 150 liter. 3 kW 600kPA approved geyser	number	15.00		
		0.02 Kwikot Econoflo (or similar approved), 100 litre, 2 kW	number	10.00		
	<b>300.08</b>	<b>Servicing, cleaning and repair of sanitary were</b>				
		<b>.01 Water closets</b>				
		01 Oestaining of WC pan	number	10.00		
		02 Replace cistern type flushing mechanism with new	number	15.00		
		<b>.02 Wash hand basins</b>				
		01 Destaining of WHB	number	10.00		
		<b>.03 Urinals</b>				
		.01 Destaining of Urinal	number	5.00		
	<b>300.09</b>	<b>Servicing, overhauling and cleaning of brassware.</b>				
		<b>.01 Replace washers on brassware with washer kits</b>				
		0.01 15 mm dia CP pillar taps	number	20.00		
		.02 20 mm dia CP pillar taps	number	20.00		
		Carried forward				

## SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		03 15 mm dia CP wall-mounted taps	number	20.00		
		.04 20 mm dia CP wall-mounted taps	number	20.00		
		.05 20 mm dia brass hose bib taps	number	20.00		
		.06 20mm under wall stop taps	number	20.00		
		.07 15 mm CP sink mixers	number	20.00		
		08 25mm Junior flush master, including replacing flush master kits	number	30.00		
	300.10	<b>Servicing and repair of water, drainage and</b>				
		<b>1 Servicing and repair of drainage installations</b>				
		.01 Unblock and clean pipework including fittings, 50 mm dia pipe	number	10.00		
		02 Unblock and clean pipework including fittings, 100 mm dia pipe	number	25.00		
		.03 Unblock and clean gullies	number	15.00		
		.04 Replace damaged gully with pre-cast concrete gully	number	5.00		
		05 Replace broken or damaged Gully P-traps	number	5.00		
		06 Replace missing or broken round cast iron gully gratings 100mm - 300mm diameter	number	10.00		
		07 Replace missing or broken square cast iron gully gratings 250mm x 250mm wide	number	2.00		
	300.10	08 Replace missing or broken vent valve for air vent	number	5.00		
		09 Replace missing or broken cast iron inspection eye cover and frame only SANS 558 Type 14A in 500 x 500m concrete encasement	number	5.00		
		Carried forward				

## SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	300.11	Servicing, cleaning and repair of domestic geysers:				
		01 100-200 electric geyser	number	30.00		
	301.0	SEWERAGE NETWORKS				
	301.01	Sewerage networks				
		.01 Repair of existing pipelines				
		.02 Provision of materials for repair				
		.01 PVC-U Solid wall sewer pipes Class 34 - 300 KPA to SANS 791 specifications Including sockets				
		.02 110mm dia	m	10.00		
		.03 160mm dia	m	5.00		
		.02 PVC-U Solid wall sewer fittings to SANS 791 specifications				
		.05 110mm dia single sockets	No	2.00		
		06 160mm dia single sockets	No	2.00		
		07 110mm dia plain 45° bends	No	2.00		
		.08 110mm dia plain 90° bends	No	2.00		
		.09 110mm dia plain junctions	No	2.00		
		10 160 mm dia plain junctions	No	2.00		
		.11 110 mm dia fabricated long radius bends	No	2.00		
		.12 160 mm dia fabricated long radius bends	No	2.00		
	Carried forward					

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	301.02	<p>Manhole covers and grid inlets:</p> <p>Replacement of manhole covers, grid inlets, etc</p> <p>.01 SANS 558 Type 2A - Heavy Duty Class Circular Manhole Covers and (Square Base) Frame, Solid Top Type</p> <p>(i) Maximum dimension up to and including 300 mm</p> <p>(ii) Maximum dimension 301 mm to 600mm</p> <p>.02 SANS 558 Type 4A - Medium Duty Class Circular Manhole Covers and Frame, Single Steel Type</p> <p>(i) Maximum dimension up to and Including 300 mm</p> <p>.03 New pre-cast concrete manhole up to 1.2m deep,excl cover and frame</p> <p>.04 New pre-cast concrete manhole up to</p> <p>.05 SANS 558 Type 14A - Square inspection eye cast Iron cover and frame daylight opening size 265 x</p> <p>.04 Manholes and inspection chambers</p> <p>.01 New pre-cast concrete manhole up to 1.2m deep,excl cover and frame</p> <p>.02 New pre-cast concrete manhole up to 2.4m deep, excl cover and frame</p> <p>.03 New pre-cast concrete manhole up to 3.6m deep, excl cover and frame</p>	No  <			

## SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES

SCHEDULE NO 3.2: INSTALLATION CR2: PLUMBING, DRAINAGE AND WET SERVICES						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	<b>301.03</b>	<b>Cleaning of sewerage network</b>				
		.01 Mechanical cleaning of sewer pipes and structures with internal diameters of .01 Up to 200 mm	m	-		
	301.04	Tests and inspections	m	10.00		
		.01 Pressure testing of pipelines	m	100.00		
	<b>302.00</b>	<b>DRINKING FOUNTAINS</b>				
	302.01	Supply and install drinking fountain complete	number	-		
		.01 15mm BSP male Brass drinking fountain	number	-		
	<b>4.1.2</b>	<b>HOT WATER GEYSER INSTALLATIONS</b>				
	<b>53</b>	<b>REPLACEMENT HOT WATER GEYSER</b>				
		Supply, delivery, installation, commissioning and testing of Hot Water Geyser equipment, complete with interconnecting piping, non-return valves, gate valves, pressure releasing valves, wiring, overflow outlet pipe, mounting brackets, electrical connection and electrical isolators as specified below.				
		.01 Capacity: 100 Litres				
		Element Rating: 2kW				
		Operating Pressure: 600kPa				
		Mass (Empty): 32kG				
		Connections: 32mm				
		Power: 220-240V/1 Ph/50-60Hz	Number	15.00		
	<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. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 CR3:FENCING, CLEANING, SITE KEEPING AND PEST  
CONTROL****CIVIL REPAIR  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	500.01	<p><b>Supply and erection of new fencing material to replace old material:</b></p> <p><b>.01 Posts:</b></p> <p>01 70 x 70 x 6mm Angle Iron Posts, Predrilled holes for fixing panels and Hot dipped Galvanised in accordance with ISO 1461 (MM. 70 microns)</p> <p><b>.02 Covering plate</b></p> <p>.01 70 x 6mm Flatiron section, Predrilled countersunk holes for fixing mesh to posts. Hotdipped Galvanised in accordance with ISO 1461 (Min. 70 microns)</p> <p><b>03 Toprails</b></p> <p>.01 40mm x 40mm x 3mm Angle Iron, predrilled holes for fixing rails to posts and for fixing top section of mesh to rail. Toprail to be fitted with 32mm high x 2mm thick serrated comb Razor combs to be fillet welded 10mm at every 100mm centres Hotdipped Galvanised in accordance Minimum coating of toprail: 55 microns Minimum coating of serrated comb:</p> <p><b>.04 Bottomrail</b></p> <p>01 40mm x 40mm x 3mm Angle Iron, predrilled holes for fixing rails to posts and for fixing bottom section of mesh to rail. Hotdipped Galvanised In accordance with ISO 1461. Minimum coating of bottom rail:</p>	number	1.00		
			number	1.00		
			number	1.00		
			number	1.00		
	Carried forward					

**SCHEDULE NO 3.3: INSTALLATION CR3:FENCING, CLEANING, SITE KEEPING AND PEST CONTROL**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	500.01	<b>.05 Panels - 358 Double Line Wire Single</b>  .01 Heavy high security welded panel fence, with rectangular mesh Inner Apertures: 72.2mm x 8.7mm Wire diameter 4mm vertical wires are welded on both sides of the horizontal wires Width of panel: 3050mm Height of panel 1969m Tensile Strenght. 600 - 900N/mm2 Weld strenght 60 - 80% Weight: 9.34kg/m2 Coating Galfan Class A Coated in accordance with SANS 10244-2:2003	number	1.00		
	501.00	<b>1.8m PERIMETER FENCE - DIAMOND MESH. TUBULAR STEEL POSTS</b>				
	501.01	<b>Redress, treating and painting of</b>				
		<b>01 Gates:</b>				
		.01 Single gate of height 1,8 m or less	number	10.00		
		.02 Double gate of height 1,8 m or less	number	5.00		
		<b>.02 Tubular posts</b>				
		.01 1,8 m high fence	number	50.00		
		<b>03 Diamond mesh.</b>				
		.01 1,6 m diamond mesh	m	100.00		
		<b>Supply and erection of new fencing material to replace old material:</b>				
		<b>.01 Diamond mesh</b>				
		.01 1,8 m 2.5mm 50x50mm High diamond mesh	m	500.00		
		.02 1,8 m 3.15mm 25x25mm High diamond mesh	m	200.00		
		<b>02 Tubular posts:</b>				
		.01 75mm tubular post with concrete footing for 1.8 m high fence	number	10.00		
		.02 110mm tubular post with concrete footing for 1.8m high fence	number	10.00		
		Carried forward				

**SCHEDULE NO 3.3: INSTALLATION CR3:FENCING, CLEANING, SITE KEEPING AND PEST CONTROL**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.03 75 mm tubular posts with additional 450 mm overhang at 450 and with concrete footing for 1.8m high fence	number	20.00		
		.04 110 mm tubular posts with additional 450 mm overhang at 450 and with concrete footing for 1.8m high fence	number	20.00		
		.03 65mm dia Stay for 1.8 m post	number	10.00		
		.04 Y-standards for 1,8 m high fence	number	10.00		
		.05 Straining wire	m	50.00		
		.06 Barbed wire	m	1,200.00		
		.07 Barbed tape "Hatwrap", 700 mm dia.	m	50.00		
		<b>08 Gates in 1,8 m high fences</b>				
		.02 Double gate between 5.0 m and 10.0m wide	number	1.00		
	<b>502.00</b>	<b>RESIDENTIAL FENCE -1,2 m DIAMOND MESH,</b>				
	502.01	Clearing of growth along fence route	m	1,000.00		
	<b>502.02</b>	<b>Redress, treating and painting of:</b>				
		<b>.01 Gates</b>				
		.01 Single gate of height 1,2 m or less	number	15.00		
		.02 Double gate of height 1,2 m or less	number	7.00		
		<b>02 Tubular posts and standards</b>				
		.01 1,2 m high fence	number	50.00		
	<b>502.03</b>	<b>Supply and erection of new fencing material to replace old material:</b>				
		<b>.01 Diamond mesh:</b>				
		.01 1,2 m diamond mesh	m	100.00		
		.02 Tubular posts for 1,2 m high fence	number	1.00		
		.03 65mm dia Stay for 1.2 m post	number	1.00		
		.04 V-standards for 1,2 m high fence	number	1.00		
		.05 Straining wire	m	60.00		
		Carried forward				

**SCHEDULE NO 3.3: INSTALLATION CR3:FENCING, CLEANING, SITE KEEPING AND PEST CONTROL**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>.06 Gates</b>				
		<b>.01 In 1,2 m high fences</b>				
		1 single and double gates less than 1.5m wide	number	2.00		
		0.2 single and double gates between 1.5m and 5,0 m wide	number	1.00		
	<b>503.00</b>	<b>REPAIR WORK TO FENCES</b>				
		.01 Repair of wire and mesh fences less than 1,3m high	m	10.00		
		02 Repair of wire and mesh fences between 1,3m and 2,0m high	m	240.00		
	<b>504.00</b>	<b>SITE MAINTENANCE</b>				
	<b>504.01</b>	<b>.01 Removal and grubbing of large trees and</b>				
		.01 Girth exceeding 1 m up to and including 2m	No	-		
		02 Girth exceeding 2 m up to and including 3m	No	-		
	<b>505.00</b>	<b>SUPPLY OF EQUIPMENT FOR ABLUTIONS AS DESCRIBED IN ITEM CJ.09 OF THE PROJECT SPECIFICATIONS</b>				
		01 Stainless Steel Hand dryer unit with blower output of 450 watt @ 20,000 r	number	18.00		
		.02 Auto digital aerosol dispenser	number	50.00		
		.03 Stainless steel toilet paper dispensing units, capable of holding two toilet paper rolls per unit	number	40.00		
		.04 Stainless steel she bins	number	20.00		
		.05 Stainless steel soap dispenser	number	10.00		
		.06 Stainless steel urinal sanitiser	number	10.00		
	<b>TOTAL</b>	<b>SCHEDULE NO 3.3: INSTALLATION CR3:FENCING, CLEANING, SITE KEEPING AND PEST CONTROL - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 CR4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS****CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>600.00</b>	<b>BULK WATER AND BOREHOLE EQUIPMENT</b>				
	<b>600.1</b>	<b>Supply and place pipes, valves, fittings and specials</b>				
		01 25mm dia Polycop pipe for measuring equipment strapped to HDPE pipe in borehole	m	320.00		
		.02 50mm dia GMS distance piece 300mm long flanged both ends	number	-		
		03 50mm dia GMS Special T 300 x 640mm flanged ends	number	2.00		
		.04 50mm - 25mm dia GMS Special reducer 300mm long for air release valve	number	2.00		
		.05 50mm dia GMS Flanged 900 bend	number	2.00		
		.06 50mm dia GMS pipe 2000mm long flanged	number	2.00		
		.07 Purpose made housing for bore holes as per detail A on drawing	number	2.00		
		.08 Corrosion resistant Pressure gauges for scale 0 - 800 Kpa	number	2.00		
		09 50mm to 22mm dia Adaptor for pressure gauges	number	2.00		
		.10 22mm Ball-o-stop valves for pressure gauges	number	4.00		
		.11 22mm GMS BSP T-crece, with GMS BSP nipples at two ends for connection of	number	4.00		
		.12 25mm dia air release valves	number	2.00		
	Carried forward					

**SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		13 25mm dia shut off ball-o-stop valve	number	4.00		
		14 50mm dia flanged butterfly non-return valve	number	2.00		
		.15 50mm dia flanged CI diaphragm valve	number	2.00		
		.16 50mm dia flanged water meter	number	4.00		
		<b>17 Supply, install and commission rising main pipelines complete with straight coupling</b>				
		.01 50 mm dia. HDPE Class 12	m	5,800.00		
		.02 63 mm dia. HDPE Class 12	m	5,800.00		
		03 75 mm dia. HDPE Class 12	m	5,800.00		
		<b>.01 Supply, delivery, installation, testing and commissioning of new isolating valves (existing pipeline and valve size to be verified on site before ordering of material).</b>				
		.01 50 mm dia	number	3.00		
		02 80 mm	number	1.00		
		.03 110 mm dia.	number	2.00		
		<b>.02 Supply, delivery, installation, testing and commissioning new non-return valves</b>				
		.01 50 mm	number	3.00		
		02 80 mm dia	number	1.00		
		.03 110 mm dia.	number	2.00		
		<b>03 Supply, delivery, installation, testing and commissioning new water meters</b>				
		.01 50 mm dia	number	3.00		
		.02 80 mm dia.	number	1.00		
		03 110 mm dia	number	2.00		
		Carried forward				

**SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>601.02</b>	<b>Servicing of Valves</b>				
		<b>01 Isolating valves (existing pipeline and valve size to be verified on site before ordering of material).</b>				
		.01 50 mm dia	number	3.00		
		02 80 mm dia	number	3.00		
		.03 110 mm dia.	number	4.00		
		<b>.02 Non-return valves</b>				
		.01 80 mm dia.	number	3.00		
		.02 110 mm dia	number	2.00		
	<b>603.00</b>	<b>BOREHOLES</b>				
	603.01	01 Pump testing of boreholes	number	9.00		
		<b>.02 Extra over for Item .01above</b>				
		01 Ground water (Borehole water) sampling and testing	PC Sum	1.00		
		02 Pump testing supervision by a professional natural scientist	number	9.00		
		03 Compilation of borehole report by a professional natural scientist	number	9.00		
		04 Removal of existing pumping equipment	number	9.00		
		05 Reinstallation of existing pumping equipment	number	5.00		
	Carried forward					

**SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	603.02	<b>Decommissioning and removal of submersible pumping equipment</b>				
		.01 Borehole submersible pump	number	1.00		
	603.03	<b>Reconditioning of submersible pumping equipment</b>				
		.01 Borehole submersible pump	number	1.00		
	603.04	Installation, Testing and Commissioning of New Motor Control Center for Bore Hole with hour meter, stop start, run & trip indication lights, amp meter, volt meter, manual - off - auto selector switch, surge protection and main switch	number	4.00		
	603.05	01 Borehole siting of successful targets including the following activities;	No	1.00		
		<b>Desktop Study</b>				
		<b>Geophysical field work</b>				
		<b>Travelling</b>				
		<b>Geophysical Equipment</b>				
		02 Borehole Drilling including the following activities;	No	1.00		
		<b>Establishment and de-establishment</b>				
		<b>Drilling 165mm up to 120m per borehole</b>				
		<b>Reaming (200mm) minimum 20m</b>				
		<b>Casing (165mm) minimum 20m</b>				
		<b>Borehole Development (minimum 1 hour)</b>				
		<b>Laboratory samples</b>				
		03 Drilling Supervision per borehole	No	1.00		
		04 Supply install and commission Borehole submersible pump (Static Head 100m, Flow rate 1l/s, pipe dia 50mm HDPE	No	1.00		
		Carried forward				



**SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	603.06	01 Construct Borehole pump station complete with internal pipework (Drgs C.053363.08A, C.053363.08A1 & C.053363.09)	No	1.00		
		02 Repair chlorine dosing equipment	No	4.00		
		03 Supply and install new chlorine dosing equipment	No	1.00		
	<b>604.00</b>	<b>WATER DISTRIBUTION NETWORKS</b>				
	<b>604.01</b>	<b>Water distribution pipelines</b>				
		<b>01 Repair of existing pipelines</b>				
		01 Distribution pipes not exceeding deep	m	50.00		
		.02 House connections no exceeding 800mm deep	m	-		
		.02 Provision of materials for repair	m	20.00		
		<b>.03 uPVC class 12 pressure pipes to SANS 966 with integral "LYNG" mechanical rubber ring joints:</b>				
		.01 75 mm dia.	m	36.00		
		.02 110 mm dia.	m	24.00		
		03 160 mm dia.	m	18.00		
		<b>.02 Galvanised mild steel (GMS) medium duty duality pipes to SASS 62 with flanged couplings. Normalised pipes:</b>				
		01 50 mm dia.	m	50.00		
		.02 80 mm dia.	m	20.00		
		.03 100 mm dia.	m	12.00		
		.04 150 mm dia.	m	6.00		
		<b>.03 HDPE - 100 Class 10 pressure pipes, ISO</b>				
		.01 50 mm dia	m	40.00		
		.02 80 mm dia	m	20.00		
	Carried forward					

**SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	604.01	<b>04 Saddles with standard drilling and 25 mm SSP tapping for connections to supply lines:</b>  01 110 mm dia. .02 160 mm dia.  <b>.05 Standard bends of all degrees and all types completely fitted in pipes of all types with Inside diameters of</b>  01 between 39 mm and 55 mm .02 between 55 mm and 76 mm 03 between 76 mm and 99 mm .04 between 99 mm and 130 mm 05 between 130 mm and 180 mm  <b>06 Standard equal tees, reducing tees (largest connection pipe determine payment classification) and cross peaces of all types completely fitted in pipes of all types with inside diameters of:</b>  .01 between 39 mm and 55 mm 02 between 55 mm and 76 mm .03 between 76 mm and 99 mm .04 between 99 mm and 130 mm  <b>07 Standard reducers (largest connection pipe determine payment classification)of all types completely fitted in pipes of all types with inside diameters of:</b>  .01 between 55 mm and 76 mm .02 between 76 mm and 99 mm 03 between 99 mm and 130 mm	number	5.00		
			number	2.00		
			number	3.00		
			number	2.00		
			number	1.00		
			number	2.00		
			number	2.00		
			number	3.00		
			number	2.00		
			number	1.00		
			number	1.00		
			number	2.00		
			number	1.00		
			number	1.00		
	Carried forward					

**SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS**
**CIVIL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	604.01	.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:				
	.02	.01 between 76 mm and 99 mm	number	5.00		
		.02 between 99 mm and 130 mm	number	7.00		
		.03 between 130 mm and 180 mm	number	5.00		
		<b>.09 Supply and Installation of Stainless Steel Cascade clamps for any types of pipes</b>				
		.01 full clamps between 50 and 100mm dia pipes	number	-		
		.02 full clamps between 110 and 150mm dia pipes	number	-		
		<b>.10 Replacement of manhole covers, grid inlets, etc</b>				
		.01 SANS 558 Type 8A - Medium duty class size 600 x 450mm rectangular manhole cover and	number	2.00		
		.02 SANS 558 Type 8B - Medium duty class size 600 x 600mm square manhole cover and frame, double sealed type.	number	2.00		
		.03 SANS 558 Type 9A - Light duty class size 600 x 600mm square manhole cover and frame, single sealed type	number	2.00		
		.04 SANS 558 Type 9E - Light duty class size 900 x 600mm rectangular manhole cover and frame, single sealed type	number	2.00		
		<b>SCHEDULE NO 3.4: INSTALLATION CR4: BULK WATER SUPPLY SYSTEMS AND TOTAL EXTERNAL WATER NETWORKS - CARRIED TO SUMMARY:</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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: NSTALLATION CR5: WASTEWATER AND SEWER NETWORKS						CIVIL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	1204.00	<b>MATURATION PONDS AND REED BED</b>				
		.01 Remove vegetation from pond walls	m2	2,000.00		
		.02 Remove vegetation from reed bed walls and undesirable vegetation between reeds on the outskirts of the reed bed	m2	2,000.00		
		.03 Remove sand which was washed in by storm water from the reed bed	m3	200.00		
	1205.00	<b>PITCHING, STONEWORK AND PROTECTION AGAINST EROSION</b>				
	1205.01	<b>Stone Pitching</b>				
		.01 Grouted stone pitching	m2	20.00		
		.02 Concrete edge beams (15MPa concrete)	m3	20.00		
	1206.00	<b>LANDSCAPING AND PLANTING PLANTS AGAINST EROSION</b>				
	1206.01	<b>Trimming</b>				
		.01 Hand Trimming	m2	2.00		
	1206.02	<b>Preparing the areas for grassing</b>				
		.01 Topsoiling				
		(ii) Topsoil obtained from other sources by the contractor (including all haul)	m3	2.00		
	Carried forward					

## SCHEDULE NO 3.5: NSTALLATION CR5: WASTEWATER AND SEWER NETWORKS

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	1207.00	CONSTRUCTION OF A NEW SEPTIC TANKS AT WAVELEY				
		.01 Construction and commissioning of a	No	2.00		
		.02 Construction of soakaway trenches as per drawing C.053363/10	m3	21.00		
		.03 75 diameter small bore fluids pipeline to main soakaway	m	150.00		
	1208.00	WASTE WATER TREATMENT PLANT				
		01 Supply, deliver, instal, sewerplant mixer	Number	3.00		
		02 Re-calibrate the incoming raw sewage flow measurement system	Sum	3.00		
	TOTAL	SCHEDULE NO 3.5: INSTALLATION CR5: WASTEWATER AND SEWER NETWORKS - CARRIED TO SUMMARY				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 CR6: ROADS AND STORM WATER DRAINAGE**

						<b>CIVIL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>800.00</b>	<b>ROADS</b>				
	<b>700.01</b>	<b>Pavement layers and asphalt surface repair</b>				
		.01 Excavating and removing existing bituminous material	m3	6.00		
		<b>01 Material to be disposed of with the average depth of excavation up to 60mm</b>				
		02 Excavating and spoiling material from an existing pavement and/or the underlying fill:	m3	12.00		
		<b>.02 Non-cemented material</b>				
		.02 Asphalt surfacing (continuously graded medium, 60/70 penetration grade asphalt)	m2	10.00		
		<b>03 Surface patching of surfaced roads</b>				
		01 Trimming the edges and edge breaks of the existing surfacing	m	15.00		
		<b>04 Pothole repair using cold mix asphalt surfacing from the following sources</b>				
		01 Commercial sources (30mm thick)	m2	5.00		
		<b>.05 Repair of segmented paving</b>				
		01 Remove and discard damaged concrete block paving (80 mm interloc	m2	720.00		
		<b>06 Excavation for repair of segmented paving (max. 300 mm depth)</b>				
		01 Stockpile and re-use paving blocks	m3	460.00		
	<b>700.02</b>	<b>.01 Cast insitu concrete and formwork in edge beams, intermediate beams and kerbing:</b>				
		01 Class 30 concrete	m3	32.00		
	Carried forward					

## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		<b>.02 Concrete block paving:</b>				
		.01 Class, type and thickness similar to existing pavement for areas carrying mainly vehicular traffic (80 mm interlocking paving blocks (grey) on 20 mm bedding sand)	m2	321.00		
		02 Replacement of jointing sand	m2	750.00		
	<b>700.03</b>	<b>Surface repairs of concrete pavements</b>				
		<b>.01 Preparation and sealing or resealing of old joints and cracks in existing concrete pavements</b>				
		01 Expansion joints > 5 mm wide	m	640.00		
		.02 Construction Joints and weakened plane joints > 5 mm wide	m	50.00		
		.03 Cracks > 5 mm	m	15.00		
		<b>02 Patching of concrete</b>				
		.01 150mm thickness	m2	5.00		
		.03 Y12 high tensile steel reinforcing bars in concrete	t	1.00		
		<b>.04 Excavation and disposal of concrete pavement</b>				
		.01 Reinforced concrete (150 mm thickness)	m3	1.00		
	<b>700.04</b>	<b>Repair of kerbing:</b>				
		.01 Patching of kerbs	m	10.00		
		<b>02 Replacing of kerbs</b>				
		.01 Barrier kerbs similar to existing undamaged barrier kerbs	m	40.00		
		.02 Semi-mountable kerbs (SANS Fig. 7)	m	950.00		
		.03 Removal of kerbs	m	10.00		
	Carried forward					

## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>700.04</b>	<b>Erection and repair of road traffic signs and traffic control devices.</b>				
		<b>.01 Erection or reinstatement of road sign boards</b>				
		.01 Area not exceeding 2 m2	m2	5.00		
		.02 Area exceeding 2 m2	m2	10.00		
		.03 Area exceeding 2 m2	m2	10.00		
		.04 Area exceeding 2 m2	m2	10.00		
		<b>.02 Road sign supports (overhead road sign structures excluded)</b>				
		.01 Steel tubing of 76 mm diameter and 3 mm wall thickness	m	27.00		
		.03 Excavation and backfilling for road sign supports	m3	4.00		
		.04 Extra over item 700.04.03 for cement treated soil backfill	m3	4.00		
		.05 Hazard plates (600 x 150 mm)	number	30.00		
		.08 Repair of road sign faces	m2	10.00		
	<b>700.05</b>	<b>Road Road marking paint: (broken or unbroken)</b>				
		.01 100 mm up to 200mm wide white lines	m	1,977.00		
		.02 100 mm up to 200mm wide yellow lines	m	600.00		
		.03 White lettering and symbols	m2	8.00		
		.04 Yellow lettering and symbols	m2	80.00		
	Carried forward					



## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	701.00	STORMWATER DRAINAGE				
	701.01	Cleaning of prefabricated culverts				
		Cleaning of prefabricated culvert and inlet and outlet structures (average depth of material removed is more than 100 mm)				
		01 Prefabricated concrete pipes and portal culverts with maximum cross sectional dimension of:				
		01 Up to and including 500 mm	m3	1.00		
	701.02	Concrete construction and repair				
		.01 Excavation:				
		.01 Soft material	m3	2.00		
		.02 Cast in situ concrete and formwork In stormwater structures				
		.01 Class 20 concrete	m3	3.00		
		.02 Backfill below channels	m3	2.00		
		.03 Steel reinforcement				
		01 Welded steel mesh ref 245	m2	-		
		.04 Replacement of manhole covers, grid inlets, etc				
		01 SANS 558 Type 4 - covers, grids, etc				
		(i) Maximum dimension up to and including	number	4.00		
		(ii) Maximum dimension 300 mm to 600 mm	number	4.00		
		02 SANS 558 Type 4 - frames only for covers, grid, etc				
		(i) Maximum dimension up to and including 300 mm	number	4.00		
	701.02	.05 (ii) Maximum dimension 301 mm to 600 mm	number	-		
		Carried forward				

## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>.03 SANS 558 Type 2A - covers, grid, etc</b>				
		(i) Maximum dimension up to and including 300mm	number	-		
		(ii) Maximum dimension 301 mm to 600 mm	number	-		
		(iii) Maximum dimension 601 mm to 900 mm	number	-		
		<b>.04 SANS 556 Type 2A - frames only for covers, grid, etc:</b>				
		(i) Maximum dimension up to and including 300mm	number	-		
		(ii) Maximum dimension 301 mm to 600 mm	number	-		
		(iii) Maximum dimension 601 mm to 900 mm	number	-		
	<b>702.00</b>	<b>ANCILLARY ITEMS</b>				
	702.01	.01 Flat-topped solid rubber speed bumps installed complete	number	1.00		
		.02 Flat-topped solid stainless steel speed bumps installed complete	number	4.00		
	<b>703.00</b>	<b>PAVED ROAD CONSTRUCTION AND MAINTENANCE</b>				
	<b>703.01</b>	<b>.01 EARTHWORKS (ROADS, SUBGRADE)</b>				
		.01 Preparation and stripping of Site/removal of topsoil to 150mm depth, stockpiling , and maintaining	m2	1,700.00		
		.02 Preparation and stripping of Site/removal, haulage, and spreading of topsoil maximum depth of 150mm	m3	30.11		
		.03 Removal of unsuitable material to a depth of 300mm along the road	m3	301.13		
		<b>02 Treatment of road-bed</b>				
		Carried forward				

## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>Road bed preparation and compaction of material to</b>				
		.01 Minimum to 93% of mod AASHTO maximum density	m3	301.13		
		<b>.03 CUT TO FILL</b>				
		.01 minimum to 93% of mod AASHTO maximum density	m3	30.11		
		<b>.04 BORROW TO FILL</b>				
		.01 Minimum to 93% of mod AASHTO maximum density	m3	2.00		
		.02 Selected layer compacted to 95% mod AASHTO	m3	15.06		
		<b>.05 CUT TO SPOIL OR STOCKPILE</b>				
		.01 Soft excavation	m3	301.13		
		.02 Intermediate excavation	m3	10.00		
		.03 Hard excavation	m3	0.50		
		.04 Boulder excavation class A	m3	10.00		
		<b>06 b) Extra-over for</b>				
		.01 Intermediate excavation	m3	2.00		
		.02 hard rock excavation	m3	1.00		
		.03 boulder excavation, Class A	m3	0.50		
		.04 boulder excavation, Class B	m3	0.50		
		Carried forward				

**SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE**

**CIVIL REPAIR  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	703.02	<p>SUBBASE</p> <p>.01 Construct the subbase course/shoulders with material from commercial sources or designated borrow areas identified by the contractor (rates inclusive of haulage)</p> <p>Gravel subbase (04 material) compacted to:</p> <p>01 96% of modified AASHTO density (In layer thicknesses not exceeding 200 mm and less.)</p> <p>.02 Process subbase material by the following processes, as relevant, and use in the subbase</p> <p>01 a) Screening</p> <p>02 b) Heavy grid rolling</p> <p>.03 c) Mechanical modification</p> <p>.04 d) Stabilization</p> <p>.03 Stabilizing agent</p> <p>01 a) Road lime</p> <p>.02 b) Portland cement (3,5%) to SANS 471</p> <p>.03 d) Milled blastfurnace slag</p> <p>.04 e) Granulated unslaked lime</p> <p>05 c) Portland blastfurnace cement</p> <p>Overhaul (haul exceeding 2 km) (provisional)</p>	<p>m3</p> <p>m3</p> <p>m3</p> <p>m3</p> <p>t</p> <p>t</p> <p>t</p> <p>t</p> <p>t</p> <p>m3 - k</p>	<p>240.00</p> <p>-</p> <p>-</p> <p>-</p> <p>301.00</p> <p>-</p> <p>16.00</p> <p>-</p> <p>-</p> <p>-</p> <p>22,000.00</p>		
	703.03	<p>CRUSHED-STONE BASE</p> <p>.01 Crushed stone base:</p> <p>01 Constructed from type G4 material obtained from commercial sources and compacted to 98% of the apparent relative density in layer thicknesses of 200 mm and less. Maximum size 19 mm</p> <p>(i) 150mm thickness</p>	<p>m3</p>	<p>-</p>		
		Carried forward				

## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>703.04</b>	<b>BITUMINOUS SURFACE TREATMENT</b>				
		<b>.01 Prime coat:</b>				
		.01 (b) Quick drying RTH 1/4P tar prime	litre	-		
		.02 (c) MC-30 cut-back bitumen	litre	2,008.00		
		.02 Extra over item 3.5 for applying the prime coat in areas accessible only to hand held equipment	litre	20.00		
	<b>703.05</b>	<b>KERBING AND CHANNELING</b>				
		<b>.01 Provision of Edge Restraints (Precast kerbs and channels to SANS 927:2007 Edition 3.1) Drawing No C.2015001/102</b>				
		.01 Figure 3 - Half battered kerb	m	10.00		
		.02 Figure 8(c) - Mountable Kerbing	m	100.00		
		.03 Figure 10 - Rectangular Edging	m	100.00		
		.04 Concrete Kerbing (Fig 1) and Channelling (Fig 13) Combination	m	100.00		
		.02 Stormwater drain Type 2 as per drawing C.053363/06	m	11.00		
		03 Open Stormwater drainage channel Type 1 where there is no traffic as per drawing C.053363/06	m	11.00		
		<b>Inlet, Outlet, transition and similar structures (measured by components)</b>				
		.01 Concrete class 30MPa - Stormwater channels	m3	40.00		
		.02 Finishing top surfaces of concrete smooth with a wood float	m2	-		
	Carried forward					

## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	703.06	<b>SEGMENTED PAVING</b>  <b>Concrete interlocking block paving complete including amongst others sand as specified</b>  <b>.01 Type S-A. 80mm thick, Black in colour</b>  01. Class 25 m2 - 02. Class 35 m2 -  <b>02. Type S-A, 60mm thick, Black in colour</b>  01. Class 25 m2 - 02. Class 35 m2 -  <b>.04 Type S-C. 60mm thick, Black in colour</b>  01. Class 25 m2 - 02. Class 35 m2 -  .05 Pre-cast concrete edge restraint and intermediate beams 30MPa m3 -  <b>Provision of approved herbicide and ant poison.</b>  01 (a) Provision of materials m2 2,008.00 02. (b) Contractor's charges and profit added to the prime cost sum % -  <b>.06 TESTING MATERIALS AND WORKMANSHIP</b>  01. Other special tests requested by the engineer Prov. 1.00 02. Contractor's charges and profit added to the No 1.00  <b>02. Providing testing equipment:</b> (a) Rolling straight-edge No 1.00				
		Carried forward				

## SCHEDULE NO 3.6: INSTALLATION CR6: ROADS AND STORM WATER DRAINAGE

CIVIL REPAIR  
WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	703.07	Gabions and pitching				
		01. Pitching				
		01. Concrete retaining block wall system	m2	5.00		
	703.08	ROAD MARKINGS				
		01. Road marking paint:				
		(a) White lines (broken or unbroken)				
		(1) 100 mm wide	km	0.23		
		(2) 200 mm wide	km	-		
		(3) 500 mm Wide	km	-		
		(b) Yellow lines (broken or unbroken)				
		(1) 100 mm wide	km	0.10		
		(2) 150 mm wide	km	-		
		(d) White lettering and symbols	m2	2.00		
		(e) Yellow lettering and symbols	m2	2.00		
		(f) Transverse lines, painted island and arrestor bed markings (any colour)	m2	1.00		
		02 Variations in rate of application:				
		(a) White paint	litre	-		
		(b) Yellow paint	litre	-		
		03 Setting out and premarking the lines (Excluding traffic-island markings, lettering and symbols)	km	0.23		
	Carried forward					

**CIVIL REPAIR  
WORK**



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 SCHEDULE OF QUANTITIES IN BLACK INK**

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

**ELECTRICAL REPAIR WORK**

SCHEDULE NO 4.1: INSTALATION E1: BUILDING ELECTRICAL REPAIR WORK

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SCHEDULE NO 4.2: INSTALATION E2: STANDBY POWER RELATED CORRECTIVE WORK

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SCHEDULE NO 4.3: INSTALATION E3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK

R

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

R

SIGNED ON BEHALF OF TENDERER:

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK						ELECTRICAL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	400	INSTALLATION 3.1: BUILDING ELECTRICAL REPAIR WORK				
	400.0	DISTRIBUTION BOARDS				
	400.01	Service distribution board				
		.01 Flush DB (+/- 500x 600mm)	number	5.00		
		.02 Flush mounted DB (+/- 1000 x 800mm)	number	2.00		
		.03 Surface mounted DB(+/- 400 x 550mm)	number	5.00		
		.04 Surface mounted DB(+/- 400 x 300mm)	number	2.00		
		.05 Flush mounted DB(+/- 360 x 380mm)	number	2.00		
		.06 Flush mounted DB (+/- 600 x 650mm)	number	6.00		
		.07 Flush mounted DB (+/- 300 x 300mm)	number	1.00		
		.08 Flush mounted DB (+/- 300 x 500mm)	number	2.00		
		.09 Flush mounted DB (+/- 600 x 600mm)	number	8.00		
		.10 Domestic single phase(+/- 300 x 450mm)	number	6.00		
		.11 Surface mounted DB(+/- 330 x 500mm)	number	1.00		
		.12 Flush mounted DB (+/- 330 x 500mm)	number	2.00		
		.13 Flush mounted DB (+/- 400 x 400mm)	number	4.00		
		.14 Flush mounted DB (+/- 400 x 500mm)	number	6.00		
		.15 Floorstanding D.B Nerston	number	1.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.16 Floorstanding D.B. WAVELY	number	1.00		
		.17 Floorstanding D.B. JOSEFDAL	number	1.00		
		.18 Surface Mounted OPS D.B WAVELY	number	1.00		
		.19 Surface Mounted OPS D.B JOSEFDAL	number	1.00		
		.20 Surface Mounted OPS D.B Nerston	number	1.00		
	<b>400.02</b>	<b>Replace distribution board:</b>				
		.01 Surface mounted DB 12 Way with doors	number	9.00		
		.02 Surface mounted DB 24 Way with doors	number	9.00		
	<b>400.03</b>	<b>Supply and installation of circuit breakers (SABS approved)</b>				
		.01 10-40A, 6kA single pole	number	40.00		
		.02 40-50A, 6kA single pole	number	10.00		
		.03 10-40A, 6kA double pole	number	10.00		
		.04 10-40A, 6kA tripple pole	number	10.00		
		.05 40-80A, 6kA tripple pole	number	20.00		
		.06 80-100A, 6kA tripple pole	number	1.00		
		.07 80-100A 15kA tripple pole	number	25.00		
		.08 100-150A 15kA tripple pole	number	15.00		
	<b>400.04</b>	<b>Supply and installation of isolators (SABS approved)</b>				
		.01 20-40A, 6kA double pole	number	10.00		
		.02 50A,6kA double pole	number	10.00		
		.03 50A,6kA tripple pole	number	10.00		
		Carried forward				

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>400.05</b>	<b>Supply and install contactors</b>				
		.01 30A, 3 pole	number	10.00		
	<b>400.06</b>	<b>Supply and install switching timers</b>				
		01 QAT-R-Clip in timer	number	15.00		
	<b>400.07</b>	<b>Supply and install earth leakage units (SABS approved)</b>				
		01 60A, 6kA double pole	number	10.00		
	<b>400.08</b>	<b>Supply and install surge arrestors</b>				
		01 1 Pole and Neutral 275V 5kA with Indication with indication	number	40.00		
	400.08	.02 3 Pole and Neutral 275V 5kA with Indication	number	1.00		
	<b>401.00</b>	<b>LOW VOLTAGE CABLE INSTALLATIONS</b>				
	<b>401.01</b>	<b>Replace cabling</b>				
		.01 16mm x 3-core PVC/SWA/PVC Cu	m	30.00		
		.02 10mm x 3-core PVC/SWA/PVC Cu	m	50.00		
		.03 6 mm" x 3-core PVC/SWA/PVC Cu	m	20.00		
	<b>401.02</b>	<b>Termination of low voltage cable</b>				
		.01 16 mm x 3-core PVC/SWA/PVC Cu	number	10.00		
		.02 10mm2 x 3-core PVC/SWA/PVC Cu	number	10.00		
		.03 6 mm" x 3-core PVC/SWA/PVC Cu	number	10.00		
	<b>401.03</b>	<b>Jointing of cables</b>				
		.01 16 mm-x 4-core PVC/SWA/PVC Cu	number	15.00		
		.02 10 mm" x 3-core PVC/SWA/PVC Cu	number	15.00		
		.03 6 mm" x s-core PVC/SWA/PVC Cu	number	15.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>401.4</b>	<b>Supply and install earth continuity conductor:</b>				
		.01 70 mm' BCEW	m	10.00		
		.02 16 mm" BCEW	m	80.00		
		.03 10 mm! BCEW	m	50.00		
		.04 50 mm" aluminium	m	20.00		
	<b>401.05</b>	<b>Terminate earth continuity conductor:</b>				
		.01 70 mm <sup>2</sup> BCEW	number	10.00		
		.02 16 mm" BCEW	number	10.00		
		.03 10 mm- BCEW	number	10.00		
		.04 50 mm- aluminium	number	10.00		
	<b>402.00</b>	<b>WIRING</b>				
	<b>402.01</b>	<b>Replace wiring:</b>				
		.01 2,5 mm' PVC insulated	metre	350.00		
		.02 4 mm' PVC insulated	metre	200.00		
		.03 6 mm' PVC insulated	metre	100.00		
		.04 10 mm' PVC insulated	metre	50.00		
		.05 2,5 mm <sup>2</sup> BCEW	metre	200.00		
		.06 4 mm <sup>2</sup> BCEW	metre	100.00		
		.07 6mm <sup>2</sup> BCEW	metre	50.00		
	<b>403.00</b>	<b>LIGHTING INSTALLATION</b>				
	<b>403.01</b>	<b>Re-lamp luminaire</b>				
		.01 58W Fluorescent	number	250.00		
		.02 36W Fluorescent	number	250.00		
		.03 250W MV Lamp	number	120.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		.04 250W HPS Lamp	number	120.00		
		.05 70W HPS Lamp	number	90.00		
		.06 PL9W	number	130.00		
		.07 Energy saver 16W/E27	number	130.00		
		.08 2D16W	number	90.00		
		.09 100W GLS Lamp	number	120.00		
	<b>403.02</b>	<b>Service luminaire</b>				
		.01 Type A	number	100.00		
		.02 Type B	number	100.00		
		.03 Type C	number	100.00		
		.04 Type D	number	100.00		
		.05 Type E	number	100.00		
		.06 Type F	number	100.00		
		.07 Type G	number	100.00		
		.08 Type H	number	2.00		
		.09 Type I	number	3.00		
		.10 Type J	number	2.00		
		.11 Type K	number	14.00		
		.12 Type L	number	4.00		
		.13 Type M	number	1.00		
		.14 Type N	number	6.00		
		.15 Type O	number	18.00		
		.16 Type P	number	1.00		
		.17 Type R	number	8.00		
		.18 Type T	number	10.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		19 Type U	number	30.00		
		.20 TypeW	number	2.00		
		21 Type X	number	2.00		
		22 Type Z	number	7.00		
		.23 Type AC	number	6.00		
		.24 Type AD	number	1.00		
	<b>403.03</b>	<b>Replace luminaire</b>				
		.01 Type A	number	70.00		
		.02 Type B	number	20.00		
		03 Type C	number	10.00		
		.04 Type D	number	20.00		
		.05 Type H	number	10.00		
		06 Type F	number	10.00		
		.07 Type G	number	10.00		
		.08 Type K	number	10.00		
		09 Type R	number	1.00		
		.10 Type T	number	5.00		
		.11 Type U	number	10.00		
		.12 TypeV	number	5.00		
		13 TypeW	number	4.00		
		.14 Type X	number	7.00		
		15 Type Z	number	5.00		
		.16 Type AC	number	4.00		
		17 Type AD	number	4.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>403.04</b>	<b>Replace luminaire diffuser or lens</b>				
		.01 Type F	number	30.00		
		.02 Type H	number	10.00		
		.03 Type K	number	20.00		
		.04 Type T	number	10.00		
		.05 Type U	number	15.00		
		.06 Type Z	number	20.00		
	<b>403.05</b>	<b>Supply and installation of internal luminaire components</b>				
		.01 Choke for 36W Fluorescent	number	130.00		
		.02 Choke for 58W Fluorescent	number	130.00		
		.03 Fluorescent starter	number	180.00		
	<b>403.06</b>	<b>Ceiling replacement:</b>				
		.01 Luminaire removal and reinstallation	number	10.00		
	<b>403.07</b>	<b>1 Service light switch</b>	number	10.00		
	<b>403.08</b>	<b>Replace light switch</b>				
		.01 16A, one lever, one way	number	50.00		
		.02 16A, two lever, one way	number	50.00		
		.03 16A, three lever, one way	number	20.00		
		.04 16A, one lever, two way	number	20.00		
		.05 16A water tight, robust	number	30.00		
	<b>403.09</b>	<b>Replace Photo-electric switch</b>				
		.01 16A unit with bracket and mounted in dummy bulkhead fitting	number	45.00		
	<b>403.10</b>	<b>Replace lampholder (Ceramic)</b>	number	45.00		
	Carried forward					



**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>404.00</b>	<b>POWER OUTLETS</b>				
	<b>404.01</b>	<b>Service socket outlet</b>				
		.01 16A, single SSO	number	30.00		
		.02 16A, double SSO	number	50.00		
		.03 16A, dedicated SSO	number	50.00		
	<b>404.02</b>	<b>Replace socket</b>				
		.01 16A, single SSO	number	50.00		
		.02 16A, double SSO	number	50.00		
		.03 16A, single SSO powerskirting mounted	number	50.00		
		.04 16A, dedicated SSO 'powerskirting mounted	number	50.00		
		.05 6A, unswitched socket outlet usa	number	4.00		
	<b>404.03</b>	<b>Service isolator</b>				
		.01 60 A, 2 pole	number	30.00		
		.02 30A, 2 pole	number	40.00		
	<b>404.04</b>	<b>Replace isolators</b>				
		.01 30A, 2 pole	number	50.00		
		.02 30A 2 pole with cord grip	number	30.00		
		.03 30A 2 pole in York box S15	number	45.00		
		.04 60A 2pole	number	45.00		
	<b>404.05</b>	<b>Replace plug tops:</b>				
		.01 3-pin 16A	number	5.00		
		.02 3-pin square 13A	number	10.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>405.00</b>	<b>FIXED APPLIANCE AND COMPONENTS</b>				
	<b>405.01</b>	<b>Replace geyser components</b>				
		.01 Replace domestic geyser element	number	130.00		
		.02 Replace geyser thermostat	number	130.00		
	<b>405.02</b>	<b>Replace domestic stove components:</b>				
		.01 150 - 160 dia solid plate	number	45.00		
		.02 170 - 190 dia solid plate	number	45.00		
	<b>405.02</b>	<b>.03 200 - 220 dia solid plate</b>	number	45.00		
		.04 Five I six heat switch	number	45.00		
		.05 Oven bottom element	number	25.00		
		.06 Oven top element	number	25.00		
	<b>405.03</b>	<b>Replace connection from isolator to fixed appliance, with flexible copex (sprague) conduit and conductors, e.g. stove or geyser</b>				
		.01 Stove: 2 x 6 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors.	number	10.00		
		.02 Geyser: 2 x 4 mm <sup>2</sup> PVC and 2,5 mm <sup>2</sup> BCEW conductors.	number	10.00		
	<b>406.00</b>	<b>WIRE WAYS CONDUITS AND ACCESSORIES</b>				
	<b>406.01</b>	<b>Replace conduit:</b>				
		.01 20 mm dia Galv. Steel	m	180.00		
		.02 25 mmdia Galv. Steel	m	180.00		
		.03 32 mmdia Galv. Steel	m	100.00		
	<b>406.02</b>	<b>Supply and install outlet (draw) boxes</b>				
		.01 100 x 50 Galv. Steel	number	3.00		
		.02 100 x 100 Galv. Steel	number	5.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		.03 50 x 100 mm white enamel extension box	number	10.00		
		.04 100 x 100 mm white enamel extension box	number	10.00		
		.05 Circular 20mm	number	20.00		
	<b>406.03</b>	<b>Supply and install draw box cover plates(white enamel) to 'fit:</b>				
		.01 To fit 100 x 50 box	number	3.00		
		.02 To fit 100 x 100 box	number	5.00		
		3.00 Circular galvanised box	number	20.00		
	<b>406.04</b>	<b>Replace power skirting</b>				
		.01 2-tier powder-coated galvanised steel	m	250.00		
	<b>406.05</b>	<b>Replace wiring channel:</b>				
		.01 OL 2000, 41.3 x 41.3 mm	m	20.00		
		.02 OL 9000, 127 x 76 mm	m	6.00		
		.03 White pvc 100 x 76 mm	m	12.00		
		.04 White pvc 40 x 40 mm	m	20.00		
	<b>406.06</b>	<b>Supply and install Pratley boxes</b>				
		.01 83 mm 0 - double entry	number	3.00		
		.02 127 mm 0 - 3 way	number	2.00		
	406.07	Supply and install 4 plate stove with oven and warm drawer similar or equal to existing	number	1.00		
	<b>407.00</b>	<b>EARTHING AND BONDING</b>				
	407.01	Provide earthing and bonding in all ablution rooms, laundries and kitchens	Sum	1.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK**
**ELECTRICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>408.00</b>	<b>LIGHTNING PROTECTION</b>				
	<b>408.01</b>	<b>Supply and install earth electrodes:</b>				
		.01 16 mm dia 1.2 m long Cu rod and clamp	number	10.00		
	408.02	Provide cadweld joint on 70 mm' cable	number	5.00		
	408.03	Earth building roof structure	number	5.00		
	408.04	Testing of lightning earthing by a specialist contractor	Sum	1.00		
	408.05	Provide Certificate of Compliance	number	5.00		
		<b>BOOM GATES</b>				
	<b>409.00</b>	<b>High security traffic barrier consisting of extruded aluminium tubing powder coated in white with red reflective tape including boom break away system and lockable canbinet powder coated n white with red reflective tape capable of opening during power failures.</b>				
		.01 Complete traffic barriers (Boom Gate) Up to 7 m in width	number	1.00		
		.02 3 - 5 meter alluminium boom pole	number	2.00		
		03 5 - 6 meter alluminium boom pole	number	2.00		
		.04 Boom gate motor	number	2.00		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No 4.1: INSTALLATION ER1: BUILDING ELECTRICAL REPAIR WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No: 4.2 INSTALLATION ER2: STANDBY POWER RELATED CORRECTIVE WORK						ELECTRICAL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	800	SCHEDULE OF QUANTITIES No.: 4.2 INSTALLATION ER2: STANDBY POWER RELATED CORRECTIVE WORK				
	800.00	GENERATOR				
	800.01	Replace starter battery	number	10.00		
	800.02	Supply and install padlocks	number	10.00		
	800.03	Add 12/24V DC Emergency light	number	4.00		
	800.04	First Aid kit	number	4.00		
	800.05	Supply and install fuel modular filtration system with automatic water dump	number	1.00		
	800.06	Supply and install fuel water separator with automatic water dump	number	1.00		
		SUPPLY AND INSTALL NEW GENERATORS				
		300KVA	num	1.00		
		70KVA	num	1.00		
		60KVA	num	1.00		
		40KVA	num	1.00		
	801.00	UPS				
	801.01	Service UPS Units				
		01 Tower 1100 15kVA Unit	number	1.00		
		02 Tower 1100 10kVA Unit	number	4.00		
		.03 Tower 1100 15kVA Unit	number	1.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No: 4.2 INSTALLATION ER2: STANDBY POWER RELATED CORRECTIVE WORK**

## ELECTRICAL REPAIR WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	801.02	Replace UPS batteries:				
		.01 Tower 1100 10kVA Unit 12V 7a/h	number	96.00		
		.02 Tower 1100 15kVA Unit 12 V 65a/h	number	32.00		
	801.03	Replace UPS battery charger card	number	5.00		
	801.04	Replace UPS control card	number	5.00		
	801.05	Replace UPS Power Supply card	number	5.00		
	801.06	Replace UPS 32A fuses	number	10.00		
	TOTAL	SCHEDULE OF QUANTITES No: 4.2 INSTALLATION ER2: STANDBY POWER RELATED CORRECTIVE WORK- CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK**

						<b>ELECTRICAL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>800</b>	<b>SCHEDULE OF QUANTITIES No.: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM &amp; LOW VOLTAGE RELATED CORRECTIVE WORK</b>				
	<b>800.00</b>	<b>GENERAL REPAIR</b>				
	800.01	Excavate in all materials for trenches, backfill, compact and dispose of surplus material.	m3	80.00		
	800.02	Extra over item HE 09.06(a) above for excavating in hard materials	m3	50.00		
	800.03	Extra over item HE 09,06(a) above for excavating by hand in hard materials	m3	50.00		
	800.04	Supply and Install plastic warning tape	m	200.00		
	<b>800.05</b>	<b>Supply and install uPVC sleeves:</b>				
		.01 110 mm diameter	m	200.00		
	<b>800.06</b>	<b>Supply and delivery of PVS/SWA/PVC Cu low-voltage cable:</b>				
		01 95mm <sup>2</sup> , 4-core	m	80.00		
		.02 70mm <sup>2</sup> , 4-core	m	30.00		
		03 50mm <sup>2</sup> , 4-core	m	20.00		
		.04 25mm <sup>2</sup> , 4-core	m	50.00		
		.05 16mm <sup>2</sup> , 4-core	m	50.00		
		06 16mm <sup>2</sup> 4-core	m	100.00		
		07 10mm <sup>2</sup> , 4-core	m	100.00		
		.08 6mm <sup>2</sup> , 4-core	m	60.00		
	Carried forward					
	Brought forward					

**SCHEDULE OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK**
**ELECTRICAL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>800.07</b>	<b>Lay PVC/SWA/PVC Cu LV cable:</b>				
		.01 95mm <sup>2</sup> , 4-core	m	100.00		
		.02 70mm <sup>2</sup> , 4-core	m	100.00		
		.03 50mm <sup>2</sup> , 4-core	m	50.00		
		.04 25mm <sup>2</sup> , 4-core	m	50.00		
		.05 16mm <sup>2</sup> , 4-core	m	50.00		
		.06 16mm <sup>2</sup> , 4-core	m	100.00		
		.07 10mm <sup>2</sup> , 4-core	m	100.00		
		.08 6mm <sup>2</sup> , 4-core	m	60.00		
	<b>800.08</b>	<b>Termination of PVC/SWA/PVC Cu LV cable:</b>				
		.01 95mm <sup>2</sup> , 4-core	number	10.00		
		.02 70mm <sup>2</sup> , 4-core	number	10.00		
		.03 50mm <sup>2</sup> , 4-core	number	10.00		
		.04 25mm <sup>2</sup> , 4-core	number	6.00		
		.05 16mm <sup>2</sup> , 4-core	number	8.00		
		.06 16mm <sup>2</sup> , 4-core	number	8.00		
		.07 10mm <sup>2</sup> , 4-core	number	10.00		
		.08 6mm <sup>2</sup> , 4-core	number	10.00		
	<b>800.09</b>	<b>Jointing of low voltage cable:</b>				
		.01 25mm <sup>2</sup> , 4-core	number	10.00		
		.02 10mm <sup>2</sup> , 4-core	number	5.00		
	<b>800.10</b>	<b>Supply and delivery of bare copper earth conductor:</b>				
		.01 70 mm <sup>2</sup>	m	20.00		
		.02 50 mm <sup>2</sup>	m	50.00		
		.03 16 mm <sup>2</sup>	m	50.00		
	Carried forward					



**SCHEDULE OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK**
**ELECTRICAL REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		04 10 mm2	m	100.00		
		.05 6 mm2	m	100.00		
	<b>800.11</b>	<b>Installation of bare copper earth conductors:</b>				
		.01 50 mm2	m	20.00		
		02 35 mm2	m	50.00		
		03 25 mm2	m	50.00		
		.04 16 mm2	m	100.00		
		.05 10 mm2	m	100.00		
	<b>800.12</b>	<b>Supply and installation of circuit breakers:</b>				
		.01 10-20A, 5kA, single pole	number	5.00		
		.02 25-60A, 5kA, single pole	number	5.00		
		.03 25-60A, 5kA, triple pole	number	5.00		
		04 70-80A, 5kA, triple pole	number	5.00		
		.05 70-100A, 15kA, triple pole	number	5.00		
		.06 125-160A, 15kA, triple pole	number	5.00		
		07 225A, 15kA, triple pole	number	5.00		
		08 350A, 25kA, triple pole	number	5.00		
	<b>800.13</b>	<b>Supply and installation of contactors:</b>				
		01 30A, 3 pole	number	5.00		
	<b>800.14</b>	<b>Supply and installation of Internal luminaire components:</b>				
		01 Ballast for 400 W HPS	number	25.00		
		02 Igniter for 400 W HPS	number	40.00		
		03 Capacitor for 400 W HPS	number	50.00		
		04 GES porcelain lamp holder	number	60.00		
		Carried forward				

**SCHEDULE OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK**

SCHEDULE OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK						ELECTRICAL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		05 Ballast for 250 W HPS	number	60.00		
		06 Capacitor for 250 W HPS	number	100.00		
	<b>800.15</b>	<b>Replace Luminaire diffuser</b>				
		.01 250W HPS Floodlight	number	50.00		
	800.16	Supply and install photocell	number	20.00		
	800.17	Supply and Install QAT-R-clip-in timer	number	20.00		
	800.18	Supply and Install end connectors and insulating sleeves	number	30.00		
	<b>800.19</b>	<b>Supply and install 3 way parallel entry cable boxes</b>				
		.01 No 1	number	10.00		
		02 No 2	number	10.00		
		.03 No 3	number	10.00		
	<b>801.00</b>	<b>MEDIUM AND LOW VOLTAGE: SUBSTATION</b>				
		.01 Service substation building	number	6.00		
		.02 Provide labels, notices and schematics	number	6.00		
		<b>.03 Service 11kV switch gear</b>				
		.01 Merlin Gerlin RMG	number	3.00		
		<b>.04 Check protection relays (VIP 300)</b>				
		01 O/C&EF	number	3.00		
		.05 Service transformer	number	3.00		
		.06 Oil test	number	2.00		
		<b>.07 On-site insulating oil reconditioning:</b>				
		.01 Transformer (400kVA)	number	1.00		
		.08 Replace silica gel	number	1.00		
		09 Service LV distribution board	number	3.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK**

SCHEDULE OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM & LOW VOLTAGE RELATED CORRECTIVE WORK						ELECTRICAL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	<b>802.00</b>	<b>MV OVERHEAD RETICULATION SYSTEM</b>				
	802.01	Service overhead MV system	m	650.00		
	802.02	Replace insulator	number	10.00		
	802.03	Re-tensioning of overhead conductors	number	10.00		
	<b>803.00</b>	<b>TOOLS AND SPARES</b>				
		<b>.01 MV Switchgear system</b>				
		.01 MV fuses 20-50A 12kV 40kA	number	6.00		
		02 Cut out fuse element 10A type K	number	6.00		
		03 Cut out fuse element 22A type K	number	6.00		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No: 4.3 INSTALLATION ER3: EXTERNAL LIGHTING, MEDIUM &amp; LOW VOLTAGE RELATED CORRECTIVE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 SCHEDULE OF QUANTITIES IN BLACK INK**

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

	<b>MECHANICAL REPAIR WORK</b>
SCHEDULE OF QUANTITIES No 5.1: INSTALLATION: MR1 HEATING, VENTILATION AND AIR CON (HVAC)	R .....
SCHEDULE OF QUANTITIES No 5.2: INSTALLATION: MR2 HEATING, VENTILATION AND AIR CON (HVAC)	R .....
SCHEDULE OF QUANTITIES No 5.3: INSTALLATION: MR3 HEATING, VENTILATION AND AIR CON (HVAC)	R .....
SCHEDULE OF QUANTITIES No 5.4: INSTALLATION: 5.4 HEATING, VENTILATION AND AIR CON (HVAC)	R .....
<b>TOTAL - HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS</b>	<b>R</b> .....
SCHEDULE NO 5.5: OSHOEK CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
SCHEDULE NO 5.6: NERSTON CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
SCHEDULE NO 5.7: WAVERLY CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
SCHEDULE NO 5.8: JOSEFDAL CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
<b>TOTAL - CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>	<b>R</b> .....
SCHEDULE NO 5.9: OSHOEK - INCINERATOR INSTALLATION	R .....
<b>TOTAL - INCINERATOR INSTALLATION</b>	<b>R</b> .....
<b>TOTAL OF SCHEDULE OF QUANTITIES - MECHANICAL REPAIR WORK CARRIED TO CALCULATION OF TENDER SUM</b>	<b>R</b> .....

SIGNED ON BEHALF OF TENDERER:  
.....

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No 5.1: INSTALLATION: MR1 HEATING, VENTILATION AND AIR  
CON (HVAC)**

						<b>OSHOEK MECHANICAL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	5.1.	<b>INSTALLATION: 5.1 HEATING, VENTILATION AND AIR CON CORRECTIVE MAINTENANCE</b>  <b>HEATING, VENTILATION AND AIR- CONDITIONING (HVAC)</b>  <b>REPLACEMENT HVAC INSTALLATIONS AT OSHOEK PORT OF ENTRY</b>  <b>Supply, delivery, installation, commissioning and testing of HVAC equipment, complete with interconnecting piping, valves, wiring, top-up gas (R410a Only), drains, mounting brackets, electrical connection and remote controls as specified below.</b>				
	5.1.1	.01 Fixed Digital Remote Control with LCD Display	Number	22.00		
	5.1.2	<b>.02 Size: 4.5 kW Cooling Capacity with Reversible Cycle for Heating</b>  <b>Type: Floor Standing Unit</b>  Refrigerant: R410a  Power: 220-240V/1Ph/50-60Hz  Remote Control: Fixed Connection	Number	14.00		
	5.1.3	<b>.03 Size: 3.6kW Cooling Capacity with Reversible Cycle for Heating</b>  <b>Type: High Wall Split</b>  .03 Refrigerant: R410a  Power: 220-240V/1Ph/50-60Hz  Remote Control, Fixed Connection	Number	14.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 5.1: INSTALLATION: MR1 HEATING, VENTILATION AND AIR CON (HVAC)**
**OSHOEK  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	5.1.4	<b>Equipment Repair 2,2kW to 5,6kW Split Type Air-Conditioning Units</b>				
		Repair Outdoor Unit fins	Number	65		
		Check settings and operation of all pressure switches and reset if necessary	Number	120		
		Check settings and operation of thermostat	Number	60		
		Repair refrigerant pipe insulation	Number	45		
		De-rust, neutralize and touch up paint	Number	50		
		Replace filters	Number	45		
		Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	Number	120		
		Clean evaporator and condenser fan blades and check unbalance	Number	120		
		Supply and install condensate drain pipe (25mm diameter)	Number	65		
		Repair indoor air guide vents	Number	44		
		Replace compressor vibration mountings	Number	86		
		Re-gasing of refrigerant	Number	120		
		Check and repair settings and operation of all safety switches, i.e. LP&HP switches, oil pressure switches, etc.	Number	80		
		Check running current of fans and compressor, settings and operation of	Number	75		
		Replace Outdoor vibration mountings	Set	65		
		Clean Outdoor fan blades and check unbalance	Number	55		
		Carried forward				

**SCHEDULE OF QUANTITIES No 5.1: INSTALLATION: MR1 HEATING, VENTILATION AND AIR CON (HVAC)**
**OSHOEK  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	5.1.5	<b>ALLOWANCE FOR NEW HVAC INSTALLATIONS AT OSHOEK PORT OF ENTRY</b>  Supply, delivery, installation, commissioning and testing of HVAC equipment, complete with interconnecting piping, valves, wiring, mounting brackets, electrical connection, occupancy sensors for activation and deactivation and manual override on/off switch as specified below.  <b>Capacity: 286 m3/h</b>  <b>Type: Ceiling Mounted Extraction Fan</b>  <b>Sound: 45 dB</b>  .01 Size: 273mm  <b>Ducting Size: 150mm</b>  <b>Power: 220-240V/1Ph/50-60Hz</b>  <b>On/Off Control: Occupancy Sensor</b>  <b>Override On/Off Control: Manual On/Off Switch</b>  .02 On/Off Control: Occupancy Sensor  <b>Override On/Off Control: Manual On/Off Switch</b>  Supply, delivery, installation, commissioning and testing of kitchenettes as specified below.  .02 Kitchen Ventilation up-blast fan  <b>Aluminium Cased Exhaust Fan (Ø</b>  <b>Complete with Fittings and Hinges</b>  <b>Up blast Fan Variable Speed Motor</b>  <b>Power. 0.75 1.5 kW, 230/415V, 1/3Ph</b>  Extraction Flow rate: 10-20 m3/S	Number	11.00		
			Number	16.00		
			Number	2.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 5.1: INSTALLATION: MR1 HEATING, VENTILATION AND AIR CON (HVAC)**
**OSHOEK  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.03 Cold Room Plant  Blower Coil Produce 7.25kW @ Room  Matching Condenser Outside Unit  380-415V/3Ph/50-60Hz	Number	2.00		
		.04 Freezer Room Plant  Blower Coil Produce 12.1 kW @ Room  Matching Condenser Outside Unit  380-415V/3P h/50-60Hz	Number	3.00		
	TOTAL	SCHEDULE OF QUANTITIES No 5.1: INSTALLATION: MR1 HEATING, VENTILATION AND AIR CON (HVAC) - CARRIED TO SUMMARY				



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No 5.2: INSTALLATION: MR2 HEATING, VENTILATION AND AIR  
CON (HVAC)****NERSTON  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	5.2	<b>INSTALLATION: 5.1 HEATING, VENTILATION AND AIR CON REPAIRS</b>  <b>HEATING, VENTILATION AND AIR- CONDITIONING (HVAC)</b>  <b>REPLACEMENT HVAC INSTALLATIONS AT NERSTON PORT OF ENTRY</b>  <b>Supply, delivery, installation, commissioning and testing of HVAC equipment, complete with interconnecting piping, valves, wiring, top-up gas (R410a Only), drains, mounting brackets, electrical connection and remote controls as specified below.</b>				
	5.2.1	.01 Fixed Digital Remote Control with LCD Display	Number	8.00		
	5.2.2	<b>.02 Size: 4.5 kW Cooling Capacity with Reversible Cycle for Heating</b>  <b>Type: Floor Standing Unit</b>  Refrigerant: R410a  Power: 220-240V/1Ph/50-60Hz  Remote Control: Fixed Connection	Number	12.00		
	5.2.3	<b>.03 Size: 3.6kW Cooling Capacity with Reversible Cycle for Heating</b>  <b>Type: High Wall Split</b>  .03 Refrigerant: R410a  Power: 220-240V/1Ph/50-60Hz  Remote Control, Fixed Connection	Number	8.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 5.2: INSTALLATION: MR2 HEATING, VENTILATION AND AIR CON (HVAC)**
**NERSTON  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	5.3.4	<b>Equipment Repairs 2,2kW to 5,6kW Split Type Air-Conditioning Units</b>				
		Repair Outdoor Unit fins	Number	15		
		Check settings and operation of all pressure switches and reset if necessary	Number	22		
		Check settings and operation of thermostat	Number	12		
		Repair refrigerant pipe insulation	Number	62		
		De-rust, neutralize and touch up paint	Number	44		
		Replace filters	Number	18		
		Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	Number	62		
		Clean evaporator and condenser fan blades and check unbalance	Number	40		
		Supply and install condensate drain pipe (25mm diameter)	Number	40		
		Repair indoor air guide vents	Number	22		
		Replace compressor vibration mountings	Number	44		
		Re-gasing of refrigerant	Number	62		
		Check and repair settings and operation of all safety switches, i.e. LP&HP switches, oil pressure switches, etc.	Number	62		
		Check running current of fans and compressor, settings and operation of	Number	40		
		Replace Outdoor vibration mountings	Set	22		
		Clean Outdoor fan blades and check unbalance	Number	32		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No 5.2: INSTALLATION: MR2 HEATING, VENTILATION AND AIR CON (HVAC) - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No 5.3: INSTALLATION: MR3 HEATING, VENTILATION AND AIR  
CON (HVAC)****WAVELY  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	5.3	<p>INSTALLATION: 5.1 HEATING, VENTILATION AND AIR CON REPAIRS</p> <p>HEATING, VENTILATION AND AIR- CONDITIONING (HVAC)</p> <p>REPLACEMENT HVAC INSTALLATIONS AT NERSTON PORT OF ENTRY</p> <p>Supply, delivery, installation, commissioning and testing of HVAC equipment, complete with interconnecting piping, valves, wiring, top-up gas (R410a Only), drains, mounting brackets, electrical connection and remote controls as specified below.</p>				
	5.3.1	.01 Fixed Digital Remote Control with LCD Display	Number	6.00		
	5.3.2	<p>.02 Size: 4.5 kW Cooling Capacity with Reversible Cycle for Heating</p> <p>Type: Floor Standing Unit</p> <p>Refrigerant: R410a</p> <p>Power: 220-240V/1Ph/50-60Hz</p> <p>Remote Control: Fixed Connection</p>	Number	4.00		
	5.3.3	<p>.03 Size: 3.6kW Cooling Capacity with Reversible Cycle for Heating</p> <p>Type: High Wall Split</p> <p>.03 Refrigerant: R410a</p> <p>Power: 220-240V/1Ph/50-60Hz</p> <p>Remote Control, Fixed Connection</p>	Number	6.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 5.3: INSTALLATION: MR3 HEATING, VENTILATION AND AIR CON (HVAC)**
**WAVELY  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	5.3.4	<b>Equipment Repairs 2,2kW to 5,6kW Split Type Air-Conditioning Units</b>				
		Repair Outdoor Unit fins	Number	4		
		Check settings and operation of all pressure switches and reset if necessary	Number	15		
		Check settings and operation of thermostat	Number	10		
		Repair refrigerant pipe insulation	Meter	15		
		De-rust, neutralize and touch up paint	Number	15		
		Replace filters	Number	10		
		Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	Number	12		
		Clean evaporator and condenser fan blades and check unbalance	Number	12		
		Supply and install condensate drain pipe (25mm diameter)	Meter	8		
		Repair indoor air guide vents	Number	22		
		Replace compressor vibration mountings	Number	10		
		Re-gasing of refrigerant	Number	15		
		Check and repair settings and operation of all safety switches, i.e. LP&HP switches, oil pressure switches, etc.	Number	15		
		Check running current of fans and compressor, settings and operation of	Number	15		
		Replace Outdoor vibration mountings	Set	10		
		Clean Outdoor fan blades and check unbalance	Number	15		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No 5.3: INSTALLATION: MR3 HEATING, VENTILATION AND AIR CON (HVAC) CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No 5.4: INSTALLATION: MR4 HEATING, VENTILATION AND AIR  
CON (HVAC)**

						<b>JOSEFDAL MECHANICAL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	5.4	<b>INSTALLATION: 5.4 HEATING, VENTILATION AND AIR CON REPAIRS</b>  <b>HEATING, VENTILATION AND AIR- CONDITIONING (HVAC)</b>  <b>REPLACEMENT HVAC INSTALLATIONS AT NERSTON PORT OF ENTRY</b>  Supply, delivery, installation, commissioning and testing of HVAC equipment, complete with interconnecting piping, valves, wiring, top-up gas (R410a Only), drains, mounting brackets, electrical connection and remote controls as specified below.				
	5.4.1	.01 Fixed Digital Remote Control with LCD Display	Number	5.00		
	5.4.2	<b>.02 Size: 4.5 kW Cooling Capacity with Reversible Cycle for Heating</b>  <b>Type: Floor Standing Unit</b>  Refrigerant: R410a  <b>Power: 220-240V/1Ph/50-60Hz</b>  <b>Remote Control: Fixed Connection</b>	Number	6.00		
	5.4.3	<b>.03 Size: 3.6kW Cooling Capacity with Reversible Cycle for Heating</b>  <b>Type: High Wall Split</b>  .03 Refrigerant: R410a  <b>Power: 220-240V/1Ph/50-60Hz</b>  <b>Remote Control, Fixed Connection</b>	Number	4.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No 5.4: INSTALLATION: MR4 HEATING, VENTILATION AND AIR CON (HVAC)**
**JOSEFDAL  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	5.4.4	<b>Equipment Repairs 2,2kW to 5,6kW Split Type Air-Conditioning Units</b>				
		Repair Outdoor Unit fins	Number	5		
		Check settings and operation of all pressure switches and reset if necessary	Number	12		
		Check settings and operation of thermostat	Number	6		
		Repair refrigerant pipe insulation	Meter	13		
		De-rust, neutralize and touch up paint	Number	16		
		Replace filters	Number	12		
		Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	Number	16		
		Clean evaporator and condenser fan blades and check unbalance	Number	10		
		Supply and install condensate drain pipe (25mm diameter)	Meter	8		
		Repair indoor air guide vents	Number	30		
		Replace compressor vibration mountings	Number	8		
		Re-gasing of refrigerant	Number	16		
		Check and repair settings and operation of all safety switches, i.e. LP&HP switches, oil pressure switches, etc.	Number	16		
		Check running current of fans and compressor, settings and operation of	Number	16		
		Replace Outdoor vibration mountings	Set	8		
		Clean Outdoor fan blades and check unbalance	Number	14		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No 5.4: INSTALLATION: MR4 HEATING, VENTILATION AND AIR CON (HVAC) - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No: 5.5 INSTALLATION: MR5 CONVENTIONAL FIRE FIGHTING  
EQUIPMENT**

						<b>OSHOEK MECHANICAL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>5.5</b>	<b>INSTALLATION 5.5: CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>				
		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc: as per technical specification.				
	<b>5.5.1</b>	<b>LOCATION OF INSTALLATION: OSHOEK LPOE</b>				
	5.5.1.1	1. Conventional fire fighting equipment	Sum	1		
	5.5.1.2	Install new silk screened Fire Fighting Signage mounted on walls, Photoluminescent in Alluminium Frame.	Number	144		
	5.5.1.3	190mm x 190mm	Number	120		
	<b>5.5.2</b>	<b>DETAILS OF REPAIR WORK TO EQUIPMENT</b>				
	5.5.2.1	9kg DCP Fire Extinguisher	Number	95		
	5.5.2.2	4,5kg DCP Fire Extinguisher	Number	30		
	5.5.2.3	5kg CO2 Fire Extinguisher	Number	13		
	5.5.2.4	2,5kg CO2 Fire Extinguisher	Number	12		
	5.5.2.5	Lockable, metal cabinet for fire extinguisher	Number	8		
	5.5.2.6	Fire Booster System Repairs including all Accessories	Number	1		
	<b>5.5.3</b>	<b>Supply and installation of Fire Booster System Fire Hydrant and Fire Hose Reels equipment:</b>				
	5.5.3.1	Fire Hydrant valve	Number	6		
	5.5.3.2	Fire Hydrant nozzle	Number	8		
	Carried forward					

**SCHEDULE OF QUANTITIES No: 5.5 INSTALLATION: MR5 CONVENTIONAL FIRE FIGHTING EQUIPMENT**
**OSHOEK  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	5.5.3.3	Painting of Fire Hydrants	Number	12		
	5.5.3.4	Replace 30m long, 64mm diameter, percolating fire hose coils complete with quick coupling	Number	8		
	5.5.3.5	Pressure Monitor Guage to furtherst Hose Reels	Number	4		
	<b>5.5.4</b>	<b>DETAILS OF REPAIR WORK TO EQUIPMENT</b>				
		<b>Supply and installation of fire hose reel equipment:</b>				
	5.5.4.1	Fire hose-reel valve	Number	16		
	5.5.4.2	Fire hose-reel nozzle	Number	12		
	5.5.4.3	Repair Hose-reel cabinet, closing mechanism	Number	25		
	<b>5.5.5</b>	<b>OPERATING AND MAINTENANCE MANUALS</b>				
	5.5.5.1	Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	1		
	<b>5.5.6</b>	<b>FIRE PLAN</b>				
	5.5.6.1	Fire fighting training as per specification SD at Oshoek Port of Entry	Set	1		
	5.5.6.2	Compilation of fire plan by a registered approved service provider for each of the service buildings at Oshoek Port of Entry.	Set	1		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No: 5.5 INSTALLATION: MR5 CONVENTIONAL FIRE FIGHTING EQUIPMENT - CARRIED TO SUMMARY</b>				



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No: 5.6 INSTALLATION: MR6 CONVENTIONAL FIRE FIGHTING EQUIPMENT**

						<b>NERSTON MECHANICAL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>5.6</b>	<b>INSTALLATION 5.5: CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>				
		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc: as per technical specification.				
	<b>5.5.1</b>	<b>LOCATION OF INSTALLATION: OSHOEK LPOE</b>				
	5.5.1.1	1. Conventional fire fighting equipment	Sum	1		
	5.5.1.2	Install new silk screened Fire Fighting Signage mounted on walls, Photoluminescent in Aluminium Frame.	Number	44		
	5.5.1.3	190mm x 190mm	Number	32		
	<b>5.5.2</b>	<b>DETAILS OF REPAIR WORK TO EQUIPMENT</b>				
	5.5.2.1	9kg DCP Fire Extinguisher	Number	20		
	5.5.2.2	4,5kg DCP Fire Extinguisher	Number	25		
	5.5.2.3	5kg CO2 Fire Extinguisher	Number	6		
	5.5.2.4	2,5kg CO2 Fire Extinguisher	Number	4		
	5.5.2.5	Lockable, metal cabinet for fire extinguisher	Number	4		
	5.5.2.6	Fire Booster System Repairs including all Accessories	Number	1		
	<b>5.5.3</b>	<b>Supply and installation of Fire Booster System Fire Hydrant and Fire Hose Reels equipment:</b>				
	5.5.3.1	Fire Hydrant valve	Number	4		
	5.5.3.2	Fire Hydrant nozzle	Number	3		
	Carried forward					

**SCHEDULE OF QUANTITIES No: 5.6 INSTALLATION: MR6 CONVENTIONAL FIRE FIGHTING EQUIPMENT**
**NERSTON  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	5.5.3.3	Painting of Fire Hydrants	Number	4		
	5.5.3.4	Replace 30m long, 64mm diameter, percolating fire hose coils complete with quick coupling	Number	6		
	5.5.3.5	Pressure Monitor Gauge to furthest Hose Reels	Number	3		
	<b>5.5.4</b>	<b>DETAILS OF REPAIR WORK TO EQUIPMENT</b>				
		<b>Supply and installation of fire hose reel equipment:</b>				
	5.5.4.1	Fire hose-reel valve	Number	8		
	5.5.4.2	Fire hose-reel nozzle	Number	6		
	5.5.4.3	Repair Hose-reel cabinet, closing mechanism	Number	20		
	<b>5.5.5</b>	<b>OPERATING AND MAINTENANCE MANUALS</b>				
	5.5.5.1	Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	1		
	<b>5.5.6</b>	<b>FIRE PLAN</b>				
	5.5.6.1	Fire fighting training as per specification SD at Nerston Port of Entry	Set	1		
	5.5.6.2	Compilation of fire plan by a registered approved service provider for each of the service buildings at Nerston Port of Entry.	Set	1		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No: 5.6 INSTALLATION: MR6 CONVENTIONAL FIRE FIGHTING EQUIPMENT - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No: 5.7 INSTALLATION: MR7 CONVENTIONAL FIRE FIGHTING EQUIPMENT**

						<b>WAVELY MECHANICAL REPAIR WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>5.6</b>	<b>INSTALLATION 5.5: CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>				
		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc: as per technical specification.				
	<b>5.5.1</b>	<b>LOCATION OF INSTALLATION: OSHOEK LPOE</b>				
	5.5.1.1	1. Conventional fire fighting equipment	Sum	1		
	5.5.1.2	Install new silk screened Fire Fighting Signage mounted on walls, Photoluminescent in Aluminium Frame.	Number	22		
	5.5.1.3	190mm x 190mm	Number	10		
	<b>5.5.2</b>	<b>DETAILS OF REPAIR WORK TO EQUIPMENT</b>				
	5.5.2.1	9kg DCP Fire Extinguisher	Number	10		
	5.5.2.2	4,5kg DCP Fire Extinguisher	Number	6		
	5.5.2.4	2,5kg CO2 Fire Extinguisher	Number	8		
	<b>5.5.5</b>	<b>OPERATING AND MAINTENANCE MANUALS</b>				
	5.5.5.1	Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	1		
	<b>5.5.6</b>	<b>FIRE PLAN</b>				
	5.5.6.1	Fire fighting training as per specification SD at Waverly Port of Entry	Set	1		
	5.5.6.2	Compilation of fire plan by a registered approved service provider for each of the service buildings at Waverly Port of Entry.	Set	1		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No: 5.7 INSTALLATION: MR7 CONVENTIONAL FIRE FIGHTING EQUIPMENT - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No: 5.8 INSTALLATION: MR8 CONVENTIONAL FIRE FIGHTING EQUIPMENT**

						JOSEFDAL MECHANICAL REPAIR WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	5.6	<b>INSTALLATION 5.5: CONVENTIONAL FIRE FIGHTING EQUIPMENT</b>				
		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc: as per technical specification.				
	5.5.1	<b>LOCATION OF INSTALLATION: OSHOEK LPOE</b>				
	5.5.1.1	1. Conventional fire fighting equipment	Sum	1		
	5.5.1.2	Install new silk screened Fire Fighting Signage mounted on walls, Photoluminescent in Aluminium Frame.	Number	18		
	5.5.1.3	190mm x 190mm	Number	8		
	5.5.2	<b>DETAILS OF REPAIR WORK TO EQUIPMENT</b>				
	5.5.2.1	9kg DCP Fire Extinguisher	Number	9		
	5.5.2.2	4,5kg DCP Fire Extinguisher	Number	4		
	5.5.2.4	2,5kg CO2 Fire Extinguisher	Number	6		
	5.5.5	<b>OPERATING AND MAINTENANCE MANUALS</b>				
	5.5.5.1	Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	1		
	5.5.6	<b>FIRE PLAN</b>				
	5.5.6.1	Fire fighting training as per specification SD at JOSEFDAL Port of Entry	Set	1		
	5.5.6.2	Compilation of fire plan by a registered approved service provider for each of the service buildings at JOSEFDAL Port of Entry.	Set	1		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No: 5.8 INSTALLATION: MR8 CONVENTIONAL FIRE FIGHTING EQUIPMENT - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No: 5.9 INSTALLATION: MR9 INCINERATOR SYSTEM

**OSHOEK  
MECHANICAL  
REPAIR WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	5.9	<b>GENERAL DESCRIPTION OF CORRECTIVE WORK</b>				
		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc: as per technical specification.				
	5.9.1	<b>LOCATION OF INSTALLATION: OSHOEK LPOE</b>				
	5.9.1.1	Repair Primary Burner	Number	3		
	5.9.1.2	Repair Secondary Burner	Number	3		
	5.9.1.3	Allow for testing and measuring of operational efficiencies, combustion processes and issuing of certificate of compliance	Number	1		
	5.9.2	<b>Operating and maintenance manuals</b>				
	5.9.2.1	Compile & supply complete set of operating and maintenance manuals (3 copies required)	SET	3		
	5.9.2.2	Allow training for End-user client	HRS	6		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No: 5.9 INSTALLATION: MR9 INCINERATOR SYSTEM - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 MAINTENANCE WORK****CIVIL MAINTENANCE WORK**

SoQ No.: 6.1	Mandatory periodical servicing, maintenance and operation all four LPOE	R
SoQ No.: 6.2	Oshoek- Structural and Building related maintenance work	R
SoQ No.: 6.3	Oshoek- Plumbing, drainage and wet services related maintenance work	R
SoQ No.: 6.4	Oshoek- Fencing, gates, cleaning and site cleaning related maintenance work	R
SoQ No.: 6.5	Oshoek- Bulk water and external water reticulation related maintenance work	R
SoQ No.: 6.6	Oshoek- Roads and stormwater drainage related maintenance work	R
SoQ No.: 6.7	Oshoek - Wastewater treatment plant	R
SoQ No.: 6.8	Nerston- Structural and Building related maintenance work	R
SoQ No.: 6.9	Nerston- Plumbing, drainage and wet services related maintenance work	R
SoQ No.: 6.10	Nerston- Fencing, gates, cleaning and site cleaning related maintenance work	R
SoQ No.: 6.11	Nerston- Bulk water and external water reticulation related maintenance work	R
SoQ No.: 6.12	Nerston- Roads and stormwater drainage related maintenance work	R
SoQ No.: 6.13	Nerston - Septic tanks related maintenance work	R
SoQ No.: 6.14	WAVELY - Structural and Building related maintenance work	R
SoQ No.: 6.15	WAVELY - Plumbing, drainage & wet services related maintenance work	R
SoQ No.: 6.16	WAVELY - Fencing, cleaning & site keeping installation related maintenance work	R
SoQ No.: 6.17	WAVELY - Bulk water & external water reticulation related maintenance work	R
SoQ No.: 6.18	WAVELY - Roads & stormwater drainage related maintenance work	R
SoQ No.: 6.19	WAVELY - Septic tanks related maintenance work	R
SoQ No.: 6.20	JOSEFDAL - Structural and Building related maintenance work	R
SoQ No.: 6.21	JOSEFDAL - Plumbing, drainage & wet services related maintenance work	R
SoQ No.: 6.22	JOSEFDAL - Fencing, cleaning & site keeping installation related maintenance work	R
SoQ No.: 6.23	JOSEFDAL - Bulk water & external water reticulation related maintenance work	R
SoQ No.: 6.24	JOSEFDAL - Roads & stormwater drainage related maintenance work	R
SoQ No.: 6.26	JOSEFDAL - Septic tanks related maintenance work	R

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

SIGNED ON BEHALF OF TENDERER:

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF NO 6.1 INSTALLATION CM1: MANDATORY PERIODICAL SERVICING, MAINTENANCE AND OPERATION ALL FOUR LPOE**

						<b>CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>1400.00</b>	<b>MANDATORY PERIODICAL SERVICINGS</b>				
	<b>1401.00</b>	<b>MANDATORY PERIODICAL SERVICING- OSHOEK LPOE</b>				
		.01 Logging and recording of all water meter readings on a monthly basis	month	36.00		
		.02 Logging and recording of all electricity meter readings on a monthly basi	month	36.00		
		.03 Potable water quality tests to be performed by a SANAS accredited laboratory (approved authorized person) on a monthly basis	month	36.00		
		.04 Waste water effluent quality tests to be carried out by an approved	month	36.00		
		.05 Annual servicing of all fire hydrants	No	3.00		
		.06 Rodents termites and pest control (internal) (5936m2)	No	9.00		
		.07 Rodents termites and pest control (internal) (260000m2)	No	9.00		
		.08 Testing equipment for domestic/drinking water	set	1.00		
		.09 Testing equipment for wastewater treatment plant	set	1.00		
		.10 Cleaning and sterilization of all storage tanks (frequency)	No	6.00		
		.07 Operation of installations	No	9.00		
		.01 Chlorination of domestic water	month	36.00		
	Carried forward					

**SCHEDULE OF NO 6.1 INSTALLATION CM1: MANDATORY PERIODICAL SERVICING, MAINTENANCE AND OPERATION ALL FOUR LPOE**

## CIVIL MAINTENANCE WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		.02 Chemical for wastewater treatment works/disinfection of overflows	month	36.00		
		.03 Cleaning of all septic tanks	No	6.00		
		.04 Operation of waste water treatment plant	month	36.00		
		.05 Operation of borehole pumpstations	month	36.00		
	Carried forward					



**SCHEDULE OF NO 6.1 INSTALLATION CM1: MANDATORY PERIODICAL SERVICING,  
MAINTENANCE AND OPERATION ALL FOUR LPOE**

**CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	1401.00	<b>MANDATORY PERIODICAL SERVICING - NERSTON LPOE</b>				
		.01 Logging and recording of all water meter readings on a monthly basis	month	36.00		
		.02 Logging and recording of all electricity meter readings on a monthly basi	month	36.00		
		.03 Potable water quality tests to be performed by a SANAS accredited laboratory (approved authorized person) on a monthly basis	month	36.00		
		.04 Waste water effluent quality tests to be carried out by an approved	month	36.00		
		.05 Annual servicing of all fire hydrants	No	3.00		
		.06 Rodents termites and pest control (internal) (5300m2)	No	9.00		
		.07 Rodents termites and pest control (internal) (150000m2)	No	9.00		
		.08 Testing equipment for domestic/drinking water	set	1.00		
		.09 Testing equipment for wastewater treatment plant	set	-		
		.10 Cleaning and sterilization of all storage tanks (frequency)	No	6.00		
		.07 Operation of installations	No	9.00		
		.01 Chlorination of domestic water	month	36.00		
		.02 Chemical for wastewater treatment works/disinfection of overflows	month	36.00		
		.03 Cleaning of all septic tanks	No	6.00		
		.04 Operation of waste water treatment plant	month	-		
		.05 Operation of borehole pumpstations	month	36.00		
		Carried forward				

**SCHEDULE OF NO 6.1 INSTALLATION CM1: MANDATORY PERIODICAL SERVICING,  
MAINTENANCE AND OPERATION ALL FOUR LPOE**

**CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	1401.00	<b>MANDATORY PERIODICAL SERVICING WAVELEY LPOE</b>				
		.01 Logging and recording of all water meter readings on a monthly basis	month	36.00		
		.02 Logging and recording of all electricity meter readings on a monthly basis	month	36.00		
		.03 Potable water quality tests to be performed by a SANAS accredited laboratory (approved authorized person) on a monthly basis	month	36.00		
		.04 Waste water effluent quality tests to be carried out by an approved	month	36.00		
		.05 Annual servicing of all fire hydrants	No	3.00		
		.06 Rodents termites and pest control (internal) (1076m2)	No	9.00		
		.07 Rodents termites and pest control (internal) (69600m2)	No	9.00		
		.08 Testing equipment for domestic/drinking water	set	1.00		
		.09 Testing equipment for wastewater treatment plant	set	-		
		.10 Cleaning and sterilization of all storage tanks (frequency)	No	6.00		
		.07 Operation of installations	No	9.00		
		.01 Chlorination of domestic water	month	36.00		
		.02 Chemical for wastewater treatment works/disinfection of overflows	month	36.00		
		.03 Cleaning of all septic tanks	No	6.00		
		.04 Operation of waste water treatment plant	month	-		
		.05 Operation of borehole pumpstations	month	36.00		
		Carried forward				

**SCHEDULE OF NO 6.1 INSTALLATION CM1: MANDATORY PERIODICAL SERVICING,  
MAINTENANCE AND OPERATION ALL FOUR LPOE**

**CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	1401.00	<b>MANDATORY PERIODICAL SERVICING - JOSEFDAL LPOE</b>				
		.01 Logging and recording of all water meter readings on a monthly basis	month	36.00		
		.02 Logging and recording of all electricity meter readings on a monthly basis	month	36.00		
		.03 Potable water quality tests to be performed by a SANAS accredited laboratory (approved authorized person) on a monthly basis	month	36.00		
		.04 Waste water effluent quality tests to be carried out by an approved	month	36.00		
		.05 Annual servicing of all fire hydrants	No	3.00		
		.06 Rodents termites and pest control (internal) (942m2)	No	9.00		
		.07 Rodents termites and pest control (internal) (17100m2)	No	9.00		
		.08 Testing equipment for domestic/drinking water	set	1.00		
		.09 Testing equipment for wastewater treatment plant	set	-		
		.10 Cleaning and sterilization of all storage tanks (frequency)	No	6.00		
		<b>.07 Operation of installations</b>				
		.01 Chlorination of domestic water	month	36.00		
		.02 Chemical for wastewater treatment works/disinfection of overflows	month	36.00		
		.03 Cleaning of all septic tanks	No	6.00		
		.04 Operation of waste water treatment plant	month	-		
		.05 Operation of borehole pumpstations	month	36.00		
		Carried forward				

**SCHEDULE OF NO 6.1 INSTALLATION CM1: MANDATORY PERIODICAL SERVICING,  
MAINTENANCE AND OPERATION ALL FOUR LPOE**

**CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during malicious damage breakdown	days		-R 107.50	Rate Only
		<b>Emergency Breakdown</b>				
		Call-out for repair of Emergency Breakdown (12 hours) response - As per specification SA.	No	5.00		
		<b>SCHEDULE OF NO 6.1 INSTALLATION CM1: MANDATORY PERIODICAL SERVICING, MAINTENANCE AND OPERATION ALL FOUR LPOE CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF NO 6.2 INSTALLATION CM2: OSHEOK LPOE- STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK****OSHOEK CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	800.00 800.01	<b><u>SCHEDULE NO. 14: INSTALLATION STRUCTURAL AND BUILDING RELATED</u></b> <b>Maintenance of a complete installation:</b> The Contractor shall attend to the following <ul style="list-style-type: none"> <li>• Doors (hinges, locksets, strike plates,</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> 1 OSHOEK: Proper maintenance of Structural and Building related work of operational area and residential area. Maintenance is not limited to the above-mentioned	points	360.00		
	800.02	<b><u>Maintenance report</u></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. 1 OSHOEK: Comprehensive monthly facilities inspection report Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime:	points	360.00		
	Carried Forward					

**SCHEDULE OF NO 6.2 INSTALLATION CM2: OSHEOK LPOE- STRUCTURAL AND BUILDING -  
RELATED MAINTENANCE WORK**

						<b>OSHOEK CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	Brought forward					
	800.03	<b><u>Payment reduction:</u></b>  Payment reduction due to exceeding of maximum allowable down-time during damage repair Maintenance of tools and equipment on following page:  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 1 OSHOEK Programme of the Works	days		-R 500.00	Rate only
	800.06	<b><u>LATE SUBMISSION OF ACCEPTABLE</u></b>  <b>Payment reduction:</b> OSHOEK: Payment reduction due to late submission of an adequate/acceptable Programme of the Works	days	360.00	-R 500.00	Rate only
	800.07	<b>Maintenance Control Plan</b> The Contractor shall compile and submit a complete and accurate monthly Maintenance Control Plan (see Additional Specification SA), which shall be utilised to log and record all faults, system checks, breakdowns and site inspections. 1 OSHOEK: Complete and accurate Maintenance Control Plan	points	360.00		
	800.08	<b><u>Payment reduction for late submission of the Maintenance Plan: LATE SUBMISSION OF ACCEPTABLE MAINTENAN CONTROL PLAN</u></b> <b>Payment reduction: OSHOEK: Payment reduction due to late submission of an adequate/acceptable Maintenance Control Plan</b>	days		-R 500.00	Rate only
	Carried Forward					

**SCHEDULE OF NO 6.2 INSTALLATION CM2: OSHEOK LPOE- STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**
**OSHOEK CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>MAINTENANCE OF KITCHENETTES AT OSHOEK LAND PORT OF ENTRY</b>  <b>MAINTENANCE AND REPAIRS OF KITCHENETTES</b>  .01 Varnishing wooden cabinets (Number of times over 3 years : (3))  .02 Powder coating steel cabinets (Number of times over 3 years : (3))  .03 Tightening of loose screws, replacing hinges and loose snap fittings (Number of times over 3 years : (3))  .04 Sealing and filling gorges and open areas on wooden cabinets (Number of times over 3 years : (3))  .05 Smoothing rough and jagged edges on wooden cabinets (Number of times over 3 years : (3))  .06 Replacing cabinet doors, parts and tops (Number of times over 3 years : (3))  .07 Repairing and/or replacing built-in sinks (Number of times over 3 years : (3))  .08 Repairing and/or replacing water supply fixtures and fittings (Number of times over 3 years : (3))  .09 Repairing and/or replacing water drainage fittings (Number of times over 3 years : (3))		84.00   84.00  84.00  84.00  84.00  84.00  84.00  84.00		
	<b>TOTAL</b>	<b>SCHEDULE OF NO 6.2 INSTALLATION CM2: OSHEOK LPOE- STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF NO 6.3 INSTALLATION CM3: OSHOEK LPOE PLUMBING, DRAINAGE AND WET SERVICES-RESIDENTIAL AREA -RELATED MAINTENANCE WORK**

						<b>OSHOEK CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	1500.00	MAINTENANCE OF PLUMBING, DRAINAGE AND WET SERVICES				
	1501.00	Maintenance of completed installation:				
		.01 Plumbing, drainage and wet services installation	point	360.00		
		The maintenance scope is described in technical specifications: AA, PAA, CF, EG, KA				
	7.3.4	MAINTENANCE OF WET SERVICES AT OSHOEK PORT OF ENTRY				
	0.1	GENERAL SERVICING OF HOT WATER GEYSER UNITS				
		.01 Check thermostat temperature levels (Number of times over 3 years : (3))	Number	65.00		
		.02 Check pressure release valve (Number of times over 3 years : (3))	Number	65.00		
		.03 Check water pipe inlet and outlet connections for lime build up (Number of times over 3 years : (3))	Number	65.00		
		.04 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	65.00		
		.05 Check element for lime build up (Number of times over 3 years : (3))	Number	65.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	65.00		
		.07 Flush sediment at the bottom of the geyser tank (Number of times over 3 years : (3))	Number	65.00		
		.08 Check tightness of all electrical terminals (Number of times over 3 years : (3))	Number	65.00		
	Carried forward					



**SCHEDULE OF NO 6.3 INSTALLATION CM3: OSHOEK LPOE PLUMBING, DRAINAGE AND WET SERVICES-RESIDENTIAL AREA -RELATED MAINTENANCE WORK**

**OSHOEK CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	0.2	.09 Check all piping for leaks (Number of times over 3 years : (3))  .10 Check electrical earthing and protection fuses (Number of times over 3 years : (3))  .11 Check geyser mountings and braces (Number of times over 3 years : (3))  <b>GENERAL SERVICING OF DRAINAGE</b>  .01 Check and repair faulty rubber connections - P, S and U Trap drainage connections (Number of times over 3 years : (6))  .02 Check, repair and/or tighten pipe clamps and couples (Number of times over 3 years : (6))  .03 Check, repair and/or replace faulty or unrepeatable uPVC Soil and Waste Pipe Fittings (Number of times over 3 years : (6))  .04 Check, repair and/or faulty or damaged uPVC Soil and Waste Pipe Pipes (Number of times over 3 years : (6))  .05 Check drainage for blocking and perform unblocking and cleaning procedures (Number of times over 3 years : (6))	Number  Number  Number  Sum  Sum  Sum  Sum  Sum	65.00  65.00  65.00  3.00  3.00  3.00  3.00		
	0.3	<b>GENERAL SERVICING OF DOMESTIC WATER PLUMBING AND PIPING</b>  .01 Check and repair faulty pipework and plumbing with cracks and leaks (Number of times over 3 years : (6))  .02 Check, repair and clean pipework and plumbing with lime build-up and corrosion (Number of times over 3 years : (6))  .03 Check and repair faulty pipework and plumbing connections, seals and rubbers for leaks, grime build up and wears and tear (to outlet taps to various equipment) (Number of times over 3 years : (6))  .04 Check and repair faulty valves, (ball, non-return, gate valves etc..) (Number of times over 3 years : (6))	Sum  Sum  Sum  Sum	3.00  3.00  3.00  3.00		
		Carried forward				

**SCHEDULE OF NO 6.3 INSTALLATION CM3: OSHOEK LPOE PLUMBING, DRAINAGE AND WET SERVICES-RESIDENTIAL AREA -RELATED MAINTENANCE WORK**

**OSHOEK CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	0.4	<b>GENERAL SERVICING, REPAIR, DISTAINING AND DISINFECTING OF SANITARYWARE</b>				
		.01 Check and clean water closet (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check and repair cistern type flushing mechanism (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check and clean hand wash basins (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check and clean urinal (Number of times over 3 years : (6))	Sum	3.00		
		.05 Check and clean brassware (Number of times over 3 years : (6))	Sum	3.00		
		.06 Check and clean stainless steel laundry basins (Number of times over 3 years : (6))	Sum	3.00		
	1502.00	<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
	1503.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	-		
	<b>TOTAL</b>	<b>SCHEDULE OF NO 6.3 INSTALLATION CM3: OSHOEK LPOE PLUMBING, DRAINAGE AND WET SERVICES-RESIDENTIAL AREA -RELATED MAINTENANCE WORK - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.4 INSTALLATION CM4: OSHOEK LPOE FENCING, CLEANING AND SITE RELATED MAINTENANCE WORK**

SCHEDULE NO 6.4 INSTALLATION CM4: OSHOEK LPOE FENCING, CLEANING AND SITE RELATED MAINTENANCE WORK						OSHOEK CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	1800.00	MAINTENANCE OF FENCING AND GATES				
	1801.00	Maintenance of a completed installation:  .01 Fencing and Gates  The maintenance scope is described in technical specification: CC	points	360.00		
	1802.00	MAINTENANCE OF SITE KEEPING INSTALLATION				
	1803.00	Maintenance of a completed installation:  .01 Cleaning of site, removal of waste and cutting grass  The maintenance scope is described in technical specifications: CG, CJ	points	360.00		
	1804.00	MAINTENANCE OF CLEANING OF BUILDINGS				
	1805.00	Maintenance of a completed installation:  .01 Cleaning of Buildings  The maintenance scope is described in technical specifications: CJ	points	360.00		
	1806.00	Payment reduction:  .01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		TOTAL	SCHEDULE NO 6.4 INSTALLATION CM4: OSHOEK LPOE FENCING, CLEANING AND SITE RELATED MAINTENANCE WORK- CARRIED TO SUMMARY			

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.5 INSTALLATION CM5:OSHOEK LPOE BULK WATER AND EXTERNAL WATER RETICULATION -RELATED MAINTENANCE WORK**

						<b>OSHOEK CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	1900.00	<b>MAINTENANCE OF BULK WATER AND EXTERNAL WATER RETICULATION</b>				
	1901.00	<b>Maintenance of completed installation:</b>				
		.01 Bulk water and External water	point	360.00		
		<b>The maintenance scope is described in technical specifications: CE,CI,DA,DL,DN,EK,FN KA</b>				
	7.4.8	<b>MAINTENANCE OF BOREHOLE PUMPS AT OSHOEK LAND PORT OF ENTRY</b>				
	0.1	<b>MAINTENANCE AND REPAIRS OF BOREHOLE PUMPS</b>				
		.01 Check and repair faulty water meter (Number of times over 3 years : (3))	Number	1.00		
		.02 Check and repair faulty pressure gauges (Number of times over 3 years : (3))	Number	1.00		
		.03 Check all electrical fittings and connections (Number of times over 3 years : (3))	Number	1.00		
	1902.00	<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 107.50	Rate Only
	1903.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	-		
	<b>TOTAL</b>	<b>SCHEDULE NO 6.5 INSTALLATION CM5:OSHOEK LPOE BULK WATER AND EXTERNAL WATER RETICULATION -RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.6 INSTALLATION CM6: OSHOEK LPOE -ROADS AND STORMWATER DRAINAGE -RELATED MAINTENANCE WORK**

						<b>OSHOEK CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	2000.00	MAINTENANCE OF ROADS AND STORMWATER DRAINAGE				
	2001.00	Maintenance of completed installation:				
		.01 Roads and stormwater	point	360.00		
		The maintenance scope is described in technical specifications: CA, CB				
	2002.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 107.50	Rate Only
	Carried forward					

**SCHEDULE NO 6.6 INSTALLATION CM6: OSHOEK LPOE -ROADS AND STORMWATER DRAINAGE  
-RELATED MAINTENANCE WORK**

**OSHOEK CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	2002.01	Road Markings				
		.01 Retro-reflective road- marking paint				
		01 Longitudinal lines:				
		(i) 100 mm wide broken or unbroken lines, white, yellow or red	m	1,500.00		
		.02 Transverse lines and other				
		(i) Broken or unbroken lines, white or yellow.	m2	25.00		
		(ii) Lettering and symbols, white or yellow, repainting existing markings	m2	95.00		
		(iii) Traffic island markings, white or yellow repainting existing markings	m2	130.00		
		.02 Setting out and premarking of lines (excluding traffic island markings, lettering and symbols)	km	3.00		
	TOTAL	SCHEDULE NO 6.6 INSTALLATION CM6: OSHOEK LPOE -ROADS AND STORMWATER DRAINAGE -RELATED MAINTENANCE WORK- CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.7 INSTALLATION CM7: OSHOEK LPOE - WASTEWATER AND SEWER NETWORKS - RELATED MAINTENANCE WORK****OSHOEK CIVIL MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	7.4.9	<b>MAINTENANCE OF SEWER PROCESSING PLANT AT OSHOEK LAND PORT OF ENTRY</b>				
		<b>.01 GENERAL MAINTENANCE</b>				
		.01 Check blowers, contact media, pipework, valves, diffusers, effluent clarity, sludge return, removal of excess scum, pump operation, supply of chlorine tablets (Number of times over 3 years : (12))	Number	1.00		
		.02 Check surge control weir (Number of times over 3 years : (12))	Number	1.00		
		.03 Clean aerator filters (Number of times over 3 years : (12))	Number	1.00		
		.04 Break up clarifier scum (Number of times over 3 years : (12))	Number	1.00		
		.05 Clean aeration diffuser (Number of times over 3 years : (12))	Number	1.00		
		.06 Pump sludge from aeration tank (Number of times over 3 years : (3))	Number	1.00		
		.07 Pump sludge from trash trap (Number of times over 3 years : (3))	Number	1.00		
		.08 Repair aerator (Number of times over 3 years : (3))	Number	1.00		
		.09 Test and calibrate flow measuring equipment (Number of times over 3 years : (6))	Number	1.00		
		.10 Decommissioning and removal of aerator gearboxes and motors (Number of times over 3 years : (3))	Number	2.00		
	Carried forward					

**SCHEDULE NO 6.7 INSTALLATION CM7: OSHOEK LPOE - WASTEWATER AND SEWER NETWORKS - RELATED MAINTENANCE WORK**
**OSHOEK CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	7.4.9	.11 Service aerator gearboxes and motors (Number of times over 3 years : (3))  .12 Reconditioning aerator gearboxes and motor (Number of times over 3 years : (3))  .13 Installation and commissioning of aerator gearboxes and motors (Number of times over 3 years : (3))  .14 Clean walk way bridge metal structure, launders and splash gates and gearbox motor frame and apply corrosion protection and paint (Number of times over 3 years : (6))  <b>MAINTENANCE OF SEWER PROCESSING PLANT AT OSHOEK PORT OF</b>  <b>.01 GENERAL MAINTENANCE</b>  .15 Isolate clarifier and remove sludge clean and corrosion protect sludge withdrawal pipe (Number of times over 3 years : (6))  .16 Clean stilling well including the related pipe work protect against corrosion and paint with a chemical resistant epoxy tarenamel, including preparation, surface repair, priming and coating as per specification EC 03 (Number of times over 3 years : (1))  .17 Decommission and remove waste activated sludge and clarifierscour gate valve (Number of times over 3 years : (6))  .18 Service waste activated sludge and clarifier scour gate valve (Number of times over 3 years : (6))  .19 Install, testing and commission waste activated sludge and clarifier scour gate valve (Number of times over 3 years : (6))  .20 Decommissioning and removal of SULZER pumping equipment (Number of times over 3 years : (3))  .21 Service and repair of SULZER pumping equipment (Number of times over 3 years : (3))  .22 Install, testing and commission SULZER pumping equipment (Number of times over 3 years : (3))	Number  Number  Number  Number  Number  m2  Number  Number  Number  Number  Number  Number	1.00  1.00  1.00  2.00  1.00  30.00  1.00  1.00  1.00  2.00  2.00  2.00		
		Carried forward				



**SCHEDULE NO 6.7 INSTALLATION CM7: OSHOEK LPOE - WASTEWATER AND SEWER NETWORKS - RELATED MAINTENANCE WORK**
**OSHOEK CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<p>OPERATING OF WASTEWATER TREATMENT WORKS</p> <p>Operation as per Technical Specification EM: Operate Wastewater Works, comprising logging and recording on a spread sheet data base, with graphs, all wastewater operational data, including flow rates, volumes of screenings, all motor running hours, amperes and volts, and on-site chemical analysis including pH, temperature, ORP, EC, visual inspection of effluent in Imhoff cone, and semi-quantitative ammonium and nitrate, indications and observations of colour, odour, foam, scum, algae, as well as incidents and observations of raw wastewater characteristics; provision of all tools and equipment for operation, such as nets, rakes, brooms, spades, wheelbarrows; removal, washing and drying of solids (screenings, scum and debris); setting and adjustment of valves according to process configuration from time to time; scour humus tank and check for clumps of floating sludge; set and adjust recycling pump period; supply chemicals for disinfection, make up solution and set correct dosing rate; maintain site and control access to the site and attend to works 24 hours per day at:</p> <p>.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown</p> <p>.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown</p> <p>.03 Payment reduction due to exceeding of maximum allowable down-time during malicious damage breakdown</p>		360.00		
			days		-R 1,075.00	Rate Only
			days		-R 107.50	Rate Only
			days		-R 107.50	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 6.7 INSTALLATION CM7: OSHOEK LPOE - WASTEWATER AND SEWER NETWORKS - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF NO 6.8 INSTALLATION CM8: NERSTON LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**

						NERSTON CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	800.00	<b><u>SCHEDULE NO. 14: INSTALLATION</u></b>				
	800.01	<b><u>STRUCTURAL AND BUILDING RELATED</u></b> <b><u>Maintenance of a complete installation:</u></b> The Contractor shall attend to the following <ul style="list-style-type: none"> <li>• Doors (hinges, locksets, strike plates,</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>				
		1 NERSTON: Proper maintenance of Structural and Building related work of operational area and residential area. Maintenance is not limited to the above-mentioned	points	360.00		
	800.02	<b><u>Maintenance report</u></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.				
		1 NERSTON: Comprehensive monthly facilities inspection report Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime:	points	360.00		
	Carried Forward					

**SCHEDULE OF NO 6.8 INSTALLATION CM8: NERSTON LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**

SCHEDULE OF NO 6.8 INSTALLATION CM8: NERSTON LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK						NERSTON CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	800.03	<b><u>Payment reduction:</u></b> Payment reduction due to exceeding of maximum allowable down-time during damage repair Maintenance of tools and equipment on following page:  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 1 NERSTON Programme of the Works	days		-R 500.00	Rate only
	800.06	<b><u>LATE SUBMISSION OF ACCEPTABLE</u></b> <b><u>Payment reduction:</u></b> NERSTON: Payment reduction due to late submission of an adequate/acceptable Programme of the Works	days		-R 500.00	Rate only
	800.07	<b><u>Maintenance Control Plan</u></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. 1 NERSTON: Complete and accurate Maintenance Control Plan	points	360.00		
	800.08	<b><u>Payment reduction for late submission of the Maintenance Plan:</u></b> <b><u>LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</u></b> Payment reduction: NERSTON: Payment reduction due to late submission of an adequate/acceptable Maintenance Control Plan	days		-R 500.00	Rate only
		Carried Forward				

**SCHEDULE OF NO 6.8 INSTALLATION CM8: NERSTON LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**
**NERSTON CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>MAINTENANCE OF KITCHENETTES AT NERSTON LAND PORT OF ENTRY</b>  <b>MAINTENANCE AND REPAIRS OF KITCHENETTES</b>  .01 Varnishing wooden cabinets (Number of times over 3 years : (3))  .02 Powder coating steel cabinets (Number of times over 3 years : (3))  .03 Tightening of loose screws, replacing hinges and loose snap fittings (Number of times over 3 years : (3))  .04 Sealing and filling gorges and open areas on wooden cabinets (Number of times over 3 years : (3))  .05 Smoothing rough and jagged edges on wooden cabinets (Number of times over 3 years : (3))  .06 Replacing cabinet doors, parts and tops (Number of times over 3 years : (3))  .07 Repairing and/or replacing built-in sinks (Number of times over 3 years : (3))  .08 Repairing and/or replacing water supply fixtures and fittings (Number of times over 3 years : (3))  .09 Repairing and/or replacing water drainage fittings (Number of times over 3 years : (3))	Number  Number  Number  Number  Number  Number  Number  Number  Number	24.00  24.00  24.00  24.00  24.00  24.00  24.00  24.00  24.00		
	<b>TOTAL</b>	<b>SCHEDULE OF NO 6.8 INSTALLATION CM8: NERSTON LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.9 INSTALLATION CM9: NERSTON LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**

						<b>NERSTON CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>2601.00</b>	<b>Maintenance of completed installation:</b>				
		.01 Plumbing, drainage and wet services installation	point	360.00		
	<b>7.3.2</b>	<b>MAINTENANCE OF WET SERVICES AT NERSTON PORT OF ENTRY</b>				
	<b>0.1</b>	<b>GENERAL SERVICING OF HOT WATER GEYSER UNITS</b>				
		.01 Check thermostat temperature levels (Number of times over 3 years : (3))	Number	21.00		
		.02 Check pressure release valve (Number of times over 3 years : (3))	Number	21.00		
		.03 Check water pipe inlet and outlet connections for lime build up (Number of times over 3 years : (3))	Number	21.00		
		.04 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	21.00		
		.05 Check element for lime build up (Number of times over 3 years : (3))	Number	21.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	21.00		
		.07 Flush sediment at the bottom of the geyser tank (Number of times over 3 years : (3))	Number	21.00		
		.06 Check tightnesect all electncal terminals (Number of times over 3 years : (3))	Number	21.00		
		.09 Check all piping for leaks (Number of times over 3 years : (3))	Number	21.00		
		.10 Check electrical earthling and protection fuses (Number of times over 3 years : (3))	Number	21.00		
	Carried forward					

**SCHEDULE NO 6.9 INSTALLATION CM9: NERSTON LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**
**NERSTON CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	7.3.2	<b>MAINTENANCE OF WET SERVICES AT NERSTON PORT OF ENTRY</b>				
	0.1	<b>GENERAL SERVICING OF HOT WATER GEYSER UNITS</b>				
		.11 Check geyser mountings and braces (Number of times over 3 years : (3))	Number	21.00		
	0.2	<b>GENERAL SERVICING OF DRAINAGE</b>				
		.01 Check and repair faulty rubber connections - P, S and U Trap drainage connections (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check, repair and/or tighten pipe clamps and couples (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check, repair and/or replace faulty or unrepeatable uPVC Soil and Waste Pipe Fittings (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check, repair and/or faulty or damaged uPVC Soil and Waste Pipe Pipes (Number of times over 3 years : (6))	Sum	3.00		
		.05 Check drainage for blocking and perform unblocking and cleaning procedures (Number of times over 3 years : (6))	Sum	3.00		
	0.3	<b>GENERAL SERVICING OF DOMESTIC WATER PLUMBING AND PIPING</b>				
		.01 Check and repair faulty pipework and plumbing with cracks and leaks (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check, repair and clean pipework and plumbing with lime build-up and (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check and repair faulty pipework and plumbing connections, seals and rubbers for leaks. grime build up and wears and tear (to outlet taps to (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check and repair faulty valves, (ball, non- return, gate valves etc..) (Number of times over 3 years : (6))	Sum	3.00		
		Carried forward				

**SCHEDULE NO 6.9 INSTALLATION CM9: NERSTON LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**
**NERSTON CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	0.4	<b>GENERAL SERVICING, REPAIR, DISTAINING AND DISINFECTING OF</b>				
		.01 Check and clean water closet (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check and repair cistern type flushing mechanism (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check and clean hand wash basins (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check and clean urinal (Number of times over 3 years : (6))	Sum	3.00		
		.05 Check and clean brassware (Number of times over 3 years : (6))	Sum	3.00		
		.06 Check and clean stainless steel laundry basins (Number of times over 3 years : (6))	Sum	3.00		
		<b>The maintenance scope is described in technical specifications: AA,PAA,CF,EG,KA</b>				
	2602.00	<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-R	1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-R	107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-R	107.50	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 6.9 INSTALLATION CM9: NERSTON LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY:</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.10: INSTALLATION CM10: NERSTON LPOE - FENCING, GATES CLEANING AND SITE KEEPING - RELATED MAINTENANCE WORK**

						<b>NERSTON CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	2800.00	MAINTENANCE OF FENCING AND GATES				
	2801.00	Maintenance of a completed installation:				
		.01 Fencing and Gates	points	360.00		
		The maintenance scope is described in technical specification: CC				
	2802.00	MAINTENANCE OF SITE KEEPING INSTALLATION				
	2803.00	Maintenance of a completed installation:				
		.01 Cleaning of site, removal of waste and cutting grass	points	360.00		
		The maintenance scope is described in technical specifications: CG, CJ				
	2804.00	MAINTENANCE OF CLEANING OF BUILDINGS				
	2804.00	Maintenance of a completed installation:				
		.01 Cleaning of Buildings	points	360.00		
		The maintenance scope is described in technical specifications: CJ				
	2806.00	Payment reduction:				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	<b>TOTAL</b>	<b>SCHEDULE NO 6.10: INSTALLATION CM10: NERSTON LPOE - FENCING, GATES CLEANING AND SITE KEEPING - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.11: INSTALLATION CM11: NERSTON LPOE- BULK WATER AND EXTERNAL WATER RETICULATION - RELATED MAINTENANCE WORK****NERSTON CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	2900.00	MAINTENANCE OF BULK WATER AND EXTERNAL WATER RETICULATION				
	2901.00	Maintenance of completed installation:				
		.01 Bulk water, External water and pump systems	point	360.00		
		The maintenance scope is described in technical specifications: CE,CI,DA,DL,DN,EK,FN KA				
	7.4.6	MAINTENANCE OF BOREHOLE PUMPS AT NERSTON LAND PORT OF ENTRY				
	0.1	MAINTENANCE AND REPAIRS OF BOREHOLE PUMPS				
		.01 Check and repair faulty water meter (Number of times over 3 years : (3))	Number	1.00		
		.02 Check and repair faulty pressure gauges (Number of times over 3 years : (3))	Number	1.00		
		.03 Check all electrical fittings and connections (Number of times over 3 years : (3))	Number	1.00		
	2902.00	Payment reduction				
		Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	TOTAL	SCHEDULE NO 6.11: INSTALLATION CM11: NERSTON LPOE- BULK WATER AND EXTERNAL WATER RETICULATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.12: INSTALLATION CM12:NERSTON LPOE- ROADS AND STORMWATER DRAINAGE RELATED MAINTENANCE WORK**

						NERSTON CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3000.00	MAINTENANCE OF ROADS AND STORMWATER DRAINAGE				
	3001.00	Maintenance of completed installation:				
		.01 Roads and stormwater	point	360.00		
		The maintenance scope is described in technical specifications: CA, CB				
	3002.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	3003.00	Road Markings				
		.01 Retro-reflective road- marking paint				
		.01 Longitudinal lines:				
		(i) 100 mm wide broken or unbroken lines, white, yellow or red	m	1,100.00		
		.02 Transverse lines and other				
		(i) Broken or unbroken lines, white or yellow.	m2	70.00		
		(iii) Traffic island markings, white or yellow repainting existing markings	m2	120.00		
	TOTAL	SCHEDULE NO 6.12: INSTALLATION CM12:NERSTON LPOE- ROADS AND STORMWATER DRAINAGE RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.13: INSTALLATION CM13:NERSTON LPOE - WASTEWATER AND SEWER NETWORKS - RELATED MAINTENANCE WORK**

						<b>NERSTON CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
		<b>SANITATION/SEPTIC TANKS</b>				
	<b>3502.00</b>	<b>Maintenance of completed installation:</b>				
		.01 De-sludging of septic tanks	point	360.00		
		<b>The maintenance scope is described in technical specifications: AA,PAA,CF,EG,KA</b>				
	<b>3502.00</b>	<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	<b>TOTAL</b>	<b>SCHEDULE NO 6.13: INSTALLATION CM13:NERSTON LPOE - WASTEWATER AND SEWER NETWORKS - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF NO 6.14 INSTALLATION CM14: WAVELY LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK****WAVELY CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	800.00 800.01	<b><u>SCHEDULE NO. 14: INSTALLATION</u></b> <b><u>STRUCTURAL AND BUILDING RELATED</u></b> <b><u>Maintenance of a complete installation:</u></b> The Contractor shall attend to the following <ul style="list-style-type: none"> <li>• Doors (hinges, locksets, strike plates,</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>				
		1 WAVELY: Proper maintenance of Structural and Building related work of operational area and residential area. Maintenance is not limited to the above-mentioned	points	360.00		
	800.02	<b><u>Maintenance report</u></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.				
		1 WAVELY: Comprehensive monthly facilities inspection report Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime:	points	360.00		
	Carried Forward					

**SCHEDULE OF NO 6.14 INSTALLATION CM14: WAVELY LPOE - STRUCTURAL AND BUILDING -  
RELATED MAINTENANCE WORK**

						<b>WAVELY CIVIL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	Brought forward					
	800.03	<b><u>Payment reduction:</u></b> Payment reduction due to exceeding of maximum allowable down-time during damage repair Maintenance of tools and equipment on following page:  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 1 WAVELY Programme of the Works	days		-R 500.00	Rate only
	800.06	<b><u>LATE SUBMISSION OF ACCEPTABLE</u></b> <b><u>Payment reduction:</u></b> WAVELY: Payment reduction due to late submission of an adequate/acceptable Programme of the Works	days		-R 500.00	Rate only
	800.07	<b><u>Maintenance Control Plan</u></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. 1 WAVELY: Complete and accurate Maintenance Control Plan	points	360.00		
	800.08	<b><u>Payment reduction for late submission of the Maintenance Plan:</u></b> <b><u>LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</u></b> Payment reduction: WAVELY: Payment reduction due to late submission of an adequate/acceptable Maintenance Control Plan	days		-R 500.00	Rate only
	Carried Forward					

**SCHEDULE OF NO 6.14 INSTALLATION CM14: WAVELY LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**
**WAVELY CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>MAINTENANCE OF KITCHENETTES AT WAVELY LAND PORT OF ENTRY</b>  <b>MAINTENANCE AND REPAIRS OF KITCHENETTES</b>  .01 Varnishing wooden cabinets (Number of times over 3 years : (3))  .02 Powder coating steel cabinets (Number of times over 3 years : (3))  .03 Tightening of loose screws, replacing hinges and loose snap fittings (Number of times over 3 years : (3))  .04 Sealing and filling gorges and open areas on wooden cabinets (Number of times over 3 years : (3))  .05 Smoothing rough and jagged edges on wooden cabinets (Number of times over 3 years : (3))  .06 Replacing cabinet doors, parts and tops (Number of times over 3 years : (3))  .07 Repairing and/or replacing built-in sinks (Number of times over 3 years : (3))  .08 Repairing and/or replacing water supply fixtures and fittings (Number of times over 3 years : (3))  .09 Repairing and/or replacing water drainage fittings (Number of times over 3 years : (3))	Number  Number  Number  Number  Number  Number  Number  Number  Number	6.00  6.00  6.00  6.00  6.00  6.00  6.00  6.00		
	<b>TOTAL</b>	<b>SCHEDULE OF NO 6.14 INSTALLATION CM14: WAVELY LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.15: INSTALLATION CM15: WAVELY LPOE- PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**

						WAVELY CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3501.00	Maintenance of completed installation:				
		.01 Plumbing, drainage and wet services installation	point	360.00		
	7.3.3	MAINTENANCE OF WET SERVICES AT WAVELY PORT OF ENTRY				
	0.1	GENERAL SERVICING OF HOT WATER GEYSER UNITS				
		.01 Check thermostat temperature levels (Number of times over 3 years : (3))	Number	6.00		
		.02 Check pressure release valve (Number of times over 3 years : (3))	Number	6.00		
		.03 Check water pipe inlet and outlet connections for lime build up (Number of times over 3 years : (3))	Number	6.00		
		.04 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	6.00		
		.05 Check element for lime build up (Number of times over 3 years : (3))	Number	6.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	6.00		
		.07 Flush sediment at the bottom of the geyser tank (Number of times over 3 years : (3))	Number	6.00		
		.08 Check tightness of all electrical terminals (Number of times over 3 years : (3))	Number	6.00		
		.09 Check all piping for leaks (Number of times over 3 years : (3))	Number	6.00		
		.10 Check electrical earthing and protection fuses (Number of times over 3 years : (3))	Number	6.00		
	Carried forward					

**SCHEDULE NO 6.15: INSTALLATION CM15: WAVELY LPOE- PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**

**WAVELY CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	0.2	.11 Check geyser mountings and braces (Number of times over 3 years : (3))	Number	6.00		
		<b>GENERAL SERVICING OF DRAINAGE</b>				
		.01 Check and repair faulty rubber connections - P, S and U Trap drainage connections (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check, repair and/or tighten pipe clamps and couples (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check, repair and/or replace faulty or unrepeatable uPVC Soil and Waste Pipe Fittings (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check, repair and/or faulty or damaged uPVC Soil and Waste Pipe Pipes (Number of times over 3 years : (6))	Sum	3.00		
		.05 Check drainage for blocking and perform unblocking and cleaning procedures (Number of times over 3 years : (6))	Sum	3.00		
	0.3	<b>GENERAL SERVICING OF DOMESTIC WATER PLUMBING AND PIPING</b>				
		.01 Check and repair faulty pipework and plumbing with cracks and leaks (Number of times over 3 years : (6))	Sum	1.00		
		.02 Check, repair and clean pipework and plumbing with lime build-up and corrosion (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check and repair faulty pipework and plumbing connections, seals and rubbers for leaks, grime build up and wears and tear (to outlet taps to various equipment) (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check and repair faulty valves, (ball, non- return, gate valves etc..) (Number of times over 3 years : (6))	Sum	3.00		
		Carried forward				



**SCHEDULE NO 6.15: INSTALLATION CM15: WAVELY LPOE- PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**
**WAVELY CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	7.3.3	MAINTENANCE OF WET SERVICES AT WAVERLY PORT OF ENTRY				
	0.4	GENERAL SERVICING, REPAIR, DISTAINING AND DISINFECTING OF SANITARYWARE				
		.01 Check and clean water closet (Number of times over 3 years : (6))	Sum	1.00		
		.02 Check and repair cistern type flushing mechanism (Number of times over 3 years : (6))	Sum	1.00		
		.03 Check and clean hand wash basins (Number of times over 3 years : (6))	Sum	1.00		
		.04 Check and clean urinal (Number of times over 3 years : (6))	Sum	1.00		
		.05 Check and clean brassware (Number of times over 3 years : (6))	Sum	1.00		
		.06 Check and clean stainless steel laundry basins (Number of times over 3 years : (6))	Sum	1.00		
		The maintenance scope is described in technical specifications: AA,PAA,CF,EG,KA				
	3502.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	3503.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	2.00		
	TOTAL	SCHEDULE NO 6.15: INSTALLATION CM15: WAVELY LPOE- PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.16: INSTALLATION CM16: WAVELY LPOE- FENCING CLEANING AND SITE KEEPING INSTALLATION - RELATED MAINTENANCE WORK****WAVELY CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3701.00	Maintenance of a completed installation:  .01 Fencing and Gates  The maintenance scope is described in technical specification: CC	points	360.00		
	3702.00	MAINTENANCE OF SITE KEEPING INSTALLATION				
	3703.00	Maintenance of a completed installation:  .01 Cleaning of site, removal of waste and cutting grass  The maintenance scope is described in technical specifications: CG, CJ	points	360.00		
	3704.00	MAINTENANCE OF CLEANING OF BUILDINGS				
	3705.00	Maintenance of a completed installation:  .01 Cleaning of Buildings  The maintenance scope is described in technical specifications: CJ	points	360.00		
	3706.00	Payment reduction:  .01 Payment reduction due to exceeding of maximum allowable down-time  .02 Payment reduction due to exceeding of maximum allowable down-time  .03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00 -R 107.50 -R 107.50	Rate only Rate only Rate only
	TOTAL	SCHEDULE NO 6.16: INSTALLATION CM16: WAVELY LPOE- FENCING CLEANING AND SITE KEEPING INSTALLATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.17: INSTALLATION CM17: WAVELY LPOE - BULK WATER AND EXTERNAL WATER RETICULATION - RELATED MAINTENANCE WORK**

						WAVELY CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3800.00	MAINTENANCE OF BULK WATER AND EXTERNAL WATER RETICULATION				
	3801.00	Maintenance of completed installation:				
		.01 Bulk water, External water and pump systems	point	360.00		
		The maintenance scope is described in technical specifications: CE,CI,DA,DL,DN,EK,FN KA				
	7.4.5	MAINTENANCE OF BOREHOLE PUMPS AT NERSTON LAND PORT OF ENTRY				
	0.1	MAINTENANCE AND REPAIRS OF BOREHOLE PUMPS				
		.01 Check and repair faulty water meter (Number of times over 3 years : (3))	Sum	1.00		
		.02 Check and repair faulty pressure gauges (Number of times over 3 years : (3))	Sum	1.00		
		.03 Check all electrical fittings and connections (Number of times over 3 years : (3))	Sum	1.00		
	3802.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	TOTAL	SCHEDULE NO 6.17: INSTALLATION CM17: WAVELY LPOE - BULK WATER AND EXTERNAL WATER RETICULATION - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.18: INSTALLATION CM18: WAVELY LPOE - ROADS AND STORMWATER DRAINAGE- RELATED MAINTENANCE WORK****WAVELY CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3900.00	MAINTENANCE OF ROADS AND STORMWATER DRAINAGE				
	3901.00	Maintenance of completed installation:				
		.01 Roads and stormwater	point	360.00		
		The maintenance scope is described in technical specifications: CA, CB				
	3902.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	TOTAL	SCHEDULE NO 6.18: INSTALLATION CM18: WAVELY LPOE - ROADS AND STORMWATER DRAINAGE- RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.19: INSTALLATION CM 19: WAVELY LPOE - WASTEWATER AND SEWER NETWORKS- RELATED MAINTENANCE WORK**

						WAVELY CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<b>SANITATION/SEPTIC TANKS</b>				
		<b>Maintenance of completed installation:</b>				
		.01 De-sludging of septic tanks	point	360.00		
		<b>The maintenance scope is described in technical specifications: AA,PAA,CF,EG,KA</b>				
		<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days			
		.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 1,075.00	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 107.50	Rate only
		Call-out for repair of Emergency Breakdown (24 hours) response.	No		-R 107.50	Rate only
	<b>TOTAL</b>	<b>SCHEDULE NO 6.19: INSTALLATION CM 19: WAVELY LPOE - WASTEWATER AND SEWER NETWORKS- RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF NO 6.20 INSTALLATION CM20: JOSEFDAL LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**

						JOSEFDAL CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	800.00	<b><u>SCHEDULE NO. 20: INSTALLATION</u></b>				
	800.01	<b><u>STRUCTURAL AND BUILDING RELATED</u></b> <b><u>Maintenance of a complete installation:</u></b> The Contractor shall attend to the following <ul style="list-style-type: none"> <li>• Doors (hinges, locksets, strike plates,</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>				
		1 JOSEFDAL: Proper maintenance of Structural and Building related work of operational area and residential area. Maintenance is not limited to the above-mentioned	points	360.00	R 250.00	R 90,000.00
	800.02	<b><u>Maintenance report</u></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.				
		1 JOSEFDAL: Comprehensive monthly facilities inspection report Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime:	points	360.00	R 200.00	R 72,000.00
	800.03	<b><u>Payment reduction:</u></b> Payment reduction due to exceeding of maximum allowable down-time during damage repair Maintenance of tools and equipment on following page:	days			
	Carried Forward					

**SCHEDULE OF NO 6.20 INSTALLATION CM20: JOSEFDAL LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**

SCHEDULE OF NO 6.20 INSTALLATION CM20: JOSEFDAL LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK						JOSEFDAL CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	800.06	<p>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</p> <p>1 JOSEFDAL Programme of the Works</p> <p><b><u>LATE SUBMISSION OF ACCEPTABLE</u></b></p> <p><b><u>Payment reduction:</u></b></p> <p>JOSEFDAL: Payment reduction due to late submission of an adequate/acceptable Programme of the Works</p>	points	360.00		
	800.07	<p><b>Maintenance Control Plan</b></p> <p>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.</p> <p>1 JOSEFDAL: Complete and accurate Maintenance Control Plan</p>	days		-R 500.00	Rate only
	800.08	<p><b><u>Payment reduction for late submission of the Maintenance Plan: LATE SUBMISSION OF ACCEPTABLE MAINTENANCE CONTROL PLAN</u></b></p> <p><b><u>Payment reduction: JOSEFDAL: Payment reduction due to late submission of an adequate/acceptable Maintenance Control Plan</u></b></p>	points	360.00		
			days		-R 500.00	Rate only
		Carried Forward				

**SCHEDULE OF NO 6.20 INSTALLATION CM20: JOSEFDAL LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK**
**JOSEFDAL CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>MAINTENANCE OF KITCHENETTES AT LAND JOSEFDAL PORT OF ENTRY</b>  <b>MAINTENANCE AND REPAIRS OF KITCHENETTES</b>  .01 Varnishing wooden cabinets (Number of times over 3 years : (3))  .02 Powder coating steel cabinets (Number of times over 3 years : (3))  .03 Tightening of loose screws, replacing hinges and loose snap fittings (Number of times over 3 years : (3))  .04 Sealing and filling gorges and open areas on wooden cabinets (Number of times over 3 years : (3))  .05 Smoothing rough and jagged edges on wooden cabinets (Number of times over 3 years : (3))  .06 Replacing cabinet doors, parts and tops (Number of times over 3 years : (3))  .07 Repairing and/or replacing built-in sinks (Number of times over 3 years : (3))  .08 Repairing and/or replacing water supply fixtures and fittings (Number of times over 3 years : (3))  .09 Repairing and/or replacing water drainage fittings (Number of times over 3 years : (3))	Number  Number  Number  Number  Number  Number  Number  Number  Number	4.00  4.00  4.00  4.00  4.00  4.00  4.00  4.00  4.00		
	<b>TOTAL</b>	<b>SCHEDULE OF NO 6.20 INSTALLATION CM20: JOSEFDAL LPOE - STRUCTURAL AND BUILDING - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY</b>				



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.21: INSTALLATION CM21: JOSEFDAL LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**

						JOSEFDALS CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	4400.00	MAINTENANCE OF PLUMBING, DRAINAGE AND WET SERVICES				
	4600.00	Maintenance of completed installation:				
	4600.00	.01 Plumbing, drainage and wet services installation	point	360.00		
	7.3.1	MAINTENANCE OF WET SERVICES AT JOSEFDAL PORT OF ENTRY				
	0.1	GENERAL SERVICING OF HOT WATER GEYSER UNITS				
		.01 Check thermostat temperature levels (Number of times over 3 years : (3))	Number	8.00		
		.02 Check pressure release valve (Number of times over 3 years : (3))	Number	8.00		
		.03 Check water pipe inlet and outlet connections for ltrne build up (Number of times over 3 years : (3))	Number	8.00		
		.04 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	8.00		
		.05 Check element for lime build up (Number of times over 3 years : (3))	Number	8.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	8.00		
		.07 Flush sediment at the bottom of the geyser tank (Number of times over 3 years : (3))	Number	8.00		
		.08 Check tightness of all electrical terminals (Number of times over 3 years : (3))	Number	8.00		
	Carried forward					

**SCHEDULE NO 6.21: INSTALLATION CM21: JOSEFDAL LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**
**JOSEFDALS CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.09 Check all piping for leaks (Number of times over 3 years : (3))	Number	8.00		
		.10 Check electrical earthling and protection fuses (Number of times over 3 years : (3))	Number	8.00		
		.11 Check geyser mountings and braces (Number of times over 3 years : (3))	Number	8.00		
	<b>0.2</b>	<b>GENERAL SERVICING OF DRAINAGE</b>				
		.01 Check and repair faulty rubber connections - P, S and U Trap drainage connections (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check, repair and/or tighten pipe clamps and couples (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check, repair and/or replace faulty or unrepeatable uPVC Soil and Waste Pipe Fittings (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check, repair and/or faulty or damaged uPVC Soil and Waste Pipe Pipes (Number of times over 3 years : (6))	Sum	3.00		
		.05 Check drainage for blocking and perform unblocking and cleaning procedures (Number of times over 3 years : (6))	Sum	3.00		
	<b>0.3</b>	<b>GENERAL SERVICING OF DOMESTIC WATER PLUMBING AND PIPING</b>				
		.01 Check and repair faulty pipework and plumbing with cracks and leaks (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check, repair and clean pipework and plumbing with lime build-up and corrosion (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check and repair faulty pipework and plumbing connections, seals and rubbers for leaks, grime build up and wears and tear (to outlet taps to various equipment) (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check and repair faulty valves, (ball, non-return, gate valves etc. ) (Number of times over 3 years : (6))	Sum	3.00		
		Carried forward				

**SCHEDULE NO 6.21: INSTALLATION CM21: JOSEFDAL LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**
**JOSEFDALS CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	<b>0.4</b>	<b>GENERAL SERVICING, REPAIR, DISTAINING AND DISINFECTING OF SANITARY WARE</b>				
		.01 Check and clean water closet (Number of times over 3 years : (6))	Sum	3.00		
		.02 Check and repair cistern type flushing mechanism (Number of times over 3 years : (6))	Sum	3.00		
		.03 Check and clean hand wash basins (Number of times over 3 years : (6))	Sum	3.00		
		.04 Check and clean urinal (Number of times over 3 years : (6))	Sum	3.00		
		.05 Check and clean brassware (Number of times over 3 years : (6))	Sum	3.00		
		.06 Check and clean stainless steel laundry basins (Number of times over 3 years : (6))	Sum	3.00		
	<b>4601.00</b>	<b>The maintenance scope is described in technical specifications: AA,PAA,CF,EG,KA</b>				
		<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days		-R 1,075.00	Rate only
	<b>4602.00</b>	.02 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	<b>4603.00</b>	.03 Payment reduction due to exceeding of maximum allowable down-time	days		-R 107.50	Rate only
	<b>TOTAL</b>	<b>SCHEDULE NO 6.21: INSTALLATION 6.21: JOSEFDAL LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.21: INSTALLATION CM21: JOSEFDAL LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK**

						JOSEFDAL CIVIL MAINTENANCE WORK
BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	4600.00	MAINTENANCE OF FENCING CLEANING AND SITE KEEPING INSTALLATION				
	4601.00	Maintenance of a completed installation:				
		.01 Fencing and Gates	points	360.00		
		The maintenance scope is described in technical specification: CC				
	4602.00	MAINTENANCE OF SITE KEEPING INSTALLATION				
	4603.00	Maintenance of a completed installation:				
		.01 Cleaning of site, removal of waste and cutting grass	points	360.00		
		The maintenance scope is described in technical specifications: CG, CJ				
	4604.00	MAINTENANCE OF CLEANING OF BUILDINGS				
	4605.00	Maintenance of a completed installation:				
		.01 Cleaning of Buildings	points	360.00		
		The maintenance scope is described in technical specifications: CJ				
	3706.00	Payment reduction:				
		.01 Payment reduction due to exceeding of maximum allowable down-time during	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time during	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time during	days		-R 107.50	Rate only
	TOTAL	SCHEDULE NO 6.21: INSTALLATION CM21: JOSEFDAL LPOE - PLUMBING, DRAINAGE AND WET SERVICES - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.23: INSTALLATION CM23: JOSEFDAL LPOE - BULK WATER AND EXTERNAL WATER RETICULATION - RELATED MAINTENANCE WORK****JOSEFDAL CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	4700.00	MAINTENANCE OF BULK WATER AND EXTERNAL WATER RETICULATION				
	4701.00	Maintenance of completed installation:				
		.01 Bulk water, External water and pump systems	point	360.00		
		The maintenance scope is described in technical specifications: CE,CI,DA,DL,DN,EK,FN KA				
	7.4.5	MAINTENANCE OF BOREHOLE PUMPS AT JOSEFDAL LAND PORT OF ENTRY				
	0.1	MAINTENANCE AND REPAIRS OF BOREHOLE PUMPS				
		.01 Check and repair faulty water meter (Number of times over 3 years : (3))	Sum	1.00		
		.02 Check and repair faulty pressure gauges (Number of times over 3 years : (3))	Sum	1.00		
		.03 Check all electrical fittings and connections (Number of times over 3 years : (3))	Sum	1.00		
	4702.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during	days	-R	1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time during	days	-R	107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time during	days	-R	107.50	Rate only
	TOTAL	SCHEDULE NO 6.23: INSTALLATION CM23: JOSEFDAL LPOE - BULK WATER AND EXTERNAL WATER RETICULATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.24: INSTALLATION CM24: JOSEFDAL LPOE - ROADS AND STORMWATER DRAINAGE - RELATED MAINTENANCE WORK**

**JOSEFDAL CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	4800.00	MAINTENANCE OF ROADS AND STORMWATER DRAINAGE				
	4801.00	Maintenance of completed installation:				
		01 Roads and stormwater	point	360.00		
		The maintenance scope is described in technical specifications: CA, CB				
	4802.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time during	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time during	days		-R 107.50	Rate only
	TOTAL	SCHEDULE NO 6.24: INSTALLATION CM24: JOSEFDAL LPOE - ROADS AND STORMWATER DRAINAGE - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 6.25: INSTALLATION CM25:JOSEFDAL LPOE - WASTEWATER AND SEWER NETWORKS- RELATED MAINTENANCE WORK****JOSEFDAL CIVIL  
MAINTENANCE  
WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		<b>SANITATION/SEPTIC TANKS</b>				
		<b>Maintenance of completed installation:</b>				
		.01 De-sludging of septic tanks	point	360.00		
		<b>The maintenance scope is described in technical specifications: AA,PAA,CF,EG,KA</b>				
		<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-R 107.50	Rate only
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	<b>TOTAL</b>	<b>SCHEDULE NO 6.25: INSTALLATION CM25:JOSEFDAL LPOE - WASTEWATER AND SEWER NETWORKS- RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**

SoQ No.: 7.1	Oshoek- Building electrical - Operational Area related maintenance work	R
SoQ No.: 7.2	Oshoek- Building electrical - Residentail area related maintenance work	R
SoQ No.: 7.3	Oshoek- Standby power installation related maintenance work	R
SoQ No.: 7.4	Oshoek- External lighting installation related maintenance work	R
SoQ No.: 7.5	Nerston - Building electrical services related maintenance work	R
SoQ No.: 7.6	Nerston - Standby power installation related maintenance work	R
SoQ No.: 7.7	Nerston - External lighting installation related maintenance work	R
SoQ No.: 7.8	WAVELY - Building electrical services related maintenance work	R
SoQ No.: 7.9	WAVELY - Standby power installation related maintenance work	R
SoQ No.: 7.10	WAVELY - External lighting installation related maintenance work	R
SoQ No.: 7.11	JOSEFDAL - Building electrical services related maintenance work	R
SoQ No.: 7.12	JOSEFDAL - Standby power installation related maintenance work	R
SoQ No.: 7.13	JOSEFDAL - External lighting installation related maintenance work	R

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

R

SIGNED ON BEHALF OF TENDERER:



## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No.: 7.1 INSTALLATION EM1: OSHOEK LPOE- BUILDING ELECTRICAL- OPERATIONAL AREA - RELATED MAINTENANCE WORK**

						<b>OSHOEK ELECTRICAL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	1600.00	SCHEDULE OF QUANTITIES No.: 7.1 INSTALLATION EM1: OSHOEK - BUILDING ELECTRICAL-OPERATIONAL AREA - RELATED MAINTENANCE WORK				
	1600.00	MAINTENANCE OF BUILDING ELECTRICAL SERVICES				
	1601.00	Maintenance of completed installation:				
		.01 Building electrical services	point	360.00		
		The maintenance scope is described in technical specifications: AA, PAA,				
	1602.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
	1603.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	2.00		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No.: 7.1 INSTALLATION EM1: OSHOEK LPOE- BUILDING ELECTRICAL- OPERATIONAL AREA - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No.: 7.2 INSTALLATION EM2: OSHOEK LPOE - BUILDING ELECTRICAL - RESIDENTIAL AREA - RELATED MAINTENANCE WORK****OSHOEK ELECTRICAL MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	1700.00	SCHEDULE OF QUANTITIES No.: 7.2 INSTALLATION EM2: OSHOEK - BUILDING ELECTRICAL - RESIDENTIAL AREA - RELATED MAINTENANCE WORK				
	1700.00	MAINTENANCE OF BUILDING ELECTRICAL SERVICES				
	1701.00	Maintenance of completed installation:				
		.01 Building electrical services	point	360.00		
		The maintenance scope is described in technical specifications: AA, PAA,				
	7.4.6	MAINTENANCE OF KITCHEN INSTALLATIONS AT OSHOEK PORT OF ENTRY				
		.01 Bain Marie				
		.01 Check, repair and/or replace electrical power supply connections (Number of times over 3 years : (3))	Number	1.00		
		.02 Check, repair and/or replace heating element and controls (Number of times over 3 years : (3))	Number	1.00		
		.03 Clean and polish stainless steel body (Number of times over 3 years : (3))	Number	1.00		
		.04 Test Bain Marie Number (Number of times over 3 years : (3))	Number	1.00		
		.02 Electrical Stoves				
		01 Check, repair and/or replace elecincal power supply connections (Number of times over 3 years : (3))	Number	6.00		
		.02 Check, repair and/or replace oven heating elements (Number of times over 3 years : (3))	Number	6.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No.: 7.2 INSTALLATION EM2: OSHOEK LPOE - BUILDING ELECTRICAL - RESIDENTIAL AREA - RELATED MAINTENANCE WORK**

## OSHOEK ELECTRICAL MAINTENANCE WORK

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.03 Check, repair and/or replace cooker heating plates (Number of times over 3 years : (3))	Number	6.00		
		.04 Check, repair and/or replace cooker dials and controls (Number of times over 3 years : (3))	Number	6.00		
		.05 Clean and polish exterior and oven interior of stove (Number of times over 3 years : (3))	Number	6.00		
		.06 Test stove (Number of times over 3 years : (3))	Number	6.00		
	7.4.7	<b>MAINTENANCE OF LAUNDRY ROOM EQUIPMENT AT OSHOEK PORT OF ENTRY</b>				
		<b>.01 Washing Machines</b>				
		.01 Check, repair and/or replace electrical power supply connections (Number of times over 3 years : (12))	Number	5.00		
		.02 Check, repair and/or replace water heating elements (Number of times over 3 years : (12))	Number	5.00		
		.03 Check, repair and/or replace dials and controls (Number of times over 3 years : (12))	Number	5.00		
		.04 Check, repair and/or replace driver motor cam belt (Number of times over 3 years : (12))	Number	5.00		
		.05 Clean interior washing machine drum (Number of times over 3 years : (12))	Number	5.00		
		.06 Test washing machine (Number of times over 3 years : (12))	Number	5.00		
		Carried forward				

**SCHEDULE OF QUANTITIES No.: 7.2 INSTALLATION EM2: OSHOEK LPOE - BUILDING ELECTRICAL - RESIDENTIAL AREA - RELATED MAINTENANCE WORK**

**OSHOEK ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>0.02 Tumble Dryers</b>				
		.01 Check, repair and/or replace electrical power supply connections (Number of times over 3 years : (12))	Number	1.00		
		.02 Check, repair and/or replace air heating elements (Number of times over 3 years : (12))	Number	1.00		
		.03 Check, repair and/or replace dials and controls (Number of times over 3 years : (12))	Number	1.00		
		.04 Check, repair and/or replace air blower fan (Number of times over 3 years : (12))	Number	1.00		
		.05 Clean interior tumble drying machine drum (Number of times over 3 years : (12))	Number	1.00		
		.06 Test tumble dryer (Number of times over 3 years : (12))	Number	1.00		
	<b>1702.00</b>	<b>Payment reduction</b>				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
	<b>1703.00</b>	Call-out for repair of Emergency Breakdown (24 hours) response.	No	3.00		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No.: 7.2 INSTALLATION EM2: OSHOEK LPOE - BUILDING ELECTRICAL - RESIDENTIAL AREA - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No:7.3 INSTALLATION EM3: OSHOEK LPOE - STANDBY POWER  
INSTALLATION - RELATED MAINTENANCE WORK**

**OSHOEK  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	2100.00	SCHEDULE OF QUANTITIES No:7.3 INSTALLATION EM3: OSHOEK - STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK				
	2100.00	MAINTENANCE OF STANDBY POWER INSTALLATION				
	2101.00	Maintenance of completed installation:				
		.01 Standby Power installation	point	360.00		
		The maintenance scope is described in technical specifications: HB				
	2102.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
	2103.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	5.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No.7.3 INSTALLATION EM3: OSHOEK LPOE - STANDBY POWER  
INSTALLATION - RELATED MAINTENANCE WORK**

**OSHOEK  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
		Mandatory periodical services not included in preventative maintenance				
	2104.00	GENERATOR				
	2104.01	Service 300 kVA genset	number	6.00		
	2104.02	Service CAT diesel engine 300kVA unit	number	6.00		
	2104.03	Supply diesel fuel	litre	40,000.00		
	2104.04	Filter Cartridge for MK3 fuel water separator	number	3.00		
	2104.05	Filter Cartridge for MK4 fuel water separator	number	3.00		
	TOTAL	SCHEDULE OF QUANTITIES No:7.3 INSTALLATION EM3: OSHOEK LPOE - STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OF QUANTITIES No.: 6.4 INSTALLATION EM4: OSHOEK LPOE - EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK**

						<b>OSHOEK ELECTRICAL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	2200.00	SCHEDULE OF QUANTITIES No.: 6.4 INSTALLATION 6.4: OSHOEK - EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK				
	2200.00	MAINTENANCE OF EXTERNAL LIGHTING INSTALLATION				
	2201.00	Maintenance of completed installation:				
		.01 External Lighting Installation	point	360.00		
		The maintenance scope is described in technical specifications: HB				
	2102.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
	2203.00	AREA LIGHTING SYSTEM - REPAIR CONTROL AREA				
	2203.01	Re-lamp luminaire:				
		.01 400W HPS Floodlight	number	50.00		
		.02 250W HPS Floodlight	number	30.00		
		.03 250W HPSE Streetlight	number	20.00		
	Carried forward					

**SCHEDULE OF QUANTITIES No.: 6.4 INSTALLATION EM4: OSHOEK LPOE - EXTERNAL LIGHTING  
INSTALLATION - RELATED MAINTENANCE WORK**

**OSHOEK  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	<b>2203.02</b>	<b>Service Luminaire</b>				
		.01 400W HPS Floodlight	number	12.00		
		.02 250W HPS Floodlight	number	5.00		
		.03 250W HPSE Streetlight	number	2.00		
	<b>2203.03</b>	<b>Replace Luminaire</b>				
		.01 Luminaire 400W HPS Floodlight	number	20.00		
		.02 250W HPS Floodlight	number	10.00		
		.03 250W HPSE Streetlight	number	10.00		
	2203.04	Service area light pole	number	20.00		
	<b>2203.05</b>	<b>Replace arealight pole</b>				
		01 9 Meter Wooden pole	number	1.00		
		.02 9 Meter Fibreglass pole	number	1.00		
	<b>2203.06</b>	<b>Replace pole mounted brackets</b>				
		01 Floodlight mounting for double floodlights	number	2.00		
	<b>2204.00</b>	<b>SECURITY FENCE LIGHTING SYSTEM</b>				
	<b>2204.01</b>	<b>Re-lamp luminaire:</b>				
		.01 250W HPS Floodlight	number	41.00		
	<b>2204.01</b>	<b>Service Luminaire</b>				
		.01 250W HPS Floodlight	number	41.00		
	<b>2203.04</b>	<b>Replace luminaire</b>				
		01 250W HPS Floodlight	number	2.00		
	2204.02	Service Security light pole	number	41.00		
	<b>2204.03</b>	<b>Replace Security light pole</b>				
		01 7m Wooden pole Floodlight	number	3.00		
		Carried forward				



**SCHEDULE OF QUANTITIES No.: 6.4 INSTALLATION EM4: OSHOEK LPOE - EXTERNAL LIGHTING  
INSTALLATION - RELATED MAINTENANCE WORK**
**OSHOEK  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	<b>2204.04</b>	<b>Junction boxes including pole mount brackets</b>				
		.01 Junction boxes IP65 (Enclosure) 1.5mm thick 3CR12 stainless steel, 250mm high x 175mm wide x 75 mm deep complete with cable entry gland plates, mounting plates and pole mounting kit.	number	2.00		
	<b>2205.00</b>	<b>STREET LIGHTING HOUSES</b>				
	<b>2205.01</b>	<b>Re-lamp luminaire:</b>				
		.01 125W MV Post Top luminaire	number	36.00		
	<b>2205.02</b>	<b>Service Luminaire</b>				
		.01 125W MV Post Top luminaire	number	36.00		
	2205.03	Service light pole	number	3.00		
	<b>2205.04</b>	<b>Replace luminaire</b>				
		.01 125W MV Post Top luminaire	number	2.00		
	<b>2205.05</b>	<b>Replace area light pole</b>				
		.01 3.5 Meter Fibreglass pole	number	4.00		
	<b>2206.00</b>	<b>DISTRIBUTION KIOSKS</b>				
	2206.01	Service Distribution Kiosk	number	15.00		
	2206.02	Remove rust and paint kiosk	number	1.00		
	2206.03	Supply and install padlocks (Key Alike)	number	10.00		
	2206.04	Replace door hinges	number	2.00		
	2206.05	Supply and install door handles	number	1.00		
	2206.06	Replace distribution kiosk (6 way)	number	1.00		
	<b>TOTAL</b>	<b>SCHEDULE OF QUANTITIES No.: 6.4 INSTALLATION EM4: OSHOEK LPOE - EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.5: INSTALLATION EM5: NERSTON LPOE - BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK**

**NERSTON  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	2700.00	SCHEDULE NO 7.5: INSTALLATION EM5: NERSTON- BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK				
	2700.00	MAINTENANCE OF BUILDING ELECTRICAL SERVICES				
	2701.00	Maintenance of completed installation:				
		.01 Building electrical services	point	360.00		
		The maintenance scope is described in technical specifications: AA, PAA,				
	2702.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 107.50	Rate Only
	2703.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	3.00		
	TOTAL	SCHEDULE NO 7.5: INSTALLATION EM5: NERSTON LPOE - BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.6: INSTALLATION EM6: NERSTON LPOE -STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK****NERSTON  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3100.00	SCHEDULE NO 7.6: INSTALLATION 7.6: NERSTON-STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK				
	3100.00	MAINTENANCE OF STANDBY POWER INSTALLATION				
	3101.00	Maintenance of completed installation:				
		.01 Standby Power installation	point	360.00		
		The maintenance scope is described in technical specifications: HB				
	3102.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 107.50	Rate Only
		Mandatory periodical services not included in preventative maintenance items listed above:				
	3103.00	GENERATOR				
	3103.01	Service 70 kVA genset	number	6.00		
	3103.02	Service John Deere diesel engine 70kVA unit	number	6.00		
	3103.03	Supply diesel fuel	litre	18,000.00		
	3103.04	Filter Cartridge for MK3 fuel water separator	number	3.00		
	3104.05	Filter Cartridge for MK4 fuel water separator	number	3.00		
	<b>TOTAL</b>	<b>SCHEDULE NO 7.6: INSTALLATION EM6: NERSTON LPOE -STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.7: INSTALLATION EM7: NERSTON- EXTERNAL LIGHTING INSTALLATION-RELATED MAINTENANCE WORK****NERSTON  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3200.00	SCHEDULE NO 7.7: INSTALLATION EM7: NERSTON- EXTERNAL LIGHTING INSTALLATION-RELATED MAINTENANCE WORK				
	3200.00	MAINTENANCE OF EXTERNAL LIGHTING INSTALLATION				
	3201.00	Maintenance of completed installation:				
		.01 External Lighting Installation	point	360.00		
		The maintenance scope is described in technical specifications: HB				
	3102.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time	days	-	-R 107.50	Rate Only
	3203.00	AREA LIGHTING, SYSTEM - REPAIR CONTROL AREA				
	2203.01	Re-lamp luminaire:				
		.01 400W HPS Floodlight	number	20.00		
		.02 250W HPS Floodlight	number	10.00		
		.03 250W HPSE Streetlight	number	10.00		
	Carried forward					

**SCHEDULE NO 7.7: INSTALLATION EM7: NERSTON- EXTERNAL LIGHTING INSTALLATION-RELATED MAINTENANCE WORK**
**NERSTON  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>3203.02</b>	<b>Service Luminaire</b>				
		.01 400W HPS Floodlight	number	10.00		
		.02 250W HPS Floodlight	number	12.00		
		.03 250VV HPSE Streetlight	number	2.00		
	<b>3203.03</b>	<b>Replace Luminaire</b>				
		.02 250W HPS Floodlight	number	1.00		
		.03 250W HPSE Streetlight	number	1.00		
	3203.04	Service area light pole	number	10.00		
	<b>3203.05</b>	<b>Replace arealight pole</b>				
		.01 9 Meter Wooden pole	number	1.00		
		.02 7 Meter Fibreglass pole	number	2.00		
	<b>3203.06</b>	<b>Replace pole mounted brackets</b>				
		.01 Floodlight mounting for double floodlights	number	2.00		
	<b>3204.00</b>	<b>SECURITY FENCE LIGHTING SYSTEM</b>				
	<b>3204.01</b>	<b>Re-lamp luminaire:</b>				
		.01 250W HPS Floodlight	number	20.00		
	<b>3204.01</b>	<b>Service Luminaire</b>				
		.01 250W HPS Floodlight	number	20.00		
	<b>3203.04</b>	<b>Replace luminaire</b>				
		01 250W HPS Floodlight	number	1.00		
	3204.02	Service Security light pole	number	20.00		
	<b>3204.03</b>	<b>Replace Security light pole</b>				
		.01 7m Wooden pole Floodlight	number	3.00		
	Carried forward					

**SCHEDULE NO 7.7: INSTALLATION EM7: NERSTON- EXTERNAL LIGHTING INSTALLATION-RELATED MAINTENANCE WORK**
**NERSTON  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>3204.04</b>	<b>Junction boxes including pole mount brackets</b>				
		.01 Junction boxes IP65 (Enclosure) 1.5mm Thick 3CR12 stainless steel, 250mm high x 175mm wide x 75 mm deep complete with cable entry gland plates, mounting plates and pole mounting kit.	number	2.00		
	<b>2205.00</b>	<b>STREET LIGHTING HOUSES</b>				
	<b>3205.01</b>	<b>Re-lamp luminaire:</b>				
		.01 125W MV Streetlight	number	5.00		
		.02 125W MV Post Top luminaire	number	13.00		
	<b>3205.02</b>	<b>Service Luminaire</b>				
		.01 125W MV Streetlight	number	5.00		
		.02 125W MV Post Top luminaire	number	13.00		
	3205.03	Service light pole	number	5.00		
	<b>3205.04</b>	<b>Replace luminaire</b>				
		.01 125W MV Streetlight	number	1.00		
		.02 125W MV Post Top luminaire	number	1.00		
	<b>3205.05</b>	<b>Replace area light pole</b>				
		.01 3.5 Meter Fibreglass pole	number	2.00		
	<b>3206.00</b>	<b>DISTRIBUTION KIOSKS</b>				
	3206.01	Service Distribution Kiosk	number	2.00		
	<b>TOTAL</b>	<b>SCHEDULE NO 7.7: INSTALLATION EM7: NERSTON- EXTERNAL LIGHTING INSTALLATION-RELATED MAINTENANCE WORK- CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.8: INSTALLATION EM8: WAVELY- BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK****WAVELY ELECTRICAL MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	3600.00	SCHEDULE NO 7.8: INSTALLATION EM8: WAVELY- BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK				
	3600.00	MAINTENANCE OF BUILDING ELECTRICAL SERVICES				
	3601.00	Maintenance of completed installation:				
		.01 Building electrical services	point	360.00		
		The maintenance scope is described in technical specifications: AA, PAA, CF, EG, KA				
	3602.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days	-	-R 107.50	Rate Only
	3603.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	3.00		
	TOTAL	SCHEDULE NO 7.8: INSTALLATION EM8: WAVELY- BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.9: INSTALLATION EM9: WAVELY LPOE - STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK**

						<b>WAVELY ELECTRICAL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	4000.00	SCHEDULE NO 7.9: INSTALLATION EM9: WAVELY LPOE - STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK				
	4000.00	MAINTENANCE OF STANDBY POWER INSTALLATION				
	4001.00	Maintenance of completed installation:				
		.01 Standby Power installation	point	360.00		
		The maintenance scope is described in technical specifications: HB				
	4002.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 107.50	Rate Only
	4003.00	Call-out for repair of Emergency Breakdown (24 hours) response	No	5.00		
		Mandatory periodical services not included in preventative maintenance				
	4004.00	GENERATOR				
	4004.01	Service 60 kVA genset	number	6.00		
	4004.02	Service John Deere diesel engine 60kVA unit	number	6.00		
	4004.03	Supply diesel fuel	litre	10,000.00		
	4004.04	Filter Cartridge for MK3 fuel water separator	number	2.00		
	<b>TOTAL</b>	<b>SCHEDULE NO 7.9: INSTALLATION EM9: WAVELY LPOE - STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.10: INSTALLATION EM10: WAVELY- EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK****WAVELY ELECTRICAL MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	4000.00	SCHEDULE NO 7.10: INSTALLATION EM10: WAVELY- EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK				
	4000.00	MAINTENANCE OF EXTERNAL LIGHTING INSTALLATION				
	4001.00	Maintenance of completed installation:				
		.01 External Lighting Installation	point	360.00		
		The maintenance scope is described in technical specifications: HB				
	4002.00	Payment reduction				
		01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days	-	-R 107.50	Rate Only
	4003.00	AREA LIGHTING SYSTEM - REPAIR CONTROL AREA				
	4003.01	Re-lamp luminaire:				
		.02 250W HPS Floodlight	number	20.00		
		.03 250W HPSE Streetlight	number	20.00		
	Carried forward					

**SCHEDULE NO 7.10: INSTALLATION EM10: WAVELY- EXTERNAL LIGHTING INSTALLATION -  
RELATED MAINTENANCE WORK**
**WAVELY ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>4003.02</b>	<b>Service Luminaire</b>				
		.02 250W HPS Floodlight	number	20.00		
		.03 250W HPSE Streetlight	number	20.00		
	<b>4004.00</b>	<b>SECURITY FENCE LIGHTING SYSTEM</b>				
	<b>4004.01</b>	<b>Re-lamp luminaire:</b>				
		.02 250W HPS Floodlight	number	30.00		
	<b>400.01</b>	<b>Service Luminaire</b>				
		.02 250W HPS Floodlight	number	22.00		
	<b>4001.01</b>	<b>Replace luminaire</b>				
		.01 250W HPS Floodlight	number	20.00		
	4004.02	Service security light pole	number	22.00		
	<b>4004.03</b>	<b>Replace security light pole</b>				
		.01 9 Meter Wooden pole	number	1.00		
	<b>4005.00</b>	<b>STREET LIGHTING HOUSES</b>				
	<b>4005.01</b>	<b>Re-lamp luminaire:</b>				
		.01 125W MV Streetlight	number	4.00		
	<b>4005.02</b>	<b>Service Luminaire</b>				
		.01 125W MV Streetlight	number	4.00		
	4005.03	Service light pole	number	4.00		
	<b>4005.04</b>	<b>Replace luminaire</b>				
		01 125W MV Streetlight	number	1.00		
	<b>TOTAL</b>	<b>SCHEDULE NO 7.10: INSTALLATION EM10: WAVELY- EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.11: INSTALLATION EM11: JOSEFDAL- BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK**

**JOSEFDAL  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	4005.00	SCHEDULE NO 7.11: INSTALLATION EM11: JOSEFDAL- BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK				
	4005.00	MAINTENANCE OF BUILDING ELECTRICAL SERVICES				
	4501.00	Maintenance of completed installation:				
		.01 Building electrical services	point	360.00		
		The maintenance scope is described in technical specifications: AA, PAA, CF, EG,				
	4502.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 1,075.00	Rate only
		.02 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 107.50	Rate only
		.03 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 107.50	Rate only
	4503.00	Call-out for repair of Emergency Breakdown (24 hours) response.	No	5.00		
	<b>TOTAL</b>	<b>SCHEDULE NO 7.11: INSTALLATION EM11: JOSEFDAL- BUILDING ELECTRICAL SERVICES - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.12: INSTALLATION EM12 JOSEFDAL LPOE -STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK**

**JOSEFDAL  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	4900.00	SCHEDULE NO 7.12: INSTALLATION EM12 JOSEFDAL LPOE - STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK				
	4900.00	MAINTENANCE OF STANDBY POWER INS				
	4901.00	Maintenance of completed installation:				
		.01 Standby Power installation	point	360.00		
		The maintenance scope is described in				
	4902.00	Payment reduction				
		01 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 107.50	Rate Only
	4903.00	Call-out for repair of Emergency Breakdown (24 hours) response	No	5.00		
		Mandatory periodical services not included in preventative maintenance Items listed above:				
	4904.00	GENERATOR				
	4904.01	Service 40 kVA genset	number	6.00		
	4904.02	Service John Deere diesel engine 40kVA unit	number	6.00		
	4904.03	Supply diesel fuel	litre	10,000.00		
	4904.04	Filter Cartridge for MK3 fuel water separator	number	2.00		
	TOTAL	SCHEDULE NO 7.12: INSTALLATION EM12 JOSEFDAL LPOE -STANDBY POWER INSTALLATION - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 7.13: INSTALLATION EM13 JOSEFDAL- EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK****JOSEFDAL  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
---	5000.00	SCHEDULE NO 7.13: INSTALLATION EM13 JOSEFDAL- EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK				
	5000.00	MAINTENANCE OF EXTERNAL LIGHTING INSTALLATION				
	5001.00	Maintenance of completed installation:				
		.01 External Lighting Installation	point	360.00		
		The maintenance scope is described in technical specifications: HB				
	5002.00	Payment reduction				
		.01 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 1,075.00	Rate Only
		.02 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 107.50	Rate Only
		.03 Payment reduction due to exceeding of maximum allowable down-time during	days	-	-R 107.50	Rate Only
	5003.00	AREA LIGHTING SYSTEM - REPAIR CONTROL AREA				
	5003.01	Re-lamp luminaire:				
		.01 250W HPS Floodlight	number	4.00		
		.02 250W HPSE Streetlight	number	2.00		
		.03 80W MV Post Top	number	2.00		
	Carried forward					

**SCHEDULE NO 7.13: INSTALLATION EM13 JOSEFDAL- EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK**

**JOSEFDAL  
ELECTRICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	<b>5003.02</b>	<b>Service Luminaire</b>				
		.01 250W HPS Floodlight	number	4.00		
		.02 250W HPSE Streetlight	number	2.00		
		.03 80W MV Post Top	number	2.00		
	<b>5004.00</b>	<b>SECURITY FENCE LIGHTING SYSTEM</b>				
	<b>5004.01</b>	<b>Re-lamp luminaire:</b>				
		.02 250W HPS Floodlight	number	27.00		
	<b>5004.01</b>	<b>Service Luminaire</b>				
		.02 250W HPS Floodlight	number	27.00		
	<b>5001.01</b>	<b>Replace luminaire</b>				
		.01 250W HPS Floodlight	number	7.00		
	5004.02	Service security light pole	number	27.00		
	<b>5004.03</b>	<b>Replace security light pole</b>				
		.01 9 Meter Wooden pole	number	4.00		
	<b>5005.00</b>	<b>STREET LIGHTING HOUSES</b>				
	<b>5005.01</b>	<b>Re-lamp luminaire:</b>				
		.01 125W MV Streetlight	number	4.00		
	<b>5005.02</b>	<b>Service Luminaire</b>				
		.01 125W MV Streetlight	number	4.00		
	5005.03	Service light pole	number	4.00		
	<b>5005.04</b>	<b>Replace luminaire</b>				
		.01 125W MV Streetlight with miniature phot	number	5.00		
	<b>5006.00</b>	<b>DISTRIBUTION KIOSKS</b>				
	5006.01	Service Distribution kiosk	number	1.00		
	5006.02	Remove rust and paint kiosk	number	1.00		
	<b>TOTAL</b>	<b>SCHEDULE NO 7.13: INSTALLATION EM13 JOSEFDAL- EXTERNAL LIGHTING INSTALLATION - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**

	<b>MECHANICAL MAINTENANCE WORK</b>
SCHEDULE NO 8.1: INSTALATION MM1: OSHOEK - HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS	R .....
SCHEDULE NO 8.2: INSTALATION MM2: NERSTON - HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS	R .....
SCHEDULE NO 8.3: INSTALATION MM3: WAVELY - HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS	R .....
SCHEDULE NO 8.4: INSTALATION MM4: JOSEFDAL - HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS	R .....
SCHEDULE NO 8.5: INSTALATION MM5: OSHOEK CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
SCHEDULE NO 8.6: INSTALATION MM6: NERSTON CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
SCHEDULE NO 8.7: INSTALATION M: WAVELY CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
SCHEDULE NO 8.8: INSTALATION M17: JOSEFDAL CONVENTIONAL FIRE FIGHTING EQUIPMENT	R .....
SCHEDULE NO 8.9: INSTALATION M18: OSHOEK - INCINERATOR INSTALLATION	R .....

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**TOTAL OF SCHEDULE OF QUANTITIES - MECHANICAL 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. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.1: INSTALLATION MM1: OSHOEK LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**

**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	7.2.4	<b>MAINTENANCE OF HEATING, VENTILATION AND AIR-CONDITIONING EQUIPMENT AT OSHOEK LAND PORT OF ENTRY</b>				
		<b>GENERAL</b>				
	0.1	<b>SERVICE AC UNITS</b>				
		.01 Clean air intake screen (Number of times over 3 years : (3))	Number	146.00		
		.02 Replace filters (Number of times over 3 years : (3))	Set	85.00		
		.03 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	42.00		
		.04 Check setting and operation of ail pressure switches and reset (Number of times over 3 years : (3))	Number	125.00		
		.05 Check setting and operation for all safety switches. i.e..LP&HPswitches, oil pressure switch (Number of times over 3 years : (3))	Number	125.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	125.00		
		.07 Check running current of fans and compressor and settings and operation of overloads (Number of times over 3 years : (3))	Number	125.00		
		.08 Check tightness of all electrical terminals (Number of times over 3 years : (3))	Number	125.00		
		.09 Ensure operation of local and remote isolators (Number of times over 3 years : (3))	Number	125.00		
		.10 Reposition and strap cables (Number of times over 3 years : (3))	Number	40.00		
	Carried forward					



**SCHEDULE NO 8.1: INSTALLATION MM1: OSHOEK LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**

**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.11 Carry out a leak test on all refrigeration piping and components inclusive of evaporator and condenser (Number of times over 3 years : (3))	Number	125.00		
		.12 Replace compressor vibration mounts (Number of times over 3 years : (3))	Number	125.00		
		.13 Check refrigerant charge Sight glass being clear or Flashing (Number of times over 3 years : (3))	Set	125.00		
		.14 Clean condensate tray and test drainage operation (Number of times over 3 years : (3))	Number	125.00		
		.15 Clean evaporator and condenser fan ballads and check unbalance (Number of times over 3 years : (3))	Number	125.00		
		<b>.03 Kitchen Ventilation System (KVS)</b>				
		.01 Check, repair and/or replace electrical power supply connections (Number of times over 3 years : (3))	Number	1.00		
		.02 Check, reefair and/or replace controls (Number of times over 3 years : (3))	Number	1.00		
		.03 Check, repair and/or replace extraction fan controls (Number of times over 3 years : (3))	Number	1.00		
		.04 Clean and polish stainless steel body (Number of times over 3 years : (3))	Number	1.00		
		.05 Remove and clean baffle filters (Number of times over 3 years : (3))	Number	1.00		
		.06 Clean KVS ducting with grease and game remover (Number of times over 3 years : (3))	Number	1.00		
		.07 Test kitchen ventilation system (Number of times over 3 years : (3))	Number	1.00		
		Carried forward				

**SCHEDULE NO 8.1: INSTALLATION MM1: OSHOEK LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**

**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>.03 Cold and Freezer Room</b>				
		.01 Check, repair and/or replace electrical power supply connections and switches to lights (Number of times over 3 years : (3))	Number	2.00		
		.02 Check, repair and/or replace temperature thermometers (Number of times over 3 years : (3))	Number	2.00		
		.03 Clean and distain all stainless steel shelving (Number of times over 3 years : (3))	Number	4.00		
		.03 Clean and distain all Chroma deck walls (Number of times over 3 years : (3))	Sum	1.00		
		.04 Perform extensive maintenance of Condenser and Evaporator (Number of times over 3 years : (3))	Sum	2.00		
	7.2.5	<b>GENERAL INFORMATION LOGGING AND RECORDING FOR OSHOEK LAND PORT OF ENTRY</b>				
	0.1	<b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>				
		01 Heating, ventilation and air-conditioning equipment (Number of times over 3 years : (3))	Sum	1.00		
	0.2	<b>Update all as build information and locations of assets</b>				
		.01 Labelling of all Heating, Ventilation and Air Conditioning (HVAC) equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Sum	1.00		
		Carried forward				

**SCHEDULE NO 8.1: INSTALLATION MM1: OSHOEK LPOE- HEATING, VENTILATION AND  
AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**
**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>7.6</b>	<b>Payment reduction:</b>				
	7.6.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	7.6.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	7.6.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	7.6.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.1: INSTALLATION MM1: OSHOEK LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.2: INSTALLATION MM2: NERSTON LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**

**NERSTON  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	7.2.2	MAINTENANCE OF HEATING, VENTILATION AND AIR-CONDITIONING EQUIPMENT AT NERSTON LAND PORT OF ENTRY				
	0.1	SERVICE AC UNITS				
		.01 Clean air intake screen (Number of times over 3 years : (3))	Number	50.00		
		.02 Replace filters (Number of times over 3 years : (3))	Set	20.00		
		.03 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	20.00		
		.04 Check setting and operation of all pressure switches and reset (Number of times over 3 years : (3))	Number	50.00		
		.05 Check setting and operation for all safety switches, i.e.. LP&HP (Number of times over 3 years : (3))	Number	50.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	50.00		
		.07 Check running current of fans and compressor and settings and (Number of times over 3 years : (3))	Number	50.00		
		.08 Check tightness of all electrical terminals (Number of times over 3 years : (3))	Number	50.00		
		.09 Ensure operation of local and remote isolators (Number of times over 3 years : (3))	Number	50.00		
		.10 Reposition and strap cables (Number of times over 3 years : (3))	Number	10.00		
	Carried forward					

**SCHEDULE NO 8.2: INSTALLATION MM2: NERSTON LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**
**NERSTON  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.11 Carry out a leak test on all refrigeration piping and components (Number of times over 3 years : (3))	Number	50.00		
		.12 Replace compressor vibration mounts (Number of times over 3 years : (3))	Number	50.00		
		.13 Check refrigerant charge sight glass being clear or flashing (Number of times over 3 years : (3))	Set	50.00		
		.14 Clean condensate tray and test drainage operation (Number of times over 3 years : (3))	Number	50.00		
		.15 Clean evaporator and condenser fan ballads and check unbalance (Number of times over 3 years : (3))	Number	50.00		
	7.2.5	<b>GENERAL INFORMATION LOGGING AND RECORDING FOR NERSTON LAND PORT OF ENTRY</b>				
	0.1	<b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>				
		01 Heating, ventilation and air-conditioning equipment (Number of times over 3 years : (3))	Sum	1.00		
	0.2	<b>Update all as build information and locations of assets</b>				
		.01 Labelling of all conventional fire fighting equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Sum	1.00		
		Carried forward				

**SCHEDULE NO 8.2: INSTALLATION MM2: NERSTON LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**

**NERSTON  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>7.6</b>	<b>Payment reduction:</b>				
	7.6.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	7.6.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	7.6.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	7.6.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.2: INSTALLATION MM2: NERSTON LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.3: INSTALLATION MM3: WAVELY LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**
**WAVELY  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<b>7.2.3</b>	<b>MAINTENANCE OF HEATING, VENTILATION AND AIR-CONDITIONING EQUIPMENT AT WAVELY LAND PORT OF ENTRY</b>				
	<b>0.1</b>	<b>SERVICE AC UNITS</b>				
		.01 Clean air intake screen (Number of times over 3 years : (3))	Number	50.00		
		.02 Replace filters (Number of times over 3 years : (3))	Set	20.00		
		.03 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	20.00		
		.04 Check setting and operation of all pressure switches and reset (Number of times over 3 years : (3))	Number	50.00		
		.05 Check setting and operation for all safety switches, i.e.. LP&HPswitches. oil pressure switch (Number of times over 3 years : (3))	Number	50.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	50.00		
		.07 Check running cispent of fans and compressor and settings and operation of overloads (Number of times over 3 years : (3))	Number	50.00		
		.08 Check tightness of all electrical terminals (Number of times over 3 years : (3))	Number	50.00		
		.09 Ensure operation of local and remote isolators (Number of times over 3 years : (3))	Number	50.00		
		.10 Reposition and strap cables (Number of times over 3 years : (3))	Number	35.00		
	Carried forward					

**SCHEDULE NO 8.3: INSTALLATION MM3: WAVELY LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**

**WAVELY  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	7.2.3	<b>MAINTENANCE OF HEATING, VENTILATION AND AIR-CONDITIONING EQUIPMENT AT WAVELY LAND PORT OF ENTRY</b>				
		<b>GENERAL</b>				
	0.1	<b>SERVICE AC UNITS</b>				
		.10 Reposition and strap cables (Number of times over 3 years : (3))	Number	5.00		
		.11 Carry out a leak test on all refrigeration piping and components inclusive of evaporator and condenser (Number of times over 3 years : (3))	Number	50.00		
		.12 Replace compressor vibration mounts (Number of times over 3 years : (3))	Number	50.00		
		.13 Check refrigerant charge sight glass being clear or flashing (Number of times over 3 years : (3))	Set	50.00		
		.14 Clean condensate tray and test drainage operation (Number of times over 3 years : (3))	Number	50.00		
		.15 Clean evaporator and condenser fan ballads and check unbalance (Number of times over 3 years : (3))	Number	50.00		
	7.2.5	<b>GENERAL INFORMATION LOGGING AND RECORDING FOR WAVELY LAND PORT OF ENTRY</b>				
	0.1	<b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>				
		01 Heating, ventilation and air-conditioning equipment (Number of times over 3 years : (3))	Sum	1.00		
	0.2	<b>Update all as build information and locations of assets</b>				
		.01 Labelling of all conventional fire fighting equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Sum	1.00		
	Carried forward					



**SCHEDULE NO 8.3: INSTALLATION MM3: WAVELY LPOE- HEATING, VENTILATION AND  
AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**
**WAVELY  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>7.6</b>	<b>Payment reduction:</b>				
	7.6.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	7.6.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	7.6.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	7.6.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.3: INSTALLATION MM3: WAVELY LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.4: INSTALLATION MM4: JOSEFDAL LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK****JOSEFDAL  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	7.2.1	MAINTENANCE OF HEATING, VENTILATION AND AIR-CONDITIONING EQUIPMENT AT JOSEFDAL LAND PORT OF ENTRY				
	0.1	SERVICE AC UNITS				
		.01 Clean air intake screen (Number of times over 3 years : (3))	Number	12.00		
		.02 Replace filters (Number of times over 3 years : (3))	Set	6.00		
		.03 De-rust neutralize and touch up paint work (Number of times over 3 years : (3))	Number	8.00		
		.04 Check setting and operation of all pressure switches and reset (Number of times over 3 years : (3))	Number	14.00		
		.05 Check setting and operation for all safely switches, i.e.. LP&HP (Number of times over 3 years : (3))	Number	12.00		
		.06 Check setting and operation of thermostat (Number of times over 3 years : (3))	Number	8.00		
		.07 Check running current of fans and compressor and settings and (Number of times over 3 years : (3))	Number	8.00		
		.08 Check tightness of all electrical terminals (Number of times over 3 years : (3))	Number	12.00		
		.09 Ensure operation of local and remote isolators (Number of times over 3 years : (3))	Number	14.00		
		.10 Reposition and strap cables (Number of times over 3 years : (3))	Number	10.00		
	Carried forward					

**SCHEDULE NO 8.4: INSTALLATION MM4: JOSEFDAL LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**

**JOSEFDAL  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		.11 Carry out a leak test on all refrigeration piping and components (Number of times over 3 years : (3))	Number	10.00		
		.12 Replace compressor vibration mounts (Number of times over 3 years : (3))	Number	10.00		
		.13 Check refrigerant charge sight glass being clear or flashing (Number of times over 3 years : (3))	Set	10.00		
		.14 Clean condensate tray and test drainage operation (Number of times over 3 years : (3))	Number	10.00		
		.15 Clean evaporator and condenser fan ballads and check unbalance (Number of times over 3 years : (3))	Number	10.00		
	7.2.5	<b>GENERAL INFORMATION LOGGING AND RECORDING FOR JOSEFDAL LAND PORT OF ENTRY</b>				
	0.1	<b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>				
		01 Heating, ventilation and air-conditioning equipment (Number of times over 3 years : (3))	Sum	1.00		
	0.2	<b>Update all as build information and locations of assets</b>				
		.01 Labelling of all conventional fire fighting equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Sum	1.00		
		Carried forward				

**SCHEDULE NO 8.4: INSTALLATION MM4: JOSEFDAL LPOE- HEATING, VENTILATION AND  
AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK**
**JOSEFDAL  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>7.4.6</b>	<b>Payment reduction:</b>				
	7.4.6.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	7.4.6.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	7.4.6.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	7.4.6.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.4: INSTALLATION MM4: JOSEFDAL LPOE- HEATING, VENTILATION AND AIRCONDITIONING SYSTEMS - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

## DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.5: INSTALLATION MM5 - OSHOEK CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**

**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	7.1.4	MAINTENANCE OF CONVENTIONAL FIRE FIGHTING EQUIPMENT AT OSHOEK PORT OF ENTRY				
	0.1	Servicing, cleaning and repair of fire hydrants				
		01 General Maintenance of fire hydrants				
		.01 80 mm dia right angle hydrant valves (Number of times over 3 years : (3))	Number	8.00		
		.02 Replace quick coupling catches (Number of times over 3 years : (3))	Number	8.00		
		.03 Replace main hydrant seals (Number of times over 3 years : (3))	Number	8.00		
		.04 Repaint hydrant (Number of times over 3 years : (3))	Number	8.00		
	0.2	Servicing, cleaning and repair of fire hose reels:				
		.01 General Maintenance of fire hose reels				
		.01 Fire hose reels with 30 m hoses (Number of times over 3 years : (3))	Number	20.00		
		.02 Replace 30 m hose (Number of times over 3 years : (3))	Number	4.00		
		.03 Replace hose drum seal (Number of times over 3 years : (3))	Number	4.00		
		.04 Replace gland packing and gasket of shut off valve with repairkit (Number of times over 3 years : (3))	Number	5.00		
	Carried forward					

**SCHEDULE NO 8.5: INSTALLATION MM5 - OSHOEK CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**
**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	0.3	<b>Servicing, cleaning, recharging and repair of fire extinguishers:</b>				
		<b>.01 General serving of fire extinguishers</b>				
		.01 Check, service and repair activation mechanism (Number of times over 3 years : (3))	Number	30.00		
		.02 Recharge discharge cylinder 9kg DCP (Number of times over 3 years : (3))	Number	20.00		
		.03 Reseal discharge mechanism (Number of times over 3 years : (3))	Number	20.00		
		.04 Replace instructions on extinguishers (Number of times over 3 years : (3))	Number	15.00		
		.05 Replace wall-mounting polished hard wood backboard and bracket (Number of times over 3 years : (3))	Number	60.00		
	0.4	<b>Mandatory periodical services not included in preventative maintenance items listed above:</b>				
		.01 Statutory annual servicing of DCP and CO2 fire extinguishers: (Number of times over 3 years : (3))	Number	120.00		
		.03 Statutory annual servicing of fire hydrants (Number of times over 3 years : (3))	Number	8.00		
		.04 Statutory annual servicing of fire hose reels (Number of times over 3 years : (3))	Number	20.00		
		.05 Statutory annual servicing of fire booster pump system including all accessories (Number of times over 3 years : (3))	Number	1.00		
		.06 Fire Fighting Training (Number of times over 3 years : (3))	Sum	1.00		
		<b>GENERAL INFORMATION LOGGING AND RECORDING FOR OSHOEK PORT OF ENTRY</b>				
		<b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>				
		.01 Conventional fire fighting equipment (Number of times over 3 years : (3))	Sum	1.00		
		<b>Update all as build information and locations of assets</b>				
		.01 Labeling of all conventional fire fighting equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Sum	1.00		
		Carried forward				

**SCHEDULE NO 8.5: INSTALLATION MM5 - OSHOEK CONVENTIONAL FIRE FIGHTING EQUIPMENT -  
RELATED MAINTENANCE WORK**
**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>7.5.6</b>	<b>Payment reduction:</b>				
	7.5.6.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	7.5.6.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	7.5.6.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	7.5.6.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.5: INSTALLATION MM5 - OSHOEK CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

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OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.6: INSTALLATION MM6 - NERSTON CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK****NERSTON  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	7.1.2	MAINTENANCE OF CONVENTIONAL FIRE FIGHTING EQUIPMENT AT NERSTON LAND PORT OF ENTRY				
	0.1	Servicing, cleaning and repair of fire hydrants				
		01 General Maintenance of the hydrants				
		.01 50 mm dia right angle hydrant valves (Number of times over 3 years : (3))	Number	4.00		
		.02 Replace quick coupling catches (Number of times over 3 years : (3))	Number	4.00		
		.03 Replace main hydrant seals (Number of times over 3 years : (3))	Number	4.00		
		.04 Repaint hydrant (Number of times over 3 years : (3))	Number	4.00		
	0.2	Servicing, cleaning and repair of fire hose reels:				
		.01 General Maintenance of fire hose reels				
		01 Fire hose reels with 30 m hoses (Number of times over 3 years : (3))	Number	10.00		
		.02 Replace 30 m hose (Number of times over 3 years : (3))	Number	2.00		
		.03 Replace hose drum seal (Number of times over 3 years : (3))	Number	1.00		
		.04 Replace gland packing and gasket of shut off valve with repairkit (Number of times over 3 years : (3))	Number	10.00		
	Carried forward					



**SCHEDULE NO 8.6: INSTALLATION MM6 - NERSTON CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**

**NERSTON  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	0.3	<b>Servicing, cleaning, recharging and repair of fire extinguishers:</b>  <b>.01 General serving of fire extinguishers</b>  .01 Check, service and repair activation mechanism (Number of times over 3 years : (3))  .02 Recharge discharge cylinder 9kg DCP (Number of times over 3 years : (3))  .03 Reseal discharge mechanism (Number of times over 3 years : (3))  .04 Replace instructions on extinguishers (Number of times over 3 years : (3))  .05 Replace wall-mounting polished hard wood backboard and bracket (Number of times over 3 years : (3))	Number	10.00		
	0.4	<b>Mandatory periodical services not included in preventative maintenance items listed above:</b>  .01 Statutory annual servicing of DCP and CO2 fire extinguishers (Number of times over 3 years : (3))  .02 Statutory annual servicing of fire hydrants (Number of times over 3 years : (3))  .04 Statutory annual servicing attire hose reels (Number of times over 3 years : (3))  .03 Statutory annual servicing of fire booster pump system (Number of times over 3 years : (3))  .04 Fire Fighting Training (Number of times over 3 years : (3))  <b>GENERAL INFORMATION LOGGING AND RECORDING FOR NERSTON LAND PORT OF ENTRY</b>  <b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>  .01 Conventional fire fighting equipment (Number of times over 3 years : (3))  <b>Update all as build information and locations of assets</b>  .01 Labeling of all conventional fire fighting equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Number Number Number Number Number Sum	50.00 4.00 10.00 1.00 1.00		
		Carried forward				

**SCHEDULE NO 8.6: INSTALLATION MM6 - NERSTON CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**
**NERSTON  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward					
	<b>7.5.6</b>	<b>Payment reduction:</b>				
	7.5.6.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	7.5.6.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	7.5.6.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	7.5.6.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.6: INSTALLATION MM6 - NERSTON CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY</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 8.7: INSTALLATION MM7 - WAVELY CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**

						<b>WAVELY MECHANICAL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>7.1.3</b>	<b>MAINTENANCE OF CONVENTIONAL FIRE FIGHTING EQUIPMENT AT WAVERLY PORT OF ENTRY</b>				
	<b>0.1</b>	<b>Servicing, cleaning, recharging and repair of fire extinguishers:</b>				
		<b>.01 General serving of fire extinguishers</b>				
		.01 Check, service and repair activation mechanism (Number of times over 3 years : (3))	Number	7.00		
		.02 Recharge discharge cylinder 9kg DCP (Number of times over 3 years : (3))	Number	7.00		
		.03 Reseal discharge mechanism (Number of times over 3 years : (3))	Number	7.00		
		.04 Replace instructions on extinguishers (Number of times over 3 years : (3))	Number	2.00		
		.05 Replace wall-mounting polished hard wood backboard and bracket (Number of times over 3 years : (3))	Number	3.00		
	<b>7.1.3</b>	<b>MAINTENANCE OF CONVENTIONAL FIRE FIGHTING EQUIPMENT AT WAVERLY LAND PORT OF ENTRY</b>				
	<b>0.2</b>	<b>Mandatory periodical services not included in preventative maintenance Items listed above:</b>				
		.01 Statutory annual servicing of DCP and CO2 fire extinguishers. (Number of times over 3 years : (3))	Number	17.00		
		.02 Fire Fighting Training (Number of times over 3 years : (3))	Sum	1.00		
	Carried forward					

**SCHEDULE NO 8.7: INSTALLATION MM7 - WAVELY CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**
**WAVELY  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>GENERAL INFORMATION LOGGING AND RECORDING FOR WAVELY LAND PORT OF ENTRY</b>  <b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>  .01 Conventional fire fighting equipment (Number of times over 3 years : (3))  <b>Update all as build information and locations of assets</b>  .01 Labeling of all conventional fire fighting equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Sum	1.00		
		<b>7.5.6 Payment reduction:</b>  7.5.6.1 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
		7.5.6.2 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
		7.5.6.3 Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
		7.5.6.4 Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.7: INSTALLATION MM7 - WAVELY CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.8: INSTALLATION MM8 - JOSEFDAL CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**

						<b>JOSEFDAL MECHANICAL MAINTENANCE WORK</b>
<b>BILL PAGE</b>	<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<b>7.1.1</b>	<b>MAINTENANCE OF CONVENTIONAL FIRE FIGHTING EQUIPMENT AT JOSEFDAL LAND PORT OF ENTRY</b>				
	<b>0.1</b>	<b>Servicing, cleaning, recharging and repair of fire extinguishers:</b>				
		<b>01 General serving of fire extinguishers</b>				
		.01 Check, service and repair activation mechanism (Number of times over 3 years : (3))	Number	7.00		
		.02 Recharge discharge cylinder 9kg DCP (Number of times over 3 years : (3))	Number	7.00		
		.03 Reseal discharge mechanism (Number of times over 3 years : (3))	Number	7.00		
		.04 Replace instructions on extinguishers (Number of times over 3 years : (3))	Number	2.00		
		.05 Replace wall-mounting polished hard wood backboard and bracket (Number of times over 3 years : (3))	Number	3.00		
	<b>0.2</b>	<b>Mandatory periodical services not included in preventative maintenance items listed above:</b>				
		.01 Statutory annual servicing of DCP and CO2 fire extinguishers: (Number of times over 3 years : (3))	Number	17.00		
		.02 Fire Fighting Training (Number of times over 3 years : (3))	Sum	1.00		
	Carried forward					

**SCHEDULE NO 8.8: INSTALLATION MM8 - JOSEFDAL CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK**
**JOSEFDAL  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>GENERAL INFORMATION LOGGING AND RECORDING FOR JOSEFDAL LAND PORT OF ENTRY</b>  <b>Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.: as per technical specification</b>  .01 Conventional fire fighting equipment (Number of times over 3 years : (3))  <b>Update all as build information and locations of assets</b>  .01 Labeling of all conventional fire fighting equipment with identifying tags and recording of details (Number of times over 3 years : (3))	Sum	1.00		
	0.5	<b>Payment reduction:</b>				
	0.5.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	0.5.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	0.5.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	0.5.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.8: INSTALLATION MM8 - JOSEFDAL CONVENTIONAL FIRE FIGHTING EQUIPMENT - RELATED MAINTENANCE WORK - CARRIED TO SUMMARY</b>				

DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

TENDER NO. H24/019 AI

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 8.9: INSTALATION MM9: - OSHOEK INCINERATOR SYSTEMS: - RELATED MAINTENANCE WORK****OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	7.4.8	<b>MAINTENANCE OF INCINERATOR AT OSHOEK PORT OF ENTRY</b>				
		<b>.01 GENERAL MAINTENANCE</b>				
		.01 Clean incinerator casing, interior and exterior including bracings, refractories and doors (Number of times over 3 years : (9))	Number	6.00		
		.02 Clean out grit collector of soil, ducts and foreign matter(Number of times over 3 years : (9))	Number	6.00		
		.03 Clear and free sliding rails(Number of times over 3 years : (9))	Number	1.00		
		.04 Clean chimney stack(Number of times over 3 years : (9))	Number	1.00		
		.05 Repainting chimney stack with 400 Deg C resistant paint(Number of times over 3 years : (3))	Number	1.00		
		.06 Inspect, service and test draught control equipment(Number of times over 3 years : (9))	Number	1.00		
		.07 Inspect and service primary and secondary burner for 250LA(Number of times over 3 years : (3))	Number	2.00		
	Carried forward					

**SCHEDULE NO 8.9: INSTALATION MM9: - OSHOEK INCINERATOR SYSTEMS: - RELATED MAINTENANCE WORK**
**OSHOEK  
MECHANICAL  
MAINTENANCE WORK**

BILL PAGE	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
		<b>.02 DIESEL SUPPLY AND DIESEL TANK MAINTENANCE</b>				
		.01 Check and repair fuel filter and fuel gauge(Number of times over 3 years : (3))	Number	1.00		
		.02 Check and repair diesel fuel supply line(Number of times over 3 years : (3))	Number	1.00		
		.03 Supply and install diesel fuel(Number of times over 3 years : (36))	Litres	100.00		
	<b>0.5</b>	<b>Payment reduction:</b>				
	0.5.1	Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown.	Days	1	R -2,000.00	Rate Only
	0.5.2	Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	Days	7	R -500.00	Rate Only
	0.5.3	Payment reduction due to exceeding of maximum allowable down-time during operational damage repair work	Days	7	R -500.00	Rate Only
	0.5.4	Payment reduction due to exceeding of maximum allowable down-time during operational fatal breakdown.	Hours	7	R -1,000.00	Rate Only
	<b>TOTAL</b>	<b>SCHEDULE NO 8.9: INSTALATION MM9: - OSHOEK INCINERATOR SYSTEMS: - RELATED MAINTENANCE WORK- CARRIED TO SUMMARY</b>				





OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**

OSHOEK, NERSTON, WAVELEY AND JOSEFDAL 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)

<b>Project title:</b>	<b><i>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>H24/019 AI</i>	<b>Reference no:</b>	<i>H24/019 AI</i>

### C3. Scope of Works

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#### C3.1 STANDARD SPECIFICATIONS

#### C3.2 PROJECT SPECIFICATIONS

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- PS-3 DETAILS OF CONTRACT
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## B: AMENDMENTS TO THE PARTICULAR SPECIFICATIONS

Variations and additions to the following SANS 1200 Standardised Specifications:

SANS 1200 A	:	General
SANS 1200 AB	:	Engineer's office

### C3.3 PARTICULAR SPECIFICATIONS

#### A: 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
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
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
EF	Sludge treatment and disposal
EG	Septic tank and conservancy tanks and disposal fields
EJ	Water quality testing
EK	Valves and sluice gates for water treatment plants
EM	Operation of waste water works
FD	Heating ventilation and air-conditioning systems
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

#### B: PARTICULAR SPECIFICATIONS

PAA	Plumbing and drainage installations
PFD	Heating Ventilation and Air-conditioning systems
PJC	Conventional Fire Fighting Equipment

#### CE: ADDITIONAL SPECIFICATIONS

SA	General Maintenance
SB	Operating and Maintenance Manuals

SC	General decommissioning, testing and commissioning procedures
SD	General Training
SF	General Operation
SH	HIV / AIDS requirements (PW1544)
SI	Occupational Health and Safety
SN	Implementation of Labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP)
SL	Employment and training of youth worker on the expanded public works programme (EPWP) infrastructure projects: national youth service (NYS).

### 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:

##### **OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 in clause PS3 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.

Labour intensive practices under the Expanded Public Works Programme (EPWP) shall be implemented to a value of not less than 10% of the tendered Contract amount for wages paid to local labour.

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

OSHOEK, NERSTON, WAVELYAND JOSEFDAL Land Ports of Entry is the property of the Department of Public Works. The location of the sites are described below:

OSHOEK Land Ports of Entry is situated on the border between South Africa and Swaziland. The Port of Entry is approximately 66 km from Badplaas.

NERSTON Land Ports of Entry is situated on the border between South Africa and Swaziland. The Port of Entry is approximately 125 km from Badplaas.

WAVELY Land Ports of Entry is situated on the border between South Africa and Swaziland. The Port of Entry is approximately 76 km from Badplaas.

JOSEFDAL Land Ports of Entry is situated on the border between South Africa and Swaziland. The Port of Entry is approximately 108 km from Badplaas.

The contractor will be granted access to all the installations that need to be repaired and maintained at the date of site handover. Access will be given to completed installations that were kept in a working condition during a previous similar Contract.

#### 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 Land Ports of Entry form part of the new Repair and Maintenance Programme.
2. The full Maintenance from the inception of the Contract on all facilities, buildings, installations, infrastructure and equipment regardless of any other repair related works that may occur during the Contract Period.

3. No distinction will be made between prior to practical completion and completed installations for the purpose of maintenance.
4. 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. The Contractor must submit a written report of these items within 28 days of the date of site hand over. Failing to submit the report **within the allowed time will render any and all defective items part of the Contractor's maintenance responsibility as set out in the relevant Technical and Particular Specifications.**
5. 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.

6. 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.
7. 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
8. The description of the Works given below is not necessarily complete and shall not limit the work to be carried out by the Contractor under this Contract. Work measured in the bills of quantities serves as a guide on work expected to be done. **Work will only be executed upon a site instruction issued by the consultants.**

### PS 3.1 GENERAL ITEMS

- Compile and supply a complete site plan of Oshoek, Nerston, Wavely and Josefdaal Land ports of Entry Operational and Residential Areas
- Compliance with the Occupational Health and Safety Act and Construction Regulations 2014 and monthly audits.
- Updating of existing Land Ports of Entry Key Plans
- 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)
- BMA 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 3.1.1 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 firefighting training and a fire plan for each of the service buildings).
- Water Treatment Works (Servicing of pumps, supply of chemicals, filters and silica sand and ensure maintenance of all valves, filters, sand filters, electrical equipment, pumps and motors).
- Waste Water Treatment Works ( Service Huber Inlet, Service all Valves and flow measuring devices, replace drying bed sand, cut reed beds, etc.)

**PS 3.1.2 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 Storm water Drainage
- External lighting and Standby Power
- Heating, Ventilation and Air-Conditioning Systems
- Fire Fighting Equipment
- Sewer and Water Treatment Plants

**PS 3.2 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.
- Maintain and operate water purification plant to produce potable water in accordance with Blue Drop Specification.
- 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.
- Sample wastewater effluent and chemical analyses to be provided by an accredited laboratory on a monthly basis – operate wastewater inlet works in accordance with Green Drop Specification.
- 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.
- Water and waste water quality tests.
- 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 3.3 DEPARTMENT OF WATER AND SANITATION 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 OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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 OSHOEK, NERSTON, WAVELY AND JOSEFDAL Land Ports of Entry, and submission to the client in a format similar to the Department of Water Affairs incentive based regulation programmes

### **PS 3.4 ROUTINE MAINTENANCE WORK**

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.

Details of the required routine- and preventative maintenance are given in the relevant technical specifications and in Additional Specification SA: General Maintenance.

### **PS 4 CONSTRUCTION AND MANAGEMENT REQUIREMENTS**

The Contractor shall be responsible for minor construction works as part of the corrective maintenance, as set out in the Bill of Quantities and as per relevant specification. The Contractor shall be responsible for all management to do work as indicated in SANS 1200 A.

### **PS 5 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: 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 6 SITE FACILITIES AVAILABLE**

### **PS 6.1 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 6.2 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 Sub clause 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 6.3 PARKING FACILITIES**

Parking facilities are available on site.

## **PS 7 SITE FACILITIES REQUIRED FOR THE ENGINEER**

### **PS 7.1 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 7.2 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 Sub clause 3.2 of SABS 1200 AB. The Contractor shall maintain the offices in accordance with the requirements of Sub clause 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 7.3 CARPORTS**

The Contractor shall provide on Site 1 carport for the exclusive use of the Engineer, in accordance with requirements of Sub clause PSAB 3.3 of the Project Specifications.

## **PS 7.4 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 7.5 TELEPHONE AND COMPUTER FACILITIES**

The Contractor shall, in accordance with the requirements of Sub clause 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 cell phone. 'Roaming' shall be activated on the cellular telephone as local cellular network reception is not available at all sites.

## **PS 7.7 CALL CENTRE**

A call centre has been established by the Employer to log, route and monitor incoming breakdown calls.

The call centre is administered centrally and is responsible for the routing of breakdown calls on The Contractor shall be responsible for the fixed and variable call costs incurred by the call centre for a relevant contract. The Contractor shall be re-reimbursed from an amount included in the Bill of Quantities, on written instruction of the Engineer. Operating costs of the call centre will be calculated, based on the number of breakdowns logged per contract, and invoiced on a monthly basis.

The Contractor is entitled to a percentage of the value of each payment in relation to the call centre to cover his expenses in this regard (see payment item PSA 8.9).

## **PS 8 REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC**

Requirements for the accommodation of traffic shall be in accordance with Clause 8.1. of the GCC (2015). Where road surfaces and other components of roads are repaired, the Contractor shall plan his work in such a way that existing traffic volumes are accommodated on the same road until work is complete. No service roads shall be constructed for purposes of accommodation of traffic during corrective maintenance,

## **PS 9 OCCUPATIONAL HEALTH AND SAFETY**

The Contractor shall be required to comply with the Occupational Health and Safety Act 85 of 1993, Construction Regulations 2014 and related regulations. 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 (sub clause 5(1) (b)) of the regulations will be issued separately.

The Contractor shall in terms of sub clause 7(1) (a) 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 noncompliance 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 Occupational Health and Safety Act 85 of 1993, Construction Regulations 2014 and related regulations, as stated above.

Access to the Works will be given after OHS Plan is approved.

## **PS 10 ADVERSE WEATHER CONDITIONS**

Adverse weather conditions shall be managed in terms of additional Clause 2.2, included in the Contract Data.

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 11 FEATURES REQUIRING SPECIAL ATTENTION**

### **PS 11.1 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 11.2 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 11.3 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 11.4 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 11.5 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 11.6 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 11.7 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 11.8 BORROW PITS**

There will be no designated borrow pits. The Contractor shall utilise the material on Site or import material from commercial sources.

### **PS 11.9 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 11.10 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 12 CERTIFICATES OF PAYMENT**

The statement to be submitted by the Contractor in terms of Clause 6.10.1 of the General Conditions of Contract shall be prepared in accordance with the standard payment certificate prescribed by the Professional Service Provider and shall comprise at least two sets of A4-size paper copies.

The Contractor shall be responsible for payments to all nominated sub-contractors. However, monthly payment certificates to sub-contractors will form part of the main Contractors statements to enable the Professional Service Provider to monitor payments to sub-contractors.

All costs for the preparation and submission of the statements shall be borne by the Contractor.

Monthly report submitted with the statement for payment to the Engineer for compliance to EPWP reporting requirements and CPG reporting requirements. This report shall be submitted in the provided format and electronically (Excel® format) stating the following details for the current month:

- Labour
  - Worker's full name
  - Worker's ID Number
  - Work performed by the worker
  - Rate per hour/day
  - Hours worked
  - Residential address of worker
  - Total paid for month to labour, suppliers and subcontractors
- Local Suppliers
  - Supplier's full name
  - Supplier's company registration certificate
  - Company address
  - Total paid for month to suppliers
  - Copy of invoices and proof of payment for the month
- Local subcontractors
  - Subcontractor's full name
  - Subcontractor's company registration certificate
  - Company address
  - Total paid for month to Subcontractor
  - Copy of invoices and proof of payment for the month

## **PS 13 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 14 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 15 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 (sub clause 4(1)) of the regulations will be issued separately.

The Contractor shall in terms of sub clause 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 16 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 17 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 5.5.1 of Part 1 of the Contract Data. The time for completion will start on the date of access to an installation.



## **PS 18 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 19 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 20 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 Sub clause 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 Subclasses 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 Sub clause PSA 8.1.2.2. Payment will be made as described in Sub clause 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) OSHOEK, NERSTON, WAVELYAND JOSEFDAL Land Ports of Entry

The bid sums shall include full compensation for all time-related preliminary and general charges as described in Sub clause PSA 8.1.2.2. Payment will be made as described in Sub clause 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 Sub clause 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 **Gert Sibande 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 **15% (Fifteen 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 **15% (Fifteen Percent)** of the total value of materials purchased excluding VAT to be sourced from within **200km** radius of the project site.

Failure to achieve the minimum **15% (Fifteen 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 **Gert Sibande District Municipality**, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications,
- (b) The none 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 **15% (Fifteen 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 **15% (Fifteen Percent)** of the total value of materials purchased excluding VAT to be sourced from within **200km** of the project site.

Failure to achieve the minimum **15% (Fifteen 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 **Mpumalanga 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

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) 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 **10% (Ten 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 **10% (Ten 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 *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
- storm water 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 be collected, loaded, off loaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

#### **Manufactured Elements**

Elements manufactured or supplied by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. Where the mass of an element exceeds 55 kg, consideration should be given to the size of the element relative to its total mass related to the number of workers who would be needed to lift such mass

### **C3.8 Submission of Accrual Reports**

The Contractor shall submit accrual reports to the client representative at the end of March and September each year for the duration of the Service Contract period from the date of appointment up to and including project closeout. This is to ensure that PMTE complies with the accounting framework GRAP, which requires that PMTE disclose all its accruals as at the end of each reporting date.

### **C.3.9 Submission of Monthly Local Material Utilisation Report (Local Content)**

The contractors shall be responsible for record keeping, documenting and submission of monthly local material utilization report with supporting documentation to the Employer's representative within 7 working days of the beginning of the successive month, in terms of DTI&C designated industry/sector/sub-sector schedule as per the PA36 and Annexures C attached to the tender document. The final percentage achievement to be reconciled upon completion of the project and form part of the final account.

Failure by the contractors to achieve the specified percentage of local content per designated industry/sector/sub-sector as listed will result in a thirty percent thirty percent (30%) penalty of the value not achieved, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control. Allowance must be made for submitting monthly reports illustrating the value of local material utilisation report.

## Examples of calculating CPGs and related penalties

CPGs values are based on the Tender Amount at the time of the award. Determining the actual values is based either on the Tender Amount including allowances and Vat or the Tender Amount at the time of award excluding allowances and VAT, where Allowances include the following:

- Provisional amounts
- CPG allowances
- Nominated and/or selected subcontractors
- Contract price adjustment (Not provided for within the B of Q by NDPWI)
- Contingency amounts (Not provided for within the B of Q by NDPWI)

**CPG values in the CPG Bill of Quantities Section will be recalculated based on the “Tender Amount” or the “Contract Amount” which ever applicable and the provisional amounts adjusted accordingly. Sanctions (penalties) are applicable to all CPGs where the contractor fails to achieve the minimum specified requirements, unless the contractor can prove to the Employer’s satisfaction that the non-achievement was beyond his/her control. No penalties will be applied should the CPG value, based on the original “Tender Amount” or the “Contract Amount”, has been achieved.**

### 1.1 Targeted Local Building Material Manufacturers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

#### CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG to be achieved = 5% as specified in the Scope of Works (PG01.1)

CPG target value = R130 Mil x 5% = R 6, 5 Mil (Value of material to be purchased from local manufacturers, excluding VAT)

#### Calculation of penalty:

Percentage penalty applicable = 10% as specified in the Scope of Works (PG01.1)

CPG target value = R6, 5 Mil excluding VAT

CPG Achieved = R5, 5 Mil (R1 Mil shortfall) excluding VAT

Penalty = R1 Mil x 10% = R100 000 excluding VAT

### 1.2 Targeted Local Building Material Suppliers CPG

When applicable, the CPG is expressed as a percentage of the “Contract Amount”, i.e. the Tender Amount at the time of award excluding allowances and VAT.

#### CPG calculation example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG to be achieved = 5% as specified in the Scope of Works (PG01.1)

CPG target value = R130 Mil x 5% = R 6, 5 Mil (Value of material to be purchased from local suppliers, excluding VAT)

#### Calculation of penalty:

Percentage penalty applicable = 20% as specified in the Scope of Works (PG01.1)

CPG target value = R6, 5 Mil excluding VAT

CPG Achieved = R5, 5 Mil (R1 Mil shortfall) excluding VAT

Penalty = R1 Mil x 20% = R200 000 excluding VAT

### 1.3 Targeted Local Labour Skills Development CPG

When applicable, the CPG is expressed as a percentage of the total number working days required to complete the Works.

#### CPG calculation example:



“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

Number of working days required to complete the Works based on the construction period = 600 days

CPG percentage participation to be achieved = 30% as specified in the Scope of Works (PG01.1)

Required number of working days training to be provided = 180 days (600 x 30%)

#### Calculation of penalty:

Payment reduction = R 5 000 per day for not providing training as specified in the Scope of Works (PG01.1)

CPG = 600 working days x 30% = 180 working days training to be provided

CPG Achieved = 160 days (20 days shortfall where no training was provided)

Penalty = 20 days x R5 000 payment reduction per day= R100 000 excluding VAT

### **1.4 Cidb BUILD Programme: Enterprise Development**

When applicable, the Enterprise Development CPG expressed as a percentage of the “Contract amount” = Tender amount at the time of award excluding allowances and VAT. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of an amount specified in the Scope of Works (PG01.1) per working day where training was not provided.

The monetary value of training to be provided is stipulated in the CPG BoQ section. The number of beneficiaries to be trained is dependent on the “Contract Amount” as well the number of beneficiaries appointed which will generally resort under the Grade 1 and 2 cidb categories. The provisional amount will therefore be adjusted in terms of the “contract Amount”, the number of beneficiaries to be trained and the actual cost for providing the training.

#### Part 1: Calculation of 5% CPG example:

“Tender Amount” = R150 Mil all inclusive of allowances and VAT

“Contract Amount” = R130 Mil (Tender Amount at the time of award excluding allowances and VAT)

CPG percentage participation to be achieved = 5% as specified in the Scope of Works (PG01.1)

CPG value = R6, 5 Mil (Value of work to be subcontracted to emerging enterprises)

#### Calculation of penalty

Percentage penalty applicable = 30% as specified in the Scope of Works (PG01.1)

CPG Minimum 5% = R6, 5 Mil

Achieved = R5, 5 Mil (Only subcontracted work to the value of R5, 5 Mil, i.e. R1 Mil shortfall)

Penalty = R1 Mil x 30% = R300 000 Excl. VAT

#### Part 2: Calculations in terms of training to be done:

The number of enterprises to be developed is subject to the contract amount and the apportionment of the work as per Example 1 below.

Number of enterprises to be trained = 6 x 1 GB subcontractors

Total cost for training = R 1 660 000

#### Calculation of penalty

Total number of enterprises to be trained = 6

Total number trained = 4 (2 Shortfall)

Training cost per beneficiary = R1 660 000 / 6 = R 276 666, 67 per beneficiary

Penalty = R 276 666, 67 x 2 x 30% = R166 000 Excl. VAT

B of Q Item	Description	Unit	Rate	Quantity	Amount (R)
<b>5</b>	<b>Enterprise Development</b>				
5.1	Enterprise Development of Targeted Enterprise or JV partners				
5.1.1	Appointment of training co-ordinator	Per Quarter	45 000	8	360 000
5.1.2	Appointment of Mentor /Training Service provider	Per Quarter	135 000	8	1 080 000
5.1.3	Needs Analysis and Enterprise Development Plan per Targeted Enterprise	No.	5 000	6	30 000
5.1.4	Monitoring and Interim reporting per targeted enterprise	Per Quarter	20 000	8	160 000
5.1.5	Project Completion report per Targeted Enterprise	No.	5 000	6	30 000
	<b>Provisional Sum to be carried over to CPG bill of quantities</b>				<b>1 660 000</b>

“Contract amount” Tender amount excl. allowances and VAT.

130 000 000

B of Q Item	Description	Unit	Rate	Quantity	Amount (R)
	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

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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**

OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>OSHOEK, NERSTON, WAVELY AND JOSEFDAL 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>H24/019 AI</i>	<b>WCS no:</b>	<i>056394</i>	<b>Reference no:</b> <i>H24/019 AI</i>

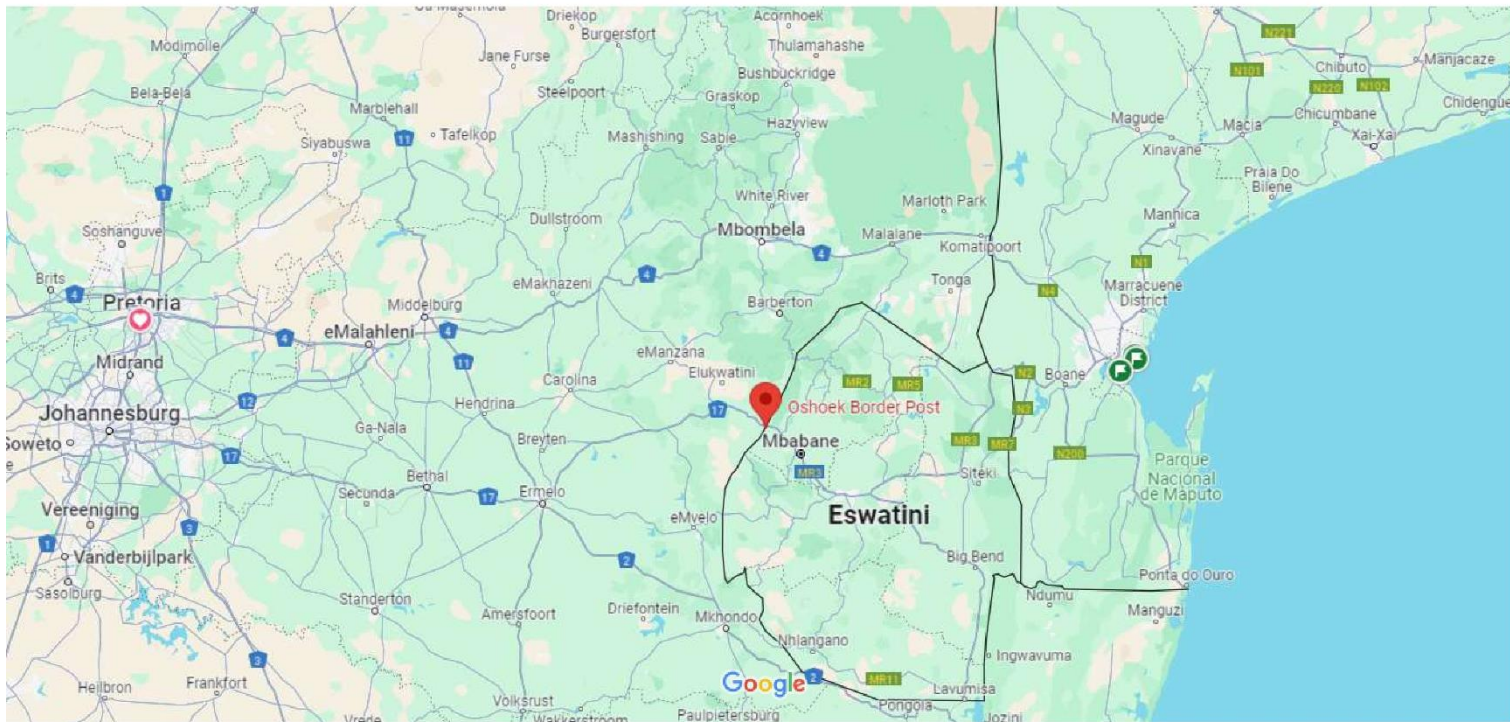
### C4 Site Information

The location of each facility is briefly described below:

#### Oshoek Land Port of Entry:

Oshoek LPOE is located at the border between South Africa and Swaziland. The closest nearest town is Badplaas which is approximately 66 kilometres away. Oshoek LPOE is operational 24 Hours Monday – Sunday.

Google Maps Oshoek Border Post



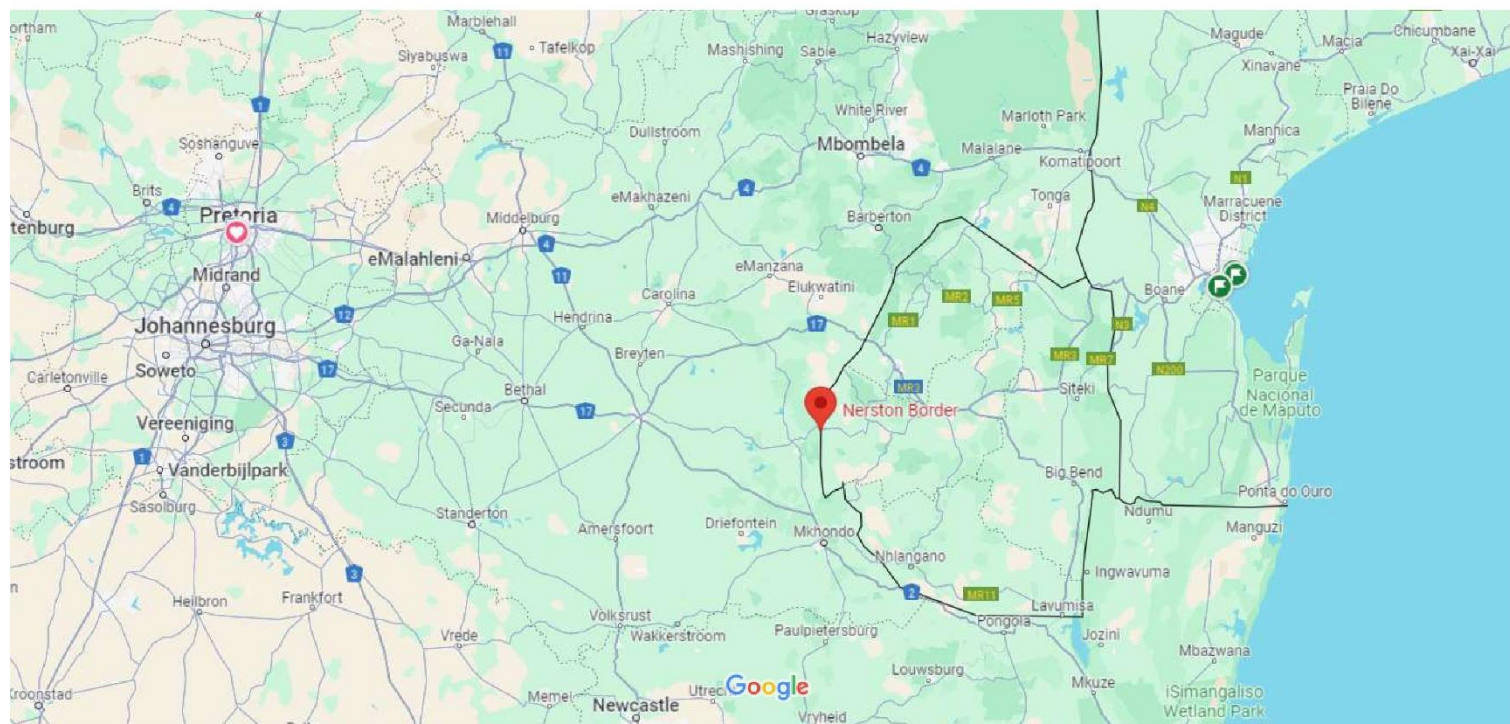
Map data ©2024 AfriGIS (Pty) Ltd, Google 50 km



### Nerston Land Port of Entry:

Nerston LPOE is located at the border between South Africa and Swaziland. The closest nearest town is Badplaas which is approximately 125 kilometres away. The operating hours are 08:00 – 18:00 Monday – Sunday.

Google Maps Nerston Border



Map data ©2024 AfriGIS (Pty) Ltd, Google 50 km

### Wavely Land Port of Entry:

Wavely LPOE is located at the border between South Africa and Swaziland. The closest nearest town is Badplaas which is approximately 76 kilometres away. The operating hours are 08:00 – 16:00 Monday – Sunday.

Google Maps Waverley Border Post



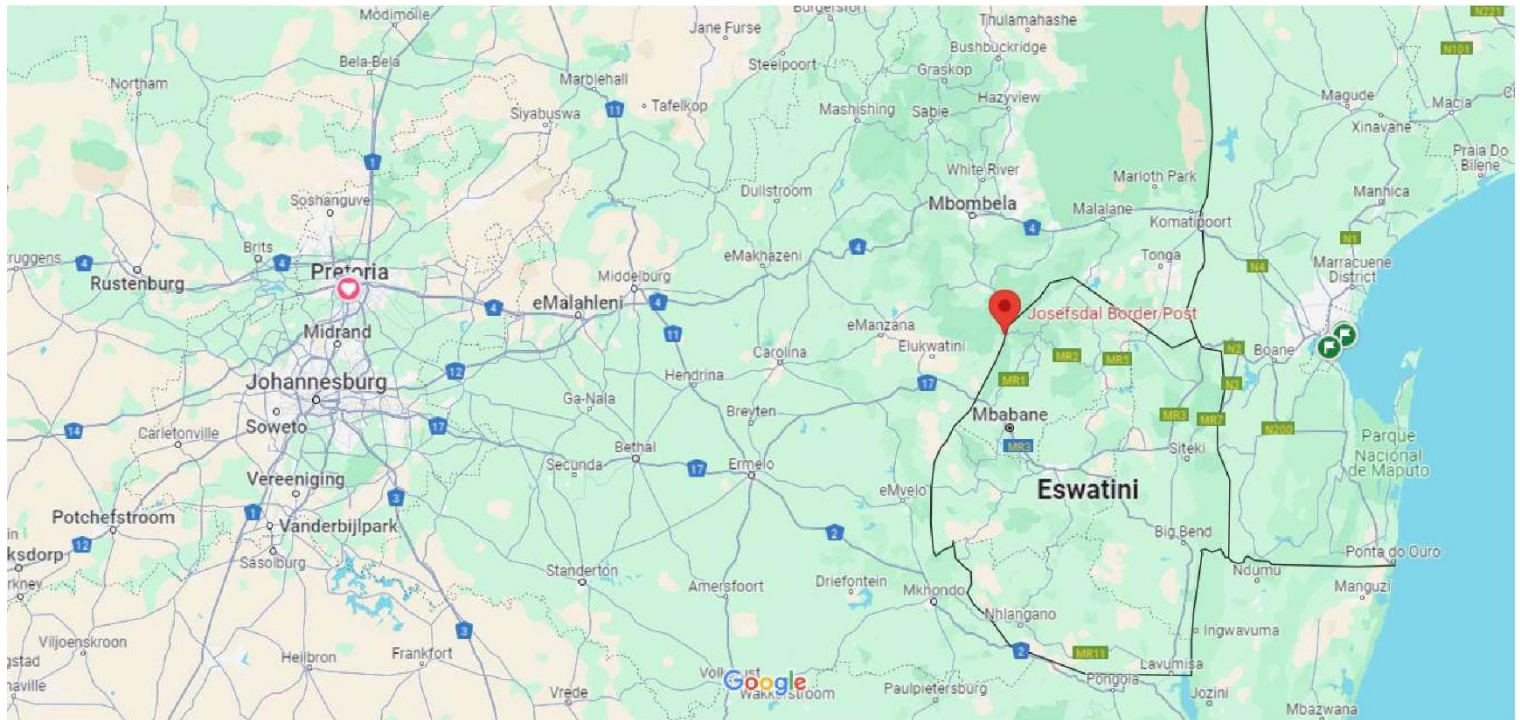
Map data ©2024 AfriGIS (Pty) Ltd, Google 50 km



### Josefsdal Land Port of Entry:

Josefsdal LPOE is located at the border between South Africa and Swaziland. The closest nearest town is Badplaas which is approximately 108 kilometres away. The operating hours are 08:00 – 16:00 Monday – Sunday.

Google Maps Josefsdal Border Post



Map data ©2024 AfriGIS (Pty) Ltd, Google 50 km

OSHOEK, NERSTON, WAVELEY AND JOSEFDAL LAND PORTS OF ENTRY: 36 MONTHS  
INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL,  
ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## **C4.2 SITE LAYOUTS**

OSHOEK, NERSTON, WAVELY AND JOSEFDAL LAND PORTS OF ENTRY: 36 MONTHS  
INFRASTRUCTURE MAINTENANCE AND REPAIRS OF BUILDINGS, CIVIL, MECHANICAL,  
ELECTRICAL AND INSTALLATIONS (APPOINTMENT OF A CONTRACTOR)

## **LIST OF SITE LAYOUTS**