



Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

NATIONAL DEPARTMENT OF PUBLIC WORKS

VOLUME 1

TENDERING PROCEDURES, RETURNABLE DOCUMENTS, AGREEMENT AND CONTRACT DATA, SCOPE OF WORK AND SITE INFORMATION

LAND PORTS OF ENTRY: MAHAMBA, EMAHLATHINI AND BOTHASHOOP: APPOINTMENT OF A SERVICE PROVIDER/S FOR THE MAINTENANCE AND REPAIRS OF BUILDING, CIVIL, MECHANICAL, ELECTRICAL INFRASTRUCTURE AND INSTALLATIONS AT THE THREE (03) PORTS OF ENTRY FOR A PERIOD OF 36 MONTHS

TENDER NO: H21/006 AI

CLOSING DATE: 9 JULY 2021

ISSUED BY:

DEPARTMENT OF PUBLIC WORKS

CENTRAL GOVERNMENT OFFICES

C/O BOSMAN & MADIBA STREETS

PRETORIA

0001

.....

Tenderer Name:



NATIONAL DEPARTMENT OF PUBLIC WORKS

LAND PORTS OF ENTRY: MAHAMBA, EMAHLATHINI AND BOTHASHOOP: APPOINTMENT OF A SERVICE PROVIDER/S FOR THE MAINTENANCE AND REPAIRS OF BUILDING, CIVIL, MECHANICAL, ELECTRICAL INFRASTRUCTURE AND INSTALLATIONS AT THE THREE (03) PORTS OF ENTRY FOR A PERIOD OF 36 MONTHS

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PART T1: TENDERING PROCEDURES

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

THE DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE INVITES TENDERS FOR:

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months
Reference no:	

Tender no:	H21/006 AI		
Advertising date:	18 June 2021	Closing date:	09 July 2021
Closing time:	11: 00 AM	Validity period:	56 days

It is estimated that tenderers should have a CIDB contractor grading designation of **7CE** or **7GB*** 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 *select tender value rangeselect class of construction worksPEor*

select tender value range select class of construction worksPE* or higher.

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

Only tenderers who are responsive to the following responsiveness criteria are eligible to submit tenders. Failure to comply with the criteria stated hereunder shall result in the tender offer being disqualified from further consideration:

onsideration.	
	Only those tenderers who satisfy the eligibility criteria stated in the Tender Data may submit tenders.
	Tender offer must be properly received on the tender closing date and time specified on the invitation, fully completed either electronically (if issued in electronic format), or by writing legibly in non-erasable ink. (All as per Standard Conditions of Tender).
\square	All parts of tender documents submitted must be fully completed and signed where required.
\square	Submission of (DPW-07 EC): Form of Offer and Acceptance.
	Submission of (PA-11): Declaration of Interest and Tenderer's Past Supply Chain Management Practices.
	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.
\boxtimes	Submission of (PA-29): Certificate of Independent Bid Determination.
	The tenderer will be required to submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts) together with his tender.
	Submission of (DPW-16 EC): Site Inspection Meeting Certificate as proof of attendance of compulsory site inspection meeting. Tenderers should familiarise themselves with the site.
\boxtimes	Use of correction fluid is prohibited.
	Registration on National Treasury's Central Supplier Database (CSD).
	Compliance with Pre-qualification criteria for Preferential Procurement as indicated below.
	Submission of proof of registration on National Treasury's Central Supplier Database (CSD) for all sub-contractors for 30% compulsory sub-contracting (attach CSD print out).



	Submission of PA 36 and Annexure C as proof of Compliance to Local Production and Content requirements.
\boxtimes	Submission of (DPW-09EC): Particulars of Tenderer's Projects.
	 Sworn Affidavit for the Full-Time employment of Work Force for the duration of this project. (As indicated in Functionality Criteria 4) EPWP Declaration: Fully complete and sign EPWP Programme Declaration to ensure compliance Submission, duly signed and fully completed (PA36 including Annexure C) Declaration Certificate for Local Production and Content of Designated Sector
	For sub-contracting: 1) Provide proof of registration on National Treasury Central Supplier Database for all subcontractors listed DPW-15 EC and in DPW-22 EC (Attach National Treasury Central Supplier Database Registration Printout

Tenderer must comply with the Pre-qualification criteria for Preferential Procurement listed below

A tenderer having stipulated minimum B-BBEE status level of contributor:
An EME or QSE
A tenderer subcontracting a minimum of 30% to: An EME or QSE which is at least 51% owned by black people An EME or QSE which is at least 51% owned by black people who are youth An EME or QSE which is at least 51% owned by black people who are women An EME or QSE which is at least 51% owned by black people with disabilities An EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships A co-operative which is at least 51% owned by black people An EME or QSE which is at least 51% owned by black people An EME or QSE which is at least 51% owned by black people An EME or QSE which is at least 51% owned by black people An EME or QSE which is at least 51% owned by black people

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

80/20 Preference points scoring system	90/10 Preference points scoring system	
In	5,00011	scoring system

In case where below/above R 50 000 000 is selected, the lowest acceptable tender will be used to determine the applicable preference point system. (To be used in instances where the estimate cannot be reasonably determined or when one is unsure as to what the market price may be).

Note: Functionality will be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.

Minimum functionality score to qualify for further evaluation:	50
Functionality criteria:	Weighting factor:

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer" Page 2 of 5 For Internal & External Use Effective date: July 2020 Version: 3.6



1. FINANCIAL CAPABILITY	
The service provider to submit adequate financial resources. Original letter from the bank not older than 3 months(Certify document if it's a copy)	
Credit Rating of A = 5 Credit Rating of B = 4 Credit Rating of C = 3 Credit Rating of D = 2 Credit Rating of E =1 No or incorrect information submitted = 0	20
2. PROOF OF EQUIPMENT	
The Service provider to provide evidence of plant, utility vehicles, machinery and instrumentation owned or to be hired/rented in order to be able to carry out the project	
Service provider to complete and sign the annexure A for the plant, utility vehicles, machinery and instrumentation available.	
Submit proof of plant and utility vehicles owned or to be hired/rented from suppliers (Copies of Vehicle Registration or agreement between bidder and supplier for rentals)	
Submit proof of Equipment and Hand Tools owned or to be hired/rented from suppliers (You're required to submit your firms asset register for Equipment and hand tools owned or agreement between bidder and supplier for rentals)	25
 a) Instrumentation for testing of drinking water b) Instrumentation for testing of waste water c) Utility Vehicles d) Machinery e) Hand Tools 	
Points	
 All Five of the above included : 5 Points Four of the above included: 4 Points Three of the above included: 3 Points Two of the above included: 2 Points One of the above included: 1 Points No information provided: 0 Points 	



3. RELEVANT EXPERIENCE (REPAIR & MAINTENANCE TYPE PROJECTS)	
The service provider to provide list of comparative projects with contactable references for projects similar in nature currently engaged in and or completed during the past 5 years.	
Projects to be listed in DPW-09 (EC)	
Service Provider to provide Letters of Appointment and Completion certificates of such projects.	
Points:	25
5 projects or more = 5 4 projects = 4 3 projects = 3 2 projects = 2 1 project = 1 No documentation submitted = 0	
Letters of appointment and/or Completion certificates of such projects should be attached for points to be awarded 4. WORK FORCE	
The Service Provider to provide proof of proposed Work Force that will be Full-Time employed for the duration of this project.	×
The Proposal to include the following required Personnel: (i) Site Agent/Foreman, (ii) Plumber, (iii) Electricians, (iv) Air-Conditioner Technician, all whom will be involved on this specific project.	
NB: Bidder must submit a sworn affidavit that these or similar qualified personnel will be employed after the award of the Tender and for the full duration of the project.	
NB: If any of the above services are to be sub-contracted, the bidder must attach the CSD report of the sub-contractor and should indicate details of the sub-contractor on the DPW-15 (EC) form	
 Service Provider to provide the following: 1) Company Organogram indicating all Key Personnel to be involved on this project 2) CV of each Key Personnel to be involved on this project 3) Copies of Relevant Qualification in the Built Environment of each Key Personnel to be involved on this project 4) Copies of Trade Test certificates for Plumber, Electricians, and Air-Conditioner Technician 5) Copies of ID's of Each Key Personnel to be involved on this project. 	30
Points: 1) All Five of the above included : 5 Points 2) Four of the above included: 4 Points 3) Three of the above included: 3 Points 4) Two of the above included: 2 Points 5) One of the above included: 1 Points 6) No information provided: 0 Poin	
Total	100 Points

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: July 2020 Version: 3.6



Collection of tender documents

Bid documents are available for free download on e-Tender portal www.etenders.gov.za

Alternatively; Bid documents may be collected during working hours at the following address 256 Madiba Street. A non-refundable bid deposit of R 700 is payable (cash only) on collection of the bid documents.

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 are:Venue:Mahamba Border postDate:02 July 2021

Starting time: 11:00

nquiries related to tender documents may be addressed to:

DPW Project Manager:	Lulamile Mashaba	Telephone no:	015 293 8045
Cell no:	081 274 6863	Fax no:	N/A
E-mail:	Lulamile.mashaba@dp	w.gov.za	1

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).

Tender documents may be posted to:		Deposited in the tender box at:
The Director-General Department of Public Works and Infrastructure Private Bag X65 Pretoria 0001	OR	256 Madiba Street Central Government Offices Madiba Street Pretoria Central Room 121
Attention: Procurement section: Room room no 121		

Compiled by:

Lulamile Mashaba	- Hash	2021/06/17
Name of Project Manager	Signature	Date



DPW-03 (EC): TENDER DATA

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months
Reference no:	

Tender no:	H21/006 AI	Closing date:	09 July 2021
Closing time:	11:00 AM	Validity period:	56 days

Clause	
number:	
	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 www.cidb.org.za).
	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.
	Each item of data given below is cross-referenced to the clause marked "C" in the above mentioned Standard Conditions of Tender.
C.1.1	The employer is the Government of the Republic of South Africa in its Department of Public Works and Infrastructure.
C.1.2	For this contract the three volume approach is adopted.
	This procurement document has been formatted and compiled under the headings as contained in the CIDB's "Standard for Uniformity in Construction Procurement."
	The three volume procurement document issued by the employer comprises the following:
	Volume 1: Tendering procedures T1.1 - Notice and invitation to tender (PA-04 EC) T1.2 - Tender data (DPW-03 EC)
	Volume 2: Returnable documents T2.1 - List of returnable documents (PA-09 EC) C1.1 - Form of offer and acceptance (DPW-07 EC) C2.2 - Bills of Quantities / Lump sum document (if a returnable document) T2.2 - Returnable schedules
	Volume 3: Contract Part C1: Agreement and contract data C1.2 - Contract data (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)
	Part C2: Pricing data C2.1 - Pricing instructions (PG-02.2 EC or PG-02.1EC) C2.2 - Bills of Quantities / Lump sum document (if not a returnable document)
	Part C3: Scope of work C3 - Scope of work (PG-01.2 EC or PG-01.1EC)
	Part C4: Site information C4 - Site information (PG-03.2 EC or PG03.1EC)



Tender no:

	-			
C.1.4	The Employer's ager	nt is:		
	Name:	ETL Consulting (Pty) Ltd		
	Capacity:	Private Project Manager		
	Address:	The Oval Office Park		
	Tel: 010 800 1534			
	Fax:	086 540 6795		
	E-mail:	mosesm@etlconsulting.co.za		
C.2.1 C.3.11	A. <u>ELIGIBILITY</u>	IN RESPECT OF CIDB REGISTRATION:		
0.3.11	 A. <u>ELIGIBILITY IN RESPECT OF CIDB REGISTRATION:</u> 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, with this tender, acceptable documentary proof thereof): 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 <i>CE</i> or <i>CE**</i> class of construction work; and 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 Joint ventures are eligible to submit tenders provided that: every member of the joint venture is registered with the CIDB; the lead partner has a 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 <i>CE</i> or <i>CE**</i> class of construction work:			
	B. INDICATE THE	FUNCTIONALITY WEIGHTING APPLICABLE TO THIS	<u>S BID:</u>	
	<u>Note</u>: Functionality will only be applied as a prequalification criterion. Such criteria are used to establish minimum requirements where after bids will be evaluated solely on the basis of price and preference.			
	Functionality C	riteria	Weighting Factor	
		ovider to submit adequate financial resources. rom the bank not older than 3 months(Certify	20	
	Credit Rating of Credit Rating of Credit Rating of	f B = 4		



	ala. DPW-03 (EC)
Credit Rating of D = 2 Credit Rating of E =1	
No or incorrect information submitted = 0 2. PROOF OF EQUIPMENT	
The Service provider to provide evidence of plant, utility vehicles, machinery and instrumentation owned or to be hired/rented in order to be able to carry out the project.	
Service provider to complete and sign the annexure A for the plant, utility vehicles, machinery and instrumentation available.	25
Submit proof of plant and utility vehicles owned or to be hired/rented from suppliers (Copies of Vehicle Registration or agreement between bidder and supplier for rentals).	
Submit proof of Equipment and Hand Tools owned or to be hired/rented from suppliers (You're required to submit your firms asset register for Equipment and hand tools owned or agreement between bidder and supplier for rentals).	
 a) Instrumentation for testing of drinking water b) Instrumentation for testing of waste water c) Utility Vehicles d) Machinery 	
e) Hand Tools	
Points	
 All Five of the above included : 5 Points Four of the above included: 4 Points Three of the above included: 3 Points Two of the above included: 2 Points One of the above included: 1 Points No information provided: 0 Points 	
3. RELEVANT EXPERIENCE (REPAIR & MAINTENANCE TYPE PROJECTS)	
The service provider to provide list of comparative projects with contactable references for projects similar in nature currently engaged in and or completed during the past 5 years.	
Projects to be listed in DPW-09 (EC).	
Service Provider to provide Letters of Appointment and Completion certificates of such projects.	25
Points:	
5 projects or more = 5 4 projects = 4 3 projects = 3 2 projects = 2 1 project= 1 No documentation submitted = 0	
Letters of appointment and/or Completion certificates of such projects should be attached for points to be awarded.	



Tender da	ata: DPW-03 (EC)
4. WORK FORCE	
 The Service Provider to provide proof of proposed Work Force that will be Full-Time employed for the duration of this project. The Proposal to include the following required Personnel: (i) Site Agent/Foreman, (ii)Plumber, (iii) Electricians, (iv) Air- Conditioner Technician, all whom will be involved on this specific project. NB: Bidder must submit a sworn affidavit that these or similar qualified personnel will be employed after the award of the Tender and for the full duration of the project. NB: If any of the above services are to be sub-contracted, the bidder must attach the CSD report of the sub-contractor and should indicate details of the sub-contractor on the DPW-15 (EC) form. Service Provider to provide the following: Company Organogram indicating all Key Personnel to be involved on this project CV of each Key Personnel to be involved on this project Copies of Relevant Qualification in the Built Environment of each Key Personnel to be involved on this project Copies of ITade Test certificates for Plumber, Electricians, and Air-Conditioner Technician Copies of ID's of Each Key Personnel to be involved on this project. Points: All Five of the above included : 5 Points Four of the above included: 2 Points There of the above included: 3 Points Three of the above included: 1 Points No information provide: 0 Points 	30
Total (Weightings will be multiplied by the scores allocated during the eva	100 Points luation process to arrive
the total functionality points)	,
Minimum functionality score to qualify for further evaluation:	50%
(Total minimum qualifying score for functionality is 50 Percent). C <u>ELIGIBILITY IN RESPECT OF RISK TO EMPLOYER</u> :	
Provisions applicable to Evaluation Method 1 and 2: Tender offers will be evaluated by an Evaluation Committee based on the criteria listed hereunder. Each criterion carries the same weight / impor	

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 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



Tender data: DPW-03 (EC)

-

	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 Project Manager, failing which the tender offer will <i>mutatis mutandis</i> be declared non-responsive. C.1. Technical risks:
	Quality of current and previous work performed by the Tenderer in the class of construction work stated above as per the evaluation report prepared by the Professional 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).
	 C.1.2 Criterion 2: Contractual commitment Adherence to contractual commitments, demonstrated by the Tenderer in the performance on current and previous work, evaluated in terms of: a) 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; b) the degree to which previous projects have been completed within the contractual completion periods and/or extensions thereto; and c) general contract administration, i.e. compliance with contractual aspects such as laws and regulations, insurances, security, written contract instructions, subcontractors, time delay claims, etc as can generally be expected in standard/normal conditions of contract.
	C.2 Commercial risks:
	The level to which agreement with the Tenderer is reached in respect of the adjustment of rates which are considered to be imbalanced or unreasonable and to eliminate errors or discrepancies, without changing the tendered total price, over and above the correction of arithmetical errors as provided for in C.3.9.
C.2.7	For particulars regarding a pre-tender site inspection meeting, see Notice and Invitation to Tender T1.1
C.2.12	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.
	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.
	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.
	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.
	Alternative tender offer permitted: Yes 🗌 No 🖂
C.2.13.2	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.
C.2.13.5	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.



Publi	artment: Vevids and Infrastructure UBLIC OF SOUTH AFRICA Tender data: DPW-03 (EC)
C.2.13.6 C.3.5	A two-envelope procedure will not be followed.
C.2.15	The closing time for submission of tender offers is as per Notice and Invitation to Tender T1.1.
C.2.16	The tender offer validity period is as per Notice and Invitation to Tender T1.1.
C2.16.3	Omit the wording of the last sentence for those projects which are subject to CPAP
C.2.18	 The tenderer will be required to submit his fully priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts): ☑ Together with his tender; or ☑ Within fourteen (14) calendar days of the date on which he has been requested to do so prior to the award of the contract.
C.2.19	Access shall be provided for inspections, tests and analysis as may be required by the Employer.
C.3.4.1 C.3.4.2	The location for opening of the tender offers, immediately after the closing time thereof shall be at: As per tender advertisement
C.3.8	The words "responsive tender" and "acceptable tender" shall be construed to have the same meaning.
C.3.9.3	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."
C.3.9.4	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:"
C.3.9.4	 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."
C.3.11.1	The procedure for the evaluation of responsive tenders is Method 2: Financial Offer and Preference.
C.3.13	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;
C.3.17	Provide to the successful tenderer one copy of the signed contract document.



PART T2: RETURNABLE DOCUMENTS

TABLE C	ABLE OF CONTENTS Co	
T2.1:	LIST OF RETURNABLE DOCUMENTS	White
T2.2:	RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES	White



List of Returnable Documents: PA-09 (EC)

PA-09 (EC): LIST OF RETURNABLE DOCUMENTS

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months		
Tender / Quote no:	H21/ 006 AI Reference no:		
Receipt Number:			

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
Declaration of Interest and Tenderer's Past Supply Chain Management Practices (PA-11)	4 Pages	Yes
Submission of (PA-29): Certificate of Independent Bid Determination	4 Pages	Yes
Resolution of Board of Directors (PA-15.1) (if applicable)	1 Page	Yes
Resolution of Board of Directors to enter into Consortia or JV's (PA-15.2) <i>(if applicable)</i>	2 Pages	Yes
Special Resolution of Consortia or JV's (PA-15.3) (if applicable)	3 Pages	Yes
Site Inspection Meeting Certificate (DPW-16 EC) (if applicable)	1 Page	Yes
Particulars of Tenderer's Projects (DPW-09 EC)		
Proof of regsitration on Nationals Treasury Central Supplier Databse (CSD) Submission, duly signed and fully completed (PA36 including Annexure C) Declaration Certificate for Local Production and Content of Designated Sector. Signed and completed declaration of designated groups for preferential procurement (PA - 40).		Yes
For sub-contracting: Provide proof of registration on National Treasury Central Supplier Database for all subcontractors listed DPW-15 EC and in DPW-22 EC (Attach National Treasury Central Supplier Database Registration Printout		Yes
Sworn Affidavit for the Full-Time employment of Work Force for the duration of this project.		Yes
EPWP Declaration: Fully complete and sign EPWP Programme Declaration to ensure compliance		

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 F.2.18 of the Standard Conditions of Tender]

	Tender document name	Number of pages issued	Returnable document
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Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". Page 1 of 3 For Internal & External Use Effective date April 2018 Version: 2.5



Any additional information required to complete a risk assessment (if	_	Vos
applicable)	-	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 F.2.18 of the Standard Conditions of Tender]

Tender document name	Number of pages issued	Returnable document
Record of Addenda to tender documents (DPW-21 EC) (if applicable)	1 Page	Yes
Schedule of proposed sub-contractors (DPW-15 EC) (if applicable)	1 Page	Yes
Particulars of Electrical Contractor (DPW-22 EC) (if applicable)	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) (if applicable)	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	□Yes ⊠No
Procurement documents (Complete document inclusive of all parts)	Pages	⊠Yes □No
Technical and Particular Specifications (Book 2 of 2)	Pages	⊠Yes □No
	Pages	□Yes □No
	Pages	□Yes □No

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

Legal Status of Tendering Entity:	Documentation to be submitted with the tender, or which may be required during the tender evaluation:
If the Tendering Entity is:	
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 	 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.



List of Returnable	Documents:	PA-09	(EC)
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	mpanies Act, 2008 (Act 71 2008, as amended)].	
c. A reg cor sha mo cor cor as	profit company duly jistered as a private mpany in which any, or all, ares are held by one or	Copies of documents referred to in a. and/or b. above in respect of all such close corporation(s) and/or company(ies).
-	profit company duly jistered as a public mpany.	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.
See the	non-profit company, orporated in terms of ction 10 and Schedule 1 of Companies Act, 2008 (Act 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 pro	natural person, sole prietor 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 T	Frust	Deed of Trust duly indicating names of the Trustee(s) and Beneficiary (ies) as well as the purpose of the Trust and the mandate of the Trustees.

Signed by the Tenderer

Name of representative	Signature	Date



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

Project title:		e and repairs of buildin	hoop: Appointment of a service g, civil, mechanical, electrical try for a period of 36 months
Tender no:	H21/006 AI	Reference no:	

OFFER

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

MAINTENANCE AND SERVICING OF BUILDINGS, CIVIL, MECHANICAL AND ELETRICAL INFRASTRUCTURE AND INSTALLATIONS FOR A PERIOD OF 36 MONTHS

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 words):	
Rand in figures:	R

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 <u>a firm and final offer</u>.

This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the tender data, whereupon the Tenderer becomes the party named as the Contractor in the conditions of contract identified in the contract data.

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

Company or Close Corporation:		Natural Person or Partnership:	
And: Whose Registration Number is:		Whose Identity Number(s) is/are:	
	OR		
And: Whose Income Tax Reference Number is:		Whose Income Tax Reference Number is/are:	
CSD supplier number:		CSD supplier number:	
AND WHO IS (if applicable):			

Trading under the name and style of:

AND WHO IS:

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

^{*}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" Page 1 of 4



Represented herein, and who is duly authorised to do so, by:	Note:
Mr/Mrs/Ms: In his/her capacity as:	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.

Tender no: h21/006 Al

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) .. \Box

SECURITY OFFERED:

- (a) the Tenderer accepts that in respect of contracts up to R1 million, a payment reduction** of 5% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract
- (b) in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below:

(1) cash deposit of 10 % of the Contract Sum (excluding VAT)	Yes 🗌 No 🗌
(2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT)	Yes 🗌 No 🗌
(3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)	Yes 🗌 No 🗌
(4) cash deposit of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)	Yes 🗌 No 🗌
(5) fixed construction guarantee of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)	Yes 🗌 No 🗌

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

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

Other Contact Details of the Tenderer are:		
Telephone No	Cellular Phone No	
*Any reference to words "Bid" or "Bidder" herein and/or in ar "Tender" or "Tenderer".	ny other documentation shall be construed to have the same meaning as th	ne words
	be construed to have the same meaning as the word "retention" Page	ge 2 of 4



Fax No

Postal address	
Banker	Branch
Registration No of Tenderer at Department of Labour	
CIDB Registration Number:	

Tender no: h21/006 Al

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 1 Agreement and contract data, (which includes this agreement)

- Part 2 Pricing data
- Part 3 Scope of work
- Part 4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

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

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

WITNESSED BY:

Name of witness	Signature	Date

*Any reference to words "Bid" or "Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". **Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention" Page 3 of 4

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



Tender no: H21/006 AI

Schedule of Deviations

1.1.1. Subject:	
Detail:	

1.1.2. Subject:

Detail:

1.1.3. Subject:

Detail:

Detail:

1.1.4. Subject:		
Detail:		
1.1.5. Subject:		
Detail:		
1.1.6. Subject:		

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".

TAX CLEARANCE CERTFICATE REQUIREMENTS

It is a condition of bid that the taxes of the successful bidder <u>must</u> be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

- 1 In order to meet this requirement bidders are required to complete in full the attached form TCC 001 "Application for a Tax Clearance Certificate" and submit it to any SARS branch office nationally. The Tax Clearance Certificate Requirements are also applicable to foreign bidders / individuals who wish to submit bids.
- 2 SARS will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of 1 (one) year from the date of approval.
- 3 The original Tax Clearance Certificate must be submitted together with the bid. Failure to submit the original and valid Tax Clearance Certificate will result in the invalidation of the bid. Certified copies of the Tax Clearance Certificate will not be acceptable.
- 4 In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Clearance Certificate.
- 5 Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website <u>www.sars.gov.za</u>.
- 6 Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website <u>www.efiling.co.za</u>

Jeyrel:\Mdk416-SBD2 tax clearance



TAX CLEARANCE

TCC 001

Application for a Tax Clearance Certificate

Purpose		
Select the applicable option	Tenders	Good standing
If "Good standing", please state the purpose of this application		

Particulars of applicant

Name/Legal name (Initials & Surname or registered name)																		
Trading name (if applicable)																		
ID/Passport no						Co re	mpan gistere	y/Clos ed no	e Cor	р.								
Income Tax ref no										PAYE	ref no	7						
VAT registration no	4									SDL	ref no	L						
Customs code										UIF	ref no	U						
Telephone no	СО	DE		N U	MB	E R		Fax no	С	O D	E		Ν	U	ME	BE	R	
Telephone no E-mail address	C 0	DE		N U	M B	E R			C	 □ □ 			N	U	ME	B E	R	
		D E		N U	M B	E R							N 		M E	B E	R	
E-mail address					M B	E R									M E	B E	R	
E-mail address		D E			M B 	E R							N 			B E	R	
E-mail address		D E 															R	
E-mail address Physical address		D E I I I I I I I I I I I I I I I I I I I I I I I I I I																

Particulars of representative (Public Officer/Trustee/Partner)

Surname		
First names		
ID/Passport no		Income Tax ref no
Telephone no	CODE N U M E R	Fax CODE NUMBER
E-mail address		
Physical address		

Particulars of ter	nder (If applicable)				
Tender number					
Estimated Tender amount	R		,		
Expected duration of the tender	year(s)				
Particulars of the	3 largest contracts previou	isly awarded			
Date started	Date finalised	Principal	Contact person	Telephone number	Amount

Date started	Date finalised	Principal	Contact person	lelephone number	Amount

Audit

Are you currently aware of any Audit investigation against you/the company?		NO
If "YES" provide details		

Appointment of representative/agent (Power of Attorney)

I the undersigned	confirm that I require a Tax Clearance Ce	rtificate in respect of	Tenders	or	Goodstanding.	
I hereby authorise SARS the applicab	e and instruct le Tax Clearance Certificate on my/our be	half.		to aj	oply to and receiv	ve from
					ССҮҮ—М	M — D D
Signa	ture of representative/agent				Date	
Name of representative/ agent						

Declaration

I declare that the information furnished in this application as well as any supporting documents is true and correct in every respect.

													С	С	Y	Y		М		D	
Signatu	pplica	int/Pu	blic (Offic	cer												Da	ite			
Name of applicant/ Public Officer																					

Notes:

- 1. It is a serious offence to make a false declaration.
- 2. Section 75 of the Income Tax Act, 1962, states: Any person who
 - (a) fails or neglects to furnish, file or submit any return or document as and when required by or under this Act; or
 - (b) without just cause shown by him, refuses or neglects to-
 - (i) furnish, produce or make available any information, documents or things;
 - (ii) reply to or answer truly and fully, any questions put to him \ldots
 - As and when required in terms of this Act ... shall be guilty of an offence ...
- 3. SARS will, under no circumstances, issue a Tax Clearance Certificate unless this form is completed in full.
- 4. Your Tax Clearance Certificate will only be issued on presentation of your South African Identity Document or Passport (Foreigners only) as applicable.



PA-11: DECLARATION OF INTEREST AND BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

Failure to complete this form in <u>full</u> and signed by the duly authorized person, as indicated on PA-15.1 or PA-15.3, shall render the tender non-responsive and will be removed from any and all further contention.

Project title:	Land Ports of Entry: Ma Appointment of a servic of building, civil, mecha at the three (03) ports	ce provider/s for the ma anical, electrical infrastru	intenance and repairs acture and installations
Bid no:	H21/006 AI	Reference no:	

The following particulars must be furnished. In the case of a joint venture, separate declarations in respect of each partner must be completed and submitted.

1. CIDB REGISTRATION NUMBER (if applicable)

- 2. Any legal person, including persons employed by the State¹; or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest, where:
- The bidder is employed by the state; and/or
- The legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.
- 3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1	Full Name of bidder or his or her representative:
3.2	Identity number:
3.3	Position occupied in the Company (director, trustees, shareholder ² ect
3.4	Company Registration Number:
3.5	Tax Reference umber:
3.6	VAT Registration Number:



3.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below.

¹ "State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.
- ² "Shareholder" means -

(a) a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercise control over the enterprise

NO

3.7	Are you or any person connected with the bidder	
	presently employed by the state?	YES

3.7.1 If so, furnish the following particulars:

	Name of person / director /trustees/shareholder/ member:
	Name of state institution at which you or the person
	is connected to the bidder is employed
	Position occupied in the state institution:
	Any other particulars:
3.8	Did you or your spouse, or any of the company's directors / trustees/shareholders / members or their spouses conduct business with the state in the previous twelve months?
3.8.1	If so, furnish particulars:
3.9	Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid?
3.9.1	If so, furnish particulars.
	erence to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same g as the words "Tender" or "Tenderer"



- 3.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between the bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid?
- 3.10.1 If so, furnish particulars.

.....

- 3.11 Do you or any of the directors /trustees/shareholders/ members of the company have any interest in any other related companies whether or not they are bidding for this contract?
- 3.11.1 If so, furnish particulars:

.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Personal Tax Reference Number	State Employee Number / Persal Number

5. DECLARATION OF TENDERER / BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

5.1	Is the tenderer / bidder or any of its directors listed on the National Treasury's database as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this database were	U Yes	🗌 No	
-----	--	----------	------	--



		·	1
	informed in writing of this restriction by the National		
	Treasury after the audi alteram partem rule was applied).		
5.2	If so, furnish particulars:		
5.3	Is the tenderer / bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? To access this Register enter the National Treasury's website, www.treasury.gov.za, click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 3265445.	U Yes	🗌 No
5.4	If so, furnish particulars:		
5.5	Was the tenderer / bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	U Yes	No
5.6	If so, furnish particulars:		
5.7	Was any contract between the tenderer / bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Ves	No No
5.8	If so, furnish particulars:		

6. CERTIFICATION

I the undersigned (full name) ______ certify that the information furnished on

this declaration form is true and correct.

I accept that, in addition to cancellation of a contract, action may be taken against me should this declaration prove to be false.

Name of Tenderer / bidder	Signature	Date	Position

This form has been aligned with SBD4 and SBD 8



PA-29: CERTIFICATION OF INDEPENDENT BID DETERMINATION

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months		
Bid no:	H21/006 AI	Reference no:	

INTRODUCTION

- This PA-29 [Certificate of Independent Bid Determination] must form part of all bids¹ invited.
- 2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4. This form (PA-29) serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- In order to give effect to the above, the attached Certificate of Bid Determination (PA-29) must be completed and submitted with the bid:

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.



Certification of Independent Bid Determination: PA-29

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: ______ that:

(Name of Bidder)

- 1. I have read and I understand the contents of this Certificate.
- 2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect.
- 3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder.
- 4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder.
- 5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:



Certification of Independent Bid Determination: PA-29

- (a) has been requested to submit a bid in response to this bid invitation;
- (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
- (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.
- 6. 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 consortium³ will not be construed as collusive bidding.
- 7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
- 8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 9. 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.

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



Certification of Independent Bid Determination: PA-29

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 ³ 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. 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.

Name of Bidder	Signature	Date	Position



PA-15.1: RESOLUTION OF BOARD OF DIRECTORS

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

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

Held at ______ (place)

on _____ (date)

RESOLVED that:

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

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

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



15		
16		
17		
18		
19		
20		

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

Note: **ENTERPRISE STAMP** * Delete which is not applicable. 1. 2. **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, 3. 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 4. 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 5. exceed the space available above, additional names and signatures must be supplied on a separate page.



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:

2.	*Mr/Mrs/Ms:	
	Bid / Tender Number:	(Bid / Tender Number as per Bid / Tender Document)
	Did / Tandar Number	
	(Project description as per Bid /Tender Document)	
	to the Department of Public Works in respect of	the following project:
	to the Department of Dublic Marke in respect of	the fellowing project.
	(List all the legally correct full names and registration numbe Venture)	ers, if applicable, of the Enterprises forming the Consortium/Joint

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:		
	(0	code)


We Work and Infrastructure PUBLIC OF SOUTH AFRICA Resolution of Board of Directors to enter into Consortia or Joint Ventures: PA-15.2

Postal Address:	

_____ (code)

Telephone number: _____

Fax number: _____

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

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

Note:

- * Delete which is not applicable. 1.
- NB: This resolution must, where possible, be signed by 2. 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).
- Directors / Members / Partners of the Bidding Enterprise 4. 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		

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". Page 2 of 2 For external use Version: 1.2



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.	1	
2.	2	
3.	3	
·		
4.	1	
5.		
	 Э	
7.	7	
8.	3.	
	Held at	
	on	
	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)



REPUBLIC OF SOUTH AFRICA Special Resolution of Consortia or Joint Ventures: PA-15.3

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:	
	 (code)
Postal Address:	
	 (code)
Telephone number:	
Fax number:	



Department: Proble Works and Infrastructure REPUBLIC OF SOUTH AFRICA Special Resolution of Consortia or Joint Ventures: PA-15.3

	Name	Capacity	Signature
1			
2			
3			
4			
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13			
14			
15			

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

Note:

1. * Delete which is not applicable.

- **NB:** This resolution must be signed by <u>all</u> 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. 2.
- З. 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.
- 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). 4.



DPW-16 (EC): Site inspection meeting certificate

DPW-16 (EC): SITE INSPECTION MEETING CERTIFICATE

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months		
Tender no:	H21/006 AI	Reference no:	
Closing date:	9 July 2021		

This is to certify that I, ______representing ______in the company 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

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017 AND THE AMENDED B-BBEE CODES.

1. GENERAL CONDITIONS

- 1.1. The following preference point systems are applicable to all bids:
 - 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. The value of this bid is estimated to **Not Exceed**R50 000 000 (all applicable taxes included) and therefore the...**80/20**.....system shall be applicable.
- 1.3. Preference points for this bid shall be awarded for:
 - (a) Price; and
 - (b) B-BBEE Status Level of Contribution.
- 1.3.1 The maximum points for this bid are allocated as follows:

		POINTS
1.3.1.1	PRICE	80
1.3.1.2	B-BBEE STATUS LEVEL OF CONTRIBUTION	20
	Total points for Price and B-BBEE must not exceed	100

- 1.4. Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.5. An Exempted Micro Enterprise (EME) is only required to obtain a sworn affidavit or a certificate issued by Companies and intellectual property Commission (CIPC) confirming their annual turnover of R10 Million or less and level of black ownership to claim points.
- 1.6. Qualifying Small Enterprise (QSE) is only required to obtain a sworn affidavit or a certificate issued by Companies and intellectual property Commission (CIPC) confirming their annual turnover of R10 Million



or less and level of black ownership to claim points.

- 1.7 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.
- 1.8 CERTIFICATES ISSUED BY IRBA AND ACCOUNTING OFFICER HAVE BEEN DISCONTINUED; HOWEVER VALID CERTIFICATES ALREADY ISSUED BEFORE 01 JANUARY 2017 MAY BE USED UNTIL THEY PHASE OUT COMPLETELY BY DECEMBER 2017

2. DEFINITIONS

- (a) "**all applicable taxes**" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- (b) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (c) "**B-BBEE status level of contributor**" means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (d) "**bid**" means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- (e) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (f) **"comparative price"** means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- (g) "consortium or joint venture" 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;
- (h) "**contract**" means the agreement that results from the acceptance of a bid by an organ of state;
- (i) "EME" means an Exempted Micro Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (j) "Firm price" means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- (k) "functionality" means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- (I) "non-firm prices" means all prices other than "firm" prices;
- (m) "person" includes a juristic person;



- (n) "QSE" means a Qualifying Small Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (o) **"rand value"** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- (p) "sub-contract" means the primary contractor's assigning, leasing, making out work to, or employing, another person to support such primary contractor in the execution of part of a project in terms of the contract;
- (q) "total revenue" bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the *Government Gazette* on 9 February 2007;
- (r) **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- (s) "**trustee**" means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The bidder obtaining the highest number of total points will be awarded the contract.
- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts;.
- 3.3 Points scored must be rounded off to the nearest 2 decimal places.
- 3.4 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 3.6 Should two or more bids be equal in all respects, the award shall be decided by the drawing of lots.

4. POINTS AWARDED FOR PRICE

4.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis: 80/20 or 90/10

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

Where



Pt = Comparative price of bid under consideration

Pmin = Comparative price of lowest acceptable bid

5. Points awarded for B-BBEE Status Level of Contribution

5.1 In terms of Regulation 6(2) and /or 7(2), of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

- 5.2 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.
- 5.3 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated

entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.

- 5.4 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 5.5 A person awarded a contract may not sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is sub-contracted to an EME that has the capability and ability to execute the

contract is sub-contracted to an EME that has the capability and ability to execute the sub-contract.

6. BID DECLARATION

6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.3.1.2 AND 5.1

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 Use Effective date April 2017 Version: 1.3



7.1 B-BBEE Status Level of Contribution: =(maximum of 10 or 20 points)

5

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or Sworn Affidavit for EME's and QSE's.

8 SUB-CONTRACTING (relates to 5.5)

- 8.1 Will any portion of the contract be sub-contracted? YES / NO (delete which is not applicable)
- 8.1.1 If yes, indicate:
 - what percentage of the contract will be subcontracted? (i)
 -%
 - (ii) the name of the sub-contractor?
 - (iii) the B-BBEE status level of the sub-contractor?

(iv) whether the sub-contractor is an EME/ a QSE? YES / NO (delete which is not applicable)

Designated Group: An EME or QSE which is at last 51% owned	EME	QSE
by:		
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

DECLARATION WITH REGARD TO COMPANY/FIRM 9

9.1	Name of company/firm		:
9.2	VAT registration number	:	
9.3	Company registration number		
9.4	TYPE OF COMPANY/ FIRM		
	Partnership/Joint Venture / Consor	tium	
	One person business/sole propriet	у	
	Close corporation	-	
	Company		
	(Pty) Limited		
		in any other documentation shall be construed to have the same meani	0
	or "Tenderer".		Page 5 of 7
For Interr	nal Use	Effective date April 2017	Version: 1.3



[TICK APPLICABLE BOX]

5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

- 9.6 COMPANY CLASSIFICATION
- Manufacturer
- □ Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.
 [TICK APPLICABLE BOX]
- 9.7 Total number of years the company/firm has been in business?
- 9.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraph 7 of the foregoing certificate/ Sworn Affidavit, qualifies the company/ firm for the preference(s) shown and I / we 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 paragraph 7, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
 - (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have
 - (a) Disqualify the person from the bidding 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) restrict the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, 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

WITNESSES:

1.	
2	
	SIGNATURE(S) OF BIDDER(S)

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". Page 6 of 7 For Internal Use Effective date April 2017 Version: 1.3

public works & infrastructure
Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

DATE:....

ADDRESS:.....

.....



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

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months				
Tender / quotation no:		H21/006 AI	Closing date:	9 July 2021	
Advertising date:		18 June 2021	Validity period:	56 days	

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

1.1. Current projects

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



1.2. Completed projects

Pro	jects completed in the previous 5 e) years	Name of Employer or Representative of Employer	Contact tel. no.	Contract sum	Contractual commence- ment 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-21 (EC): Record of addenda to tender documents DPW-21 (EC): RECORD OF ADDENDA TO TENDER DOCUMENTS

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months			
Tender no:	h21/006 AI Reference no:			

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

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

Name of Tenderer	Signature	Date



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DPW-21 (EC): Record of addenda to tender documents

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

Name of Tenderer	Signature	Date



DPW-15 (EC): SCHEDULE OF PROPOSED SUBCONTRACTORS

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months			
Tender no:	H21/006 AI	Reference no:		

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.

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

Name of representative	Signature	Capacity	Date
Name of organisation:	Signature	Capacity	Dale



DPW-22 (EC): PARTICULARS OF ELECTRICAL CONTRACTOR

Project title: Land Ports of Entry: Mahamba, Emahla Project title: service provider/s for the maintenance a electrical infrastructure and installations period of 36 months		maintenance and repairs of	building, civil, mechanical,
Tender no:	H21/006 AI	Reference no:	

Name of Electrical Contractor:	
Address:	
Electrical Contractor registration number at the Electrical Contracting Board of S.A.:	

Name of Tenderer	Signature	Date



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

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months		
Tender no:	H21/006 AI	Reference no:	

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

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

The Contractor shall list imported items, materials and/or equipment which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only. Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Principal Agent / Engineer of the Department of Public Works 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



(This form has been aligned with NT - SBD 6.2)

PA-36: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Supporting Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

LC = [1 - x / y] * 100

Where

- x is the imported content in Rand
- y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) on the date of advertisement of the bid as indicated in paragraph 3.1 below.

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". Page 1 of 4



PA36: Declaration Certificate for Local Production and Content for Designated Sectors.

(This form has been aligned with NT - SBD 6.2)

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial development/ip.jsp at no cost.

- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;
- 2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

No.	Description of services, works or goods	Stipulated minimum threshold
1.	Textile, clothing, leather and footwear	
1.1	Overalls, hardhats and footwear	100%
1.2	General Personal Protective Equipment (PPE)	100%
2.	Structural and Building	
2.1	Cement concrete applications	100%
2.2	Structural steel reinforcement	100%
3.	Plumbing, drainage and wet services	
3.1	Sanitary ware: Water closets, wash hand basins, urinals and baths	100%
3.2	Sanitary ware and brassware	100%
3.3	Water meters	100%
3.4	Shut-off valves, strainers, non-return valves, expansion relief valves and safety valves	70%
3.5	Gate valves, non-return valves, air release valve and sluice gates	70%
	, , ,	
0.0		
4.	Roads and stormwater drainage	
		100%
4.	Roads and stormwater drainage	100% 100%

3. Does any portion of the goods or services offered have any imported content?

(Tick applicable box)

YES	NO	

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.resbank.co.za

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

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". Page 2 of 4



PA36: Declaration Certificate for Local Production and Content for Designated Sectors.

(This form has been aligned with NT - SBD 6.2)

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION (REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO. h21/006 Al.

ISSUED BY: (Procurement Authority / Name of Institution):

NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex and accessible С, D E) is on http://www.thedti.gov.za/industrial development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below. Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". Page 3 of 4



PA36: Declaration Certificate for Local Production and Content for Designated Sectors.

(This form has been aligned with NT - SBD 6.2)

- the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:	
WITNESS No. 1	DATE:
WITNESS No. 2	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". Page 4 of 4

													SATS 1286.201
							Annex	к С					
					Local	Content D	eclarati <u>on</u>	- Summar	y Sched <u>ul</u>	e			
Designate Tender A	lescription: ed product Authority:	(s)										<u>Note:</u> VAT to be exc calculations	uded from all
	ng Entity nai Exchange Ra		Pula		EU		GBP		T				
	d local conte		Pula		EU		GBP		Į				
						Calculation of l	ocal content				Tend	er summary	
Tender no's		List of iten		Fender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8	3)	(C9)		(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
<u> </u>	<u> </u>					<u> </u>		ļ	(C20) Total	tender value	RO		
<u>Signature</u>	e of tendere	er from Annex B									ot imported content		
								(C22) Total	Tender value	e net of exem	ot imported content	R 0 al Imported content	R
												Total local content	R
Date:												content % of tender	

											SATS 1286.201
				-							
		Imported C	ontent Declaratio	on - Suppoi	rting Scheo	dule to Anr	iex C				
							<u>Note:</u> VAT to be e all calculations	excluded from]		
									-		
ge Rate:	Pula		EU	R 9.00	GBP	R 12.00]				
ed imported cor	ntent					Calculation of	imported conter	nt			Summary
Description of im	ported content	Local supplier	Overseas Supplier	Forign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted import value
(D8	3)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
1		L		1	1	I	1	(D15	9) Total exempt ir	This total m	R ust correspond with nex C - C 21
d directly by the	e Tenderer					Calculation of	f imported conter	nt			Summary
		Unit of measure	Overseas Supplier	Forign currency value as per Commercial	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs	Total landed cost excl VAT		Total imported val
(D2:	1)	(D22)	(D23)	Invoice (D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
			1	1	1			(D32) To	otal imported valu	e by tenderer	R
d by a 3rd party	and supplied	to the Tend	lerer			Calculation of	imported conter	nt			Summary
of imported content	Unit of measure	Local supplier	Overseas Supplier	Forign currency value as per Commercial	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported va
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
								(D45) To	tal imported valu	e by 3rd party	R
oreign currency	payments										Summary of payments
	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange							Local value of payments
(D46)	(D47)	(D48)	(D49)	(D50)							(D51)
]	D52) Total of f	oreign currency pa	vments declare	d by tenderer an	d/or 3rd party	
								-	nts - <i>(D32), (D45) &</i>		
nderer from Annex B											
nderer from Annex B					(<i>D53</i>) Tota	i of imported co	intent & foreign tu	irrency payment	13 - (D32), (D43) (This total m	ust correspond with nex C - C 23
	Description of im	tion: ducts: yname: ge Rate: Pula ed imported content Description of imported content (D8) Description of imported content (D21) Description of imported content (D22) Description of imported content (D23) (D24) Description of imported content (D24) (tion: ducts: ty: yname: ge Rate: Pula ed imported content Description of imported content (D8) (D9) (D2) (D3)	Imported Content Declaration duts::::::::::::::::::::::::::::::::::::	tion: ducts: yrame:	Imported Content Declaration - Supporting Scher tion:	Imported Content Declaration - Supporting Schedule to Any Supplement to the second secon	Imported Content Declaration - Supporting Schedule to Annex C tor::::::::::::::::::::::::::::::::::::	Imported Content Declaration - Supporting Schedule to Annex C bite::::::::::::::::::::::::::::::::::::	Imported Content Declaration - Supporting Schedule to Annex C instrict in the intervent of the second of th	Imported Content Declaration - Supporting Schedule to Annex C Instruction Instruction Instruction Very memory Very memory <t< td=""></t<>

	Annex E	S	ATS 1286.2011
	Annex E		
Local Co	ontent Declaration - Supporting So	chedule to Annex C	
Tender No. Tender description: Designated products: Tender Authority:		<u>Note:</u> VAT to be excluded from	all calculations
Tendering Entity name: Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
	(E9) Total local products	(Goods, Services and Works)	R 0
(E10) Manpower costs (Te	nderer's manpower cost)		R 0
(E11) Factory overheads (Re	ntal, depreciation & amortisation, utility costs, cor	nsumables etc.)	R 0
(E12) Administration overhead	and mark-up (Marketing, insurance, financin	g, interest etc.)	R 0
		(E13) Total local content	R 0
		This total must correspond wit	h Annex C - C24
Signature of tenderer from Annex B			
Date:			



PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

Name of Tenderer

EME¹ **QSE**² **Non EME/QSE (tick applicable box)**

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

Name and Surname #	ldentity/ 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.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
2.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
3.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
4.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
5.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
6.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
7.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
8.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
9.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
10.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
11.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 No
12.		%	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No	🗌 Yes 🗌 No		🗌 Yes 🗌 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)

¹ EME: Exempted Micro Enterprise

² QSE: Qualifying Small Business Enterprise



PA- 40: DECLARATION OF DESIGNATED GROUPS FOR PREFERENTIAL PROCUREMENT

2. DECLARATION:

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

- 1 The information and particulars contained in this Affidavit are true and correct in all respects;
- 2 The Broad-based Black Economic Empowerment Act, 2003 (Act 53 of 2003), Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000), the Preferential Procurement Regulations, 2017, National Small Business Act 102 of 1996 as amended and all 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

Name of representative	Signature	Date



public works

Department: Public Works REPUBLIC OF SOUTH AFRICA

DECLARATION – EPWP PROGRAMME

from the Company

Hereby Undertake To Comply To:

()

- 1. LABOUR INTENSIVE CONSTRUCTION METHODS (LIC)
 - 1.1 Comply To Implementation Of LIC BOQ Items Specified Elsewhere In The Tender Documents

2: RECRUITMENT AND PLACEMENT OF EPWP NYS PARTICIPANTS

- 2.1 Recruitment, Placement And Exposure Training Of 25 (Twenty Five) Participants
- 2.2 Comply To EPWP BOQ, Specifications and Code Of Good Practice

3. RECRUITMENT AND PLACEMENT OF LOCAL LABOURERS

- 3.1 Recruitment And Placement Of 30 (Thirty) 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

Company name :_____

Date

Annexure A



NOTE 1: FAILURE TO COMPLETE THIS FORM WILL RESULT IN NO SCORES BEING ALLOCATED NOTE 2: BIDDERS ARE NOT ALLOWED TO REPLICATE THIS FORM NOTE 3: IF ITEMS ARE OWNED OR RENTED PROOF MUST BE PROVIDED

Project Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

Description	Quantity	Owned	Outsourced
Instrumentation for testing of drinking water			
Bench top potentiometer, accurate and precise to at least 0,1 pH unit,	3		
including reference electrode and glass sensor or combination electrode;			
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	3		
capable of being read to the nearest 0,1 °C;			
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		
Instrumentation for testing of waste water	Quantity	Owned	Outsourced

Bench top potentiometer, accurate and precise to at least 0,1 pH including reference electrode and glass sensor or combination electrode	1		
Electrical conducting meter, with error not exceeding 1 % or 0,1 m			
Turbidity meter	1		
Utility Vehicles	Quantity	Owned	Outsourced
SUV's	1		
LDV's	3		
Plant	Quantity	Owned	Outsourced
TLB'S	1		
10m3 Trucks	1		
6m3 Trucks	1		
Hand tools and machinery	Quantity	Owned	Outsourced
Plate Compacter	1		
Poker & Drive Unit	1		
Wheel barrows	12		
Tool boxes with hammers, Pliers, Screwdrivers, spanners etc.	. 5		
Tools to lower the High Masts for servicing of the light fittings	4		
Step ladders	4		
Concrete Mixer	2		
IAME OF REPRESENTATIVE: SIGNAT	URE:	DATE:	



THE CONTRACT

- PART C1: AGREEMENT AND CONTRACT DATA
- PART C2: PRICING DATA
- PART C3: SCOPE OF WORK
- PART C4: SITE INFORMATION



REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF PUBLIC WORKS

TABLE OF CONTENTS

PART C1: AGREEMENT AND CONTRACT DATA (WHITE COLOUR)

- C1.1: FORM OF OFFER AND ACCEPTANCE
- C1.2: CONTRACT DATA
- C1.3: FORM OF GUARANTEE

PART C2: PRICING DATA (YELLOW COLOUR)

C2.1: PRICING INSTRUCTIONS C2.2: BILL OF QUANTITIES

PART C3: SCOPE OF WORK (BLUE COLOUR)

TABLE OF CONTENTS

C3.1: STANDARD SPECIFICATIONS

PART C 4: SITE INFORMATION (GREEN COLOUR)

C4.1: LOCALITY PLAN



DPW-05: (EC) CONTRACT DATA - (GCC (2010) 2nd EDITION: 2010)

Project title:	service provider/s for the	maintenance and repairs c	thashoop: Appointment of a of building, civil, mechanical, 03) ports of entry for a period
Tender no:	H21/006 AI	Reference no:	

PART 1: DATA PROVIDED BY THE EMPLOYER
CONDITIONS OF CONTRACT
The General Conditions of Contract for Construction Works, Second Edition, 2010, published by the South African Institution of Civil Engineering, Private Bag X200, Halfway House, 1685, is applicable to this Contract and is obtainable from <i>www.saice.org.za</i>

CONTRACT	SPECIFIC DATA
	g contract specific data, referring to the General Conditions of Contract for Construction Works, Second), 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.
1.1.1.13	Amend Clause 1.1.1.13 as follows, clarify when the defects liability period starts:
	"Defects Liability Period" means the period stated in the Contract Data, commencing on the date indicated on the Certificate of Completion 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: 12 months .
1.1.1.14 & 5.14.7	The time for achieving Practical Completion of the whole of the works is: 36 <i>calander months</i> measured from the <u>Commencement</u> Date. The time thus stated includes special non-working days and the year-end break.
5.14.7	or, if Practical Completion in portions is required,
	The times for achieving Practical Completion for the portions as set out in the Scope of Works are <i>mutatis mutandi</i> :
	For portion 1 within Maintenance and Operation - 36 Months
	For portion 2 within
	For portion 3 within
	For portion 4 within

Any reference to words "Bid" or Bidder" herein and/or in any other documentation shall be construed to have the same meaning as the words "Tender" or "Tenderer". Page 1 of 11 For Internal & External Use Effective date June 2015 Version: 2.1



	<i>(followed by further portions as required)</i> The time for achieving Practical Completion of the whole of the Works is: 36 calendar months, measured
	from the Commencement Date. The time thus stated includes special non-working days and the year-end break.
1.1.1.15	The name of the Employer is:
	The Government of the Republic of South Africa in its Department of Public Works.
1.1.1.16	The name of the Engineer is: ETL Consulting (Pty) Ltd - Principal Agent, Multidisciplinary Engineering
1.1.1.26	The Pricing Strategy is a: Re-measurement Contract.
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 Engineer 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.
1.2.1.2	Employer's address:
	Physical Address: Central Government Office C/o Bosman and Madiba Streets Pretoria 0002
	Postal Address: <i>Private Bag X65</i> <i>Pretoria</i> <i>0001</i>
	Facsimile: N/A
	Telephone: 012 406 1129
	Engineer's address:
	Physical Address: The Oval Centurion Building 1 Meadowbrook Lane Bryanston 2152
	Postal Address: PO BOX 8129 Halfway House Midrand 1685
	Facsimile: 086 540 6795
	Telephone: 010 800 1534



1.3.4	Not a	applicable to this Contract.
1.3.5	Replace Clause 1.3.5 with the following provisions:	
	(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, but in any event on the termination and/or cancellation of this Contract for whatever reason. The Contractor relinquishes its retention or any other rights thereon to which it may be entitled.
	(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.
	(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.
	(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.
	(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.
	(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.
3.1.3	1.	The Engineer's authority to act and/or to execute functions or duties or to issue instructions are expressly excluded in respect of the following:
		(a) Appointment of nominated Sub-contractors – clause 4.4.3;
		 (b) Granting of an extension of time and/or ruling on claims associated with claims for extension of time – clauses 5.12.3, 10.1.5;
		(c) Acceleration of the rate of progress and determination of the cost for payment of such acceleration – clause 5.12.4;
		(d) Rulings on claims and disputes – clauses 10.1.5, 10.2.3 and 10.3.3;
		(e) Suspension of the Works – clause 5.11.1;
		(f) Final Payment Certificate – clause 6.10.9;
		(g) Issuing of <i>mora</i> notices to the Contractor – clauses 9.1.1, 9.1.2.1 and 9.2.1;
		(h) Cancellation of the contract between the Employer and Contractor – clauses 9.1.1, 9.1.2.1 and 9.2.1.


- 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.
- 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 Engineer 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 Engineer timeous and in the correct format will invalidate any claim and the consequences of such failure will *mutatis mutandis* be as stated in clause 10.1.4.
- 4. Clauses 6.10.9 and 10.1.5 shall be amended as follows to indicate the limitation on the Engineer's authority in respect thereof:

Clause 6.10.9 – Amend to read as follows:

Within 14 days of the date of final approval as stated in the Final Approval Certificate, the Contractor shall deliver to the Engineer 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). The Employer shall within 14 days issue to the Contractor a Final Payment Certificate the amount of which shall be paid to the Contractor within 28 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).

Clause 10.1.5 – Amend to read as follows:

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.

5. Insert the following under 3.1.3:

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 Engineer 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 Engineer, 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 Engineer and which has subsequently been rescinded.

3.2.2.1 Amend Clause 3.2.2.1 to insert the word "Plant" to read as follows: Observe the execution of the Works, examine and test material, Plant and workmanship, and receive from the Contractor such information as he shall reasonably require. 3.2.3.2 Amend Clause 3.2.3.2 to insert the word "Plant" to reads as follows: Notwithstanding any authority assigned to him in terms of Clauses 3.2.2 and 3.2.4, failure by the Engineer's Representative to disapprove of any work, workmanship, Plant or materials shall not prejudice the power of the Engineer thereafter to disapprove thereof and exercise any of his powers in terms of the Contract in respect of thereof. 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:



TANK	
	Provides any other facility or service of whatsoever nature to the Employer or to any of the said contractors, persons or authorities,
5.3.1	The documentation required before commencement with Works execution are:
	Health and Safety Plan (Refer to Clause 4.3)
	Initial programme (Refer to Clause 5.6)
	Security(Refer to Clause 6.2)Insurance(Refer to Clause 8.6)
5.3.2	The time to submit the documentation required before commencement with Works execution is: 21 days.
5.4.2	The access to, and possession of, the Site referred to in Clause 5.4.1 shall be <i>not exicusive</i> to the Contractor. In the event of access to, and possession of, the Site is not exclusive to the Contractor, the following limitations apply:
	Access shall be arranged with The Engineer regarding repair work.
5.8.1	The non-working days are: Saturdays and Sundays
	The special non-working days are:
	(1) Public Holidays;
	(2) The year-end break commencing on 16 December until the Sunday preceding the first working Monday of January of the succeeding year.
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.
5.13.1	The penalty for failing to complete the Works is: R As Per BOQ per day
	<u>or</u> , if completion in portions is required,
	The penalty for failing to complete portion 1 of the Works is: R As Per BOQ per day.
	The penalty for failing to complete portion 2 of the Works is: R As Per BOQ per day.
	The penalty for failing to complete portion 3 of the Works is: R As Per BOQ per day.
	The penalty for failing to complete portion 4 of the Works is: R As Per BOQ per day.
	Followed by further portions as required.
	The penalty for failing to complete the whole of the works is: RAs Per BOQ per day .
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 Engineer 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 Engineer 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 14 th day after the contractor requested the Certificate of Practical



	Completion.
5.16.1	Amend Clause 5.16.1 to delete the proviso in the third paragraph of this clause.
5.16.2	Amend Clause 5.16.2 as follows: 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 Engineer and/or the Employer.
5.16.3	The latent defect period for all works is: 5 years .
6.2.1	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.
6.2.3	Amend Clause 6.2.3 as follows: 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.
6.5.1.2.3	The percentage allowance to cover overhead charges is: 33%, except on material cost where the percentage allowance is 10%.
6.8.2	Contract Price Adjustment (CPA) will be applicable: Yes.
	If CPA is indicated as 'Yes" above the value of payment certificates is to be adjusted by a Contract Price Adjustment Factor:
	The value of the certificates issued shall be adjusted in accordance with the Contract Price Adjustment Schedule with the following values:
	The value of "x" is 0.15.
	The values of the coefficients are: a = 0.25. (Labour) b = 0.3 (Contractor's equipment) c = 0.3 (Material) d = 0.15 (Fuel)
	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)
	The urban area nearest the Site is eMkhondo (Mpumalanga) . (Select urban area from Statistical News Release, P0141, Table 7.1.)
	The applicable industry for the Producer Price Index for materials is Construction . (Select the applicable industry from Statistical News Release, P01421, Table 11.)
	The area for the Producer Price Index for fuel is eMkhondo (Mpumalanga) . (Select the area from Statistical News Release, P01421, Table 12.)
	The base month is September 2024. (The month prior to the closing of the tender.)
6.8.3	Price adjustments for variations in the costs of special materials are not allowed.



6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is: 85 %.			
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.			
6.10.5	Replace Clause 6.10.5 with the following:			
	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 Engineer 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.			
	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 Engineer 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.			
	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 Engineer 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.			
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.			
8.4.3	Insert a new Clause 8.4.3 as follows:			
	The Contractor shall on receiving a written instruction from the Engineer 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.			
8.6.1.1.1	Amend Clause 8.6.1.1.1 to read as follows: Contract Sum plus 10%.			
8.6.1.1.2	The value of Plant and materials supplied by the Employer to be included in the insurance sum is: Nil			
8.6.1.1.3	The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is: Nil			
8.6.1.3	Amend Clause 8.6.1.3 to delete reference to limit of indemnity, to read as follows:			



	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 fulfillment of the Contract, from the Commencement Date to the date of the end of the Defects Liability Period, if there is one, or otherwise to the issue of the Certificate of Completion.			
8.6.1.5	1. Public liability insurance to be effect by the Contractor to a minimum value of:			
	⊠ R5 million			
	or			
	R insert amount in figures (and in words)			
	With a deductible not exceeding 5% of each and every claim.			
	2. Support insurance is to be effected by the Contractor to a minimum value of:			
	R 20 000 000 (Twenty Million Rand)			
	With a deductible not exceeding 5% of each and every claim.			
8.6.5	Amend Clause 8.6.5 as follows:			
	Save as otherwise provided in the Contract Data, the insurances referred to in Clause 8.6.1 shall be effected with an insurance company registered in the Republic of South Africa. The Contractor shall submit the insurance policy to the Employer for approval, if so requested.			
8.6.7	Amend Clause 8.6.7 as follows:			
	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.			
8.6.8	Insert a new Clause 8.6.8 in provide for high risk insurance for projects executed on areas classified as "High Risk Areas".			
	HIGH RISK INSURANCE			
	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:			
	(1) Damage to the Works			
	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.			
	When so instructed to do so by the Engineer, 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.			
	(2) Injury to Persons or Loss of or damage to Properties			
	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.			



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	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 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.			
	(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.			
	(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.			
9.1.4	Amend Clause 9.1.4 as follows:			
	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 to 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;			
9.1.5	Amend Clause 9.1.5 as follows:			
	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:			
9.1.6	This Clause is not applicable to this Contract.			
9.2.1.3.8	Insert a new Clause 9.2.1.3.8 as follows:			
	Has failed to effect and keep in force any of the insurances referred to in Clause 8.6.1,			
9.2.4	Insert a new Clause 9.2.4 as follows, to provide for unilateral termination by the Employer:			
	The Employer shall be entitled at any time to unilaterally terminate or cancel this Contract or any part thereof. Save for the following, the Contractor shall not be entitled to claim any other amounts whatsoever in respect of such termination or cancellation of this Contract. The Employer shall be obliged to pay the Contractor as damages and/or loss of profit the lesser of:			
	9.2.4.1 An amount not exceeding 10% of the Contract Sum;			
	9.2.4.2 10% of the value of incomplete work; or			
	9.2.4.3 The Contractor's actual damage or loss as determined by the Employer after receipt of evidence substantiating any such damage or loss.			
9.3.2.2	Amend Clause 9.3.2.2 as follows to delete the proviso on lien:			
	The ownership of Plant and unused materials brought onto the Site by the Contractor, and for which the			



	Employer has not made any payment, shall revest to the Contractor and he shall, with all reasonable dispatch, remove from the Site such Plant, materials and all Construction Equipment and Temporary Works.
9.3.3	Insert the following at the end of Clause 9.3.3
	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.
10.1.3.1	Amend Clause 10.1.3.1 as follows to insert the word "Plant":
	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 Engineer, records in a form approved by the Engineer, 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, labour, Plant and materials relevant to each claim. Such records shall be submitted promptly after the occurrence of the event giving rise to the claim.
10.1.6	Insert a new Clause 10.1.6 as follows:
	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.
10.2.1	Amend Clause 10.2.1 as follows:
	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 Engineer. This written claim shall be supported by particulars and substantiated.
10.2.2	Amend Clause 10.2.2 as follows:
	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.
10.3.2	Amend Clause 10.3.2 as follows to replace "adjudication" with "court":
	If either party shall have given notice in compliance with Clause 10.3.1, the dispute shall be referred to court proceedings in terms of Clause 10.8, unless amicable settlement is contemplated.
10.3.3	Replace "Engineer" with "Employer".
10.4.2	Amend Clause 10.4.2 as follows to provide for submission to court:
	If the other party rejects the invitation to amicable settlement in writing or does not respond in writing to the invitation with 14 days, or amicable settlement is unsuccessful, either party may submit the dispute to court.
10.4.4	Amend Clause 10.4.4 to delete reference to "adjudication" and "arbitration" to read as follows:
	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 or 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.
10.5 10.6 & 10.7	The entire provisions of these Clauses are not applicable to this Contract.



10.10.3 Amend Clause 10.10.3 as follows to reword and remove reference to "arbitrator": The court shall have full power to open up, review and revise any ruling, decision, order, instruction, certificate or valuation of the Engineer and Employer and neither party shall be limited in such proceedings before such court to the evidence or arguments put before the Engineer or Employer for the purpose of obtaining his ruling.

	PART 2: DATA PROVIDED BY THE CONTRACTOR				
1.1.1.9	The name of the Contractor is:				
1.2.1.2	The address of the Contractor is:				
	Physical Address:				
	Postal Address:				
	Facsimile:				
	Telephone:				
6.2.1	The security to be provided by the Contractor shall be one of the following:				
	(a) Cash deposit of 10 % of the Contact Sum (excl. VAT)	🗌 YES	or		
	(b) Variable performance guarantee of 10 % of the Contract Sum (excl. VAT)	🗌 YES	or		
	(c) Retention of 10 % of the value of the Works (excl. VAT)	🗌 YES	or		
	(d) Cash deposit of 5 % of the Contract Sum (excl. VAT) plus retention of 5 % of the value of the Works (excl. VAT)	🗌 YES	or		
	(e) Performance guarantee of 5 % of the Contract Sum (excl. VAT) plus retention of 5 % of the value of the Works (excl. VAT)	🗌 YES	or		
	NB: Guarantees submitted must be issued by either an insurance co of the Short-Term Insurance Act, 1998 (Act 53 of 1998) or by a bank Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above of the wording of the pro-forma will be accepted.	duly regis	stered	in terms of the	



DPW-10.2 (EC): VARIABLE CONSTRUCTION GUARANTEE -(GCC (2010) 2nd EDITION: 2010)

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

To: Private Bag

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Sir,

VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF GCC (2010) 2nd EDITION 2010

With reference to the contract between 1.

representing

_ (hereinafter referred to as the "contractor") and the Government of the Republic of South Africa in its Department of , for the *LAND* Public Works (hereinafter referred to as the "employer"), Contract/Tender No: PORTS OF ENTRY: MAHAMBA, EMAHLATHINI AND BOTHASHOOP -MAINTENANCE AND SERVICING OF BUILDINGS, CIVIL, MECHANICAL AND ELECTRICAL INFRASTRUCTURE, AND INSTALLATIONS FOR A PERIOD OF 36 MONTHS (hereinafter referred to as the "contract") for the sum of R), . (

(hereinafter referred to as the "contract sum").

I/We,

in my/our capacity as	and	hereby

(hereinafter referred to as the "guarantor") advise that the guarantor holds at the employer's disposal the sum of R) being 10% of the contract sum

, ((excluding VAT), for the due fulfilment of the contract.

- 2. I / We advise that the **guaranto**r's liability in terms of this guarantee shall be as follows:
 - From and including the date on which this guarantee is issued and up to and including the day (a) before the date on which the last certificate of completion of works is issued, the guarantor will be liable in terms of this guarantee to the maximum amount of 10% of the contract sum (excluding VAT);
 - The guarantor's liability shall reduce to 5 % of the value of the works (excluding VAT) as (b) 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);
 - This guarantee shall expire on the date of the last final approval certificate. (c)
- 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 aforegoing, 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
	200	
AS WITNESS		
1		
2		
	By and on behalf of	-
	(insert the name and physical address of	- the guarantor)
	NAME:	
	CAPACITY: (duly authorised thereto by resolution a Annexure A)	 ttached marked
	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 (2010) 2nd EDITION: 2010)

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

To: Private Bag

Sir,

FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF GCC (2010) 2^{ND} EDITION 2010

1.	With reference to the contract between	
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	((hereinafter	
referred to as the "contractor") and the Government of the Republic of South Africa in its Department			
of Public Works (hereinafter referred to as the "employer"	"), Contract/Tender No: insert	Contract /	
Tender No, for the Land Ports of Entry: Mahamba, Emahla	athini and Bothashoop: Appoint	ment of a	
service provider/s for the maintenance and repairs of building	ng, civil, mechanical, electrical		
infrastructure and installations at the three (03) ports of entry for a period of 36 months (hereinafter			
referred to as the " contract "), for the sum of R	, (),	
(hereinafter referred to as the "contract sum").			
I / We,			
in my/our capacity as	6	and hereby	
representing	(hereinafter referre	ed to as the	

"guarantor") advise that the guarantor holds at the employer's disposal the sum of R , () being 5% of the contract sum (excluding VAT), for the due fulfillment of the contract.

- 2. The **guarantor** hereby renounces the benefits of the exceptions *non numeratae pecunia; non causa debiti; excussionis et divisionis;* and *de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves 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



aforegoing, 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.		
	By and on behalf of	
	(insert the name and physical	address of the guarantor)
	NAME:	
	CAPACITY: (duly authorised thereto by rea Annexure A)	solution attached marked
	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: _____



REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF PUBLIC WORKS

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

C2.1 PRICING INSTRUCTIONS



PG-02.1 (EC) PRICING INSTRUCTIONS – (GCC (2010) 2nd EDITION: 2010)

Project title:	service provider/s for the r	amba, Emahlathini and Both maintenance and repairs of d installations at the three	building, civil, mechanical,
Tender no:	H21/006 AI	Reference no:	

C2.1 Pricing Instructions

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 Standard, Project and Particular Specifications) and the Drawings.

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.

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 Standard, Project and Particular 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.

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 6.6 of the General Conditions of Contract 2010. 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.

5. PRICING OF THE BILL OF QUANTITIES

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 costs 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.

Tender no:

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 Tenderer omits to price any items in the Bill of Quantities, then these items will be considered to have a nil rate or price.

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) an alternative item or material is contemplated;
- (b) variations of specified components in the make-up of a pay item may be expected; and
- (c) 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.

All rates and amounts quoted in the Bill of Quantities 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 Tenderer 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.

6. 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.

7. 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.



Tender no:

8. 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
m³.km	=	Cubic metre - kilometre
Km-pas	=	kilometre - pass
m².pass	=	square metre – pass



Tender no:

C2.1 Bill of Quantities

Please Refer Attached To BOQ



NATIONAL DEPARTMENT OF PUBLIC WORKS

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

C2.2 BILL OF QUANTITIES



DEPARTMENT OF PUBLIC WORKS & INFRASTRUCTURE

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILLS OF QUANTITIES

with GCC for Construction Works - Second Edition 2010



C2.1 Bill of Quantities

PRELIMINARY & GENERAL

SCHEDULE NO 1: GENERAL

CIVIL REPAIR WORK

SCHEDULE NO 2.1: INSTALLATION C1: SCHEDULE NO 2.2: INSTALLATION C2: SCHEDULE NO 2.3: INSTALLATION RC3: SCHEDULE NO 2.4: INSTALLATION RC4:

SCHEDULE NO 2.5: INSTALLATION RC5:

ELECTRICAL REPAIR WORK

SCHEDULE NO ER 1.1: MAHAMBA SCHEDULE NO ER 1.2: MAHAMBA SCHEDULE NO ER 1.3: MAHAMBA SCHEDULE NO ER 2.1: EMAHLATINI SCHEDULE NO ER 2.2: EMAHLATINI SCHEDULE NO ER 2.3: EMAHLATINI SCHEDULE NO ER 3.1: BOTHASHOOP SCHEDULE NO ER 3.2: BOTHASHOOP

MECHANICAL REPAIR WORK

SCHEDULE NO MR 1.1: MAHAMBA SCHEDULE NO MR 1.2: MAHAMBA SCHEDULE NO MR 2.1: EMAHLATINI SCHEDULE NO MR 2.2: EMAHLATINI SCHEDULE NO MR 3.1: BOTHASHOOP SCHEDULE NO MR 3.2: BOTHASHOOP

CIVIL MAINTENANCE WORK

SCHEDULE NO 3.1: INSTALLATION C1: SCHEDULE NO 3.2: INSTALLATION C2:

SCHEDULE NO 3.3: INSTALLATION MC3:

SCHEDULE NO 3.4: INSTALLATION MC4:

SCHEDULE NO 3.5: INSTALLATION MC5:

SCHEDULE NO 3.6: INSTALLATION MC6:

STRUCTURAL AND BUILDING PLUMBING, DRAINAGE AND WET SERVICES FENCING, CLEANING AND SITE KEEPING BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS WASTEWATER TREATMENT WORKS AND SEWER NETWORKS

INTERNAL BUILDING EXTERNAL BUILDING STANDBY POWER INTERNAL BUILDING EXTERNAL BUILDING INTERNAL BUILDING EXTERNAL BUILDING STANDBY POWER

FIRE FIGHTING EQUIPMENT HEATING, VENTILATION & AIR-CONDITIONING FIRE FIGHTING EQUIPMENT HEATING, VENTILATION & AIR-CONDITIONING FIRE FIGHTING EQUIPMENT HEATING, VENTILATION & AIR-CONDITIONING

STRUCTURAL AND BUILDING PLUMBING, DRAINAGE AND WET SERVICES FENCING, CLEANING OF BUILDINGS AND SITE KEEPING BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS WASTEWATER TREATMENT WORKS AND SEWER NETWORKS ROADS AND STORM WATER DRAINAGE



public works & infrastructure Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

ELECTRICAL MAINTENANCE WORK

SCHEDULE NO EM 1.1: MAHAMBA SCHEDULE NO EM 1.2: MAHAMBA SCHEDULE NO EM 1.3: MAHAMBA SCHEDULE NO EM 2.1: EMAHLATINI SCHEDULE NO EM 2.2: EMAHLATINI SCHEDULE NO EM 2.3: EMAHLATINI SCHEDULE NO EM 3.1: BOTHASHOOP SCHEDULE NO EM 3.2: BOTHASHOOP

MECHANICAL MAINTENANCE WORK

SCHEDULE NO MM 1.1: MAHAMBA SCHEDULE NO MM 1.2: MAHAMBA SCHEDULE NO MM 2.1: EMAHLATINI SCHEDULE NO MM 2.2: EMAHLATINI SCHEDULE NO MM 3.1: BOTHASHOOP SCHEDULE NO MM 3.2: BOTHASHOOP INTERNAL BUILDING EXTERNAL BUILDING STANDBY POWER INTERNAL BUILDING STANDBY POWER INTERNAL BUILDING EXTERNAL BUILDING STANDBY POWER

FIRE FIGHTING EQUIPMENT HEATING, VENTILATION & AIR-CONDITIONING FIRE FIGHTING EQUIPMENT HEATING, VENTILATION & AIR-CONDITIONING FIRE FIGHTING EQUIPMENT HEATING, VENTILATION & AIR-CONDITIONING



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

MAHAMBA, EMAHLATHINI & BOTHASHOOP LAND PORTS OF ENTRY: Maintenance and repairs of buildings, civil, electrical and mechanical infrastructure and installations for the period of 36 months (Appointment of the Contractor)

SCHEDULE OF QUANTITIES

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

CALCULATION OF FINAL TENDER SUMMARY	CONTRACTOR
TOTAL : PRELIMINARY AND GENERAL	
TOTAL : CIVIL REPAIR WORK	
TOTAL : ER : ELECTRICAL REPAIR WORK	
TOTAL : MR : MECHANICAL REPAIR WORK	
TOTAL : CIVIL MAINTENANCE WORK	
TOTAL : EM : ELECTRICAL MAINTENANCE WORK	
TOTAL : MM: MECHANICAL MAINTENANCE WORK	
TOTAL EXCLUDING VAT	
15 % VALUE-ADDED TAX (VAT)	
TENDER SUM CARRIED TO THE TENDER FORM	



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILL OF QUANTITIES PRELIMINARY & GENERAL

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

					CONTR	ACTOR	
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	A	MOUNT
1	SABS 1200 A	GENERAL					
1.1		Scheduled fixed-charge and value-related					
1.1.1	PSA 8.3.1	Fixed preliminary and general charges	Sum	1			
1.1.2	PS 3	Details on Contract	Sum	1			
1.2		Scheduled time-related items:					
1.2.1	PSA 8.4.1	Mahamba Port of Entry	No	36			
1.2.2	PSA 8.4.1	Emahlathini Port of Entry	No	36			
1.2.3	PSA 8.4.1	Bothashoop Port of Entry	No	36			
1.3	PSA 8.12	CALL CENTRE					
1.3.1		Call Centre for breakdown calls logged	PC	Sum		R	288 000.00
1.3.2		Charge required by Contractor on item above	%				
1.4	PSA 8.14	HOUSING FOR THE ENGINEER REP					
1.4.1		Housing for the Engineer's Representative	PC	Sum		R	312 500.00
1.4.2		Charge required by Contractor on item above	%				
1.5		OHS ACT					
1.5.1	SI.01	Compliance with OHS Act	No	36			
1.5.1	SI.01	Accredited Fire Fighting Training (1 per year, per site)	No	9			
CARRIE	D FORWAF	RD	<u> </u>				



public works & infrastructure Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

BROUGH	IT FORWA					AMOUNT
		RD	-	-		
1.6	SJ	COVID 19 OHS REQUIREMENTS				
1.6.1		OHS Signage, Medical Waste Bins, Hand Sanitizer, soaps, Masks, Themometer, Gloves and other related Personal Protective Equipment for COVID 19 complaince	PC	Sum	R	288 000.00
1.6.2		Charge required by Contractor on item above	%			
1.7		HIV/AIDS AWARENESS				
1.7.1	SH 07	Awareness Champion	No	36		
1.7.2	SH 04.01	Awareness Workshops	Sum	1		
1.7.3	SH 04.03	Posters Booklets & Videos	Sum	1		
1.7.4	SH05	Access to Condoms	Sum	1		
1.7.5	SH08	Monitoring of Awareness	Sum	1		
1.8	BF	PEST CONTROL				
1.8.1	PSA 8.6	Preventative pest control	PC	Sum	R	450 000.00
1.8.2		Charge required by Contractor on item above	%			
1.9		BCOCC CONTINGENCY				
1.9.1		Provide contingency measures during festive seasons Mahamba - R 2 500 000 Emahlatini - R 1 500 000 Bothashoop - R 1 000 000	PC	Sum	R	5 000 000.00
1.9.2		Charge required by Contractor on item above	%			
1.1		TESTING				
1.10.1	PSA 8.9	Additional tests				
1.10.2		Additional tests required by the Engineer	PC	Sum	R	450 000.00
1.10.3		Attendance & profit	%			
CARRIEI	D FORWAR	RD	1			



k infrastruct Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
1.11		EMERGENCY WATER SUPPLY				
	DW 06.01	Potable Water				
1.11.1		Supply & Delivery of potable water in batches of 1000 It from commercail sources on instruction of the Engineer/Department	m3	600		
1.12	SA 09	Contingency for Operational Damages at Port of Entry				
1.12.1		MAHAMBA Port of Entry	PC	Sum		R 50 000.00
1.12.2		Charge required by Contractor on item above	%			
1.12.3		EMAHLATINI Port of Entry	PC	Sum		R 50 000.00
1.12.4		Charge required by Contractor on item above	%			
1.12.5		BOTHASHOOP Port of Entry	PC	Sum		R 50 000.00
1.12.6		Charge required by Contractor on item above	%			
1.13		RECORD KEEPING				
	SA 07	Site Maintenance Record Keeping (monthly)				
1.13.1		MAHAMBA Port of Entry	No	12		
1.13.2		EMAHLATINI Port of Entry	No	12		
1.13.3		BOTHASHOOP Port of Entry	No	12		
1.14		Payment reduction:				
1.14.1	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	rate only
1.14.2	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-500	rate only
1.14.3	SA.05	03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days		-500	rate only



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILL OF QUANTITIES CIVIL REPAIR WORK

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

				-	CONTR	ACTOR	
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT
2.1		STRUCTURAL AND BUILDING					
2.1.1		PAINTWORK on plastered surfaces					
		Interior quality acrylic emulsion paint with smooth sheen appeal:					
2.1.1.1		On Walls	m2	500			
		Exterior quality pure acrylic emulsion					
		paint with Teflon:					
2.1.1.2		On Walls & Columns	m2	500			
		on Wood surfaces					
		Protective and decorative solvent based					
		polyurethane alkyd semi-gloss non-drip					
		enamel paint:					
2.1.1.3		Doors	m2	100			
2.1.2		<u>CONTINGENCY ALLOWANCE FOR</u> <u>STRUCTURAL AND BUILDING OPERATIONAL</u> DAMAGES AT THE LAND PORTS OF ENTRY					
2.1.2.1		MAHAMBA Port of Entry	PC	Sum		R	800 000.00
2.1.2.2		Charge required by Contractor on item above	%				
2.1.2.3		EMAHLATINI Port of Entry	PC	Sum		R	300 000.00
2.1.2.4		Charge required by Contractor on item above	%				
2.1.2.5		BOTHASHOOP Port of Entry	PC	Sum		R	240 000.00
2.1.2.6		Charge required by Contractor on item above	%				
		ION SUMMARY					
CARRIEL	D TO SECT						



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
2.2	PAA	PLUMBING, DRAINAGE AND WET SERVICES				
	05.01.02 PAA 05.02	DETAIL WORK				
2.2.1	PAA.03	Isolation, stripping, dismantling and removal of existing brassware, sanitary ware and piping:				
		.01 Water closets (WC): .01 Vitreous china WC pan (cistern type)	No	3		
		.02 Vitreous china WC cistern	No	3		
		.03 Flushing mechanisms	No	3		
		.04 Tailpipe connections to WC, including shut of valve	No	3		
		.05 Pan connector (100mm dia)	No	3		
		.06 Toilet seat and cover	No	3		
		.07 Toilet flush valve	No	3		
		.02 Wash hand basins (WHB):				
		.01 Vitreous china wall-mounted wash hand basin	No	3		
		.02 15 mm ø pillar taps and mixers	No	3		
		.03 15 mm ø pipe connections to pillar taps	No	3		
		.04 Rubber flexi P-trap or CP bottle trap	No	3		
		.03 Urinals:				
		.01 Built-in or wall hung urinal	No	3		
		.02 Under wall stop tap or existing flushmaster	No	3		
		.03 Rubber flexi p-trap or CP bottle trap	No	3		
		.04 Existing junior flush valve	No	3		
2.2.2	PAA.08	Supply and installation of domestic geyser installations including shut-off valves, strainers, non-return valves, expansion relief valve, safety valve, drain piping and electrical connection: .01 SANS151 dual 150 litre, 3 kW 600kPa approved geyser	No	3		
CARRIE		.02 SANS151 dual 100litre, 3 kW 600kPa approved geyser	No	3		
CARRIE	D FORWAF					



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE		AMOUNT
BROUGI	HT FORWA	RD					
	SA.09	CONTINGENCY ALLOWANCE FOR PLUMBING, DRAINAGE AND WET SERVICES OPERATIONAL DAMAGES AT THE PORT OF ENTRY					
		MAHAMBA Port of Entry	PC	Sum		R	160 000.00
		Charge required by Contractor on item above	%				
		EMAHLATINI Port of Entry	PC	Sum		R	60 000.00
		Charge required by Contractor on item above	%				
		BOTHASHOOP Port of Entry	PC	Sum		R	48 000.00
		Charge required by Contractor on item above	%				
CARRIFI		RD TO SECTION SUMMARY					





ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
RC3	CC.06	RC.3 REPAIR, RE-FIX AND ALIGNING OF GATES				
3.2.2.1		Single or double gates:				
		.01 Repair,refix and align single or double gates 1.2m high and up to 3.0m wide	m	15		
		.02 Repair, refoc and al gn single or double gates 3.0m high and up to 15mwide	m	15		
	SABS 1200 G	STRUCTURAL CONCRETE				
		Strength concrete:				
	8.4.3	.01 Tubular posts:				
	CC.02	.01 Tubular posts:				
		.1 Class 25 Mpa concrete in strip footings	ms	6		
		.2 Class 25 Mpain concrete walls	ma	4		
	SABS 1200 H	STRUCTURAL STEEL WORK REPAIR TO EXISTING-SLIDING GATES				
	8.3.1	Supply and fabrication of steelwork:				
		.01 Jointing by with 6mm fillet welds:				
		.1 Square section column guides with 500 x 500 x Bmm flat section base plates and end cap plates	t	1		
		.2 Square-section frame work in existing sliding gates	t	1		
		Delivery to site:				
	8.3.2.0	.01 Normal delivery:				
		.1 Columns, rafters, purlins and braces for carport structures complete	t	1		
	D FORWAF					



BROUGHT FORWARD Erection on site: .01 Steel framework and guides for existingsteel sliding gates t 1 8.3.12 Additional tems: .01 Dismantling and removal of existing steel sliding gates No 3 (e) .01 Dismantling and removal of existing steel sliding gate guides No 3 (e) .02 Dismantling and removal existing steel sliding gate guides No 1 (e) .02 Dismantling and removal existing steel sliding gate guides No 1 (f) .03 Dismantling and removal of existing steel panels No 1 (f) .04 Re-erection of existing steel sliding gate guides No 1 (f) .05 Re-erection of existing steel panels No 1 (f) .06 Re-erections of existing steel panels No 1 (g) .07 Tying In to existing steel sliding gates No 1 (g) .08 Tying in to existing steel sliding gate guides No 1	
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(e) .04 Re-erection of existing steel sliding gates No 1 (f) .05 Re-erection of existing steel sliding gate guides No 1 (f) .06 Re-erections of existing steel panels No 1 (g) .07 Tying In to existing stel sliding gates No 1	
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(f) .06 Re-erections of existing steel panels No 1 (g) .07 Tying In to existing stel sliding gates No 1	
(g) .07 Tying In to existing stel sliding gates No 1	
(g) .08 Tying in to existing steel sliding gate guides No 1	
(g) .09 Tying in to existing steel panels No 1	
(g) .10 Replace 150mm sliding gate wheels No 1	
(g) .11 Replace sliding gate guide wheels No 1	
CARRIED FORWARD TO SCHEDULE RC.3	



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGI	HT FORWA	RD				
RC4		RC.4 -BULKWATER REPAIR WORKS				
6.		BQ.BEHOLES:				
6.1		Testing borehole capacity:				
	DA.01	.1 Pump testing of boreholes	No	3		
	DA 01.01	.2 Extra over foritem 500.01.01				
		a) Removal of existing equipment	No	1		
		b) Recovery of lost equipment	No	1		
		c) Installation of temporary pumps	No	1		
		d) Ground water sampling	No	1		
		e) Compilation of borehole report	No	1		
		f) Interhole moves	No	1		
		g) Removal of existing pumping equipment	No	1		
		h) Reinstallation of existing pumping equipment	No	1		
6.2	DA.02	Repair of existing structures				
	DA 02.01	1. Brickwork	m	10		
	DA 02.02	2. Concrete base slabs	m	4		
	DA 02.03	3. Clean around borehole	No	3		
	DA 02.04	4. Removal of concrete base slab	m	4		
	DA 02.05	5. Painting of exposed pipework	m	6		
CARRIE	D FORWAR	RD	-	-	-	



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGHT FORWARD						
6.3	DA.03	Repair/repacement of electrical equipment				
	DA 03.01	1. Detailed inspection and testing of components				
		.01 Borehole submersible pump and pipe work	No	3		
	DA 03.02	2. Commissioning of submersible pumping equipment				
		.01Borehole submersible pump and pipe work	No	3		
	DA 03.03	3. Reconditioning of pumping equipment				
		.01Borehole submersible pump and pipe worlt	No	3		
	DA 03.04	4. Repair of pumping equipment				
		.01Borehole submersible pump and pipe wor1<	No	3		
	DA 03.05	5. Decommissioning and removal of submersible pumping equipment				
		.01Borehole submersible pump and pipe work	No	3		
	DA 03.06	6. Servicing of submersible borehole pumps				
		.01 Borehole submersible pump and pipe work	No	3		
6.4	DA 04.D1	Supply and delivery of submersible borehole pumps				
	DA 04.01	01 Borehole submersible pump with duty points:				
		1 Borehole submersible pump capable of pumping 5t/second and maximum 140m total head	No	1		
	DA 04.02	.02 Installation of submersible, borehole pumps:				
CARRIE	CARRIED FORWARD					



TEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH						
		.01Borehole submersible pump capable of pumping 5t/second and maximum 140m total head	No	1		
	DA 04 03	.03 Supply, deliver andinstall rising pipe (75 mm diameter and pressure class 16)	No	2		
	DA 04.04	.04 Remove existing equipment from borehole and store on site as directed by the Engineer	No	1		
6.5	DA 05.01	Supply and delivery of submersible progressing cavity pumping equipment:				
		.01 Pump unit	No	1		
		.02 Pulley head and base frame	No	1		
		.03 Rising pipe	m	12		
		.04 Rising pump shaft	m	12		
6.7	DA05.02	Installation of submersible progressingcavity pumping equipment				
		.1 Pump unit	No	1		
		.2 Pulley head and base frame	m	1		
		.03 Rising pipe	m	12		
		.04 Rising pump shaft	m	12		
6.8	DA.06	Borehole structures				
	DA 06.01	.01 Clear area around borehole	m•	30		
	DA 06.02	.02 Removal of concrete bas. Slab	m•	2		
	DA 06.03	.03 Laying of concrete base slabs	m•	3		
	DA 06.04	.04 Brickwork	m•	5		
	DA 06.05	.05 Repair of existing steel cover	No	2		
	D FORWAR					



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA					
	DA 06.06	.06 Supply, deliver and install new borehole enclosure complete with roof and floor	No	1		
	DA 06.07	.07 Painting of exposed pipe work.	m	50		
6.8.1	08.01	Drilling of borehole	m	65		
6.8.2	DB.02	Borehole casing				
	DB 02.01	.01 Supply and Install steel casing 165mm dia.	m	20		
	08 02.02	.02 Supply and install casing shoe	m	2		
	08 02.03	.02 Supply and install casing shoe	Item	20		
	08 02.04	.03 Supply and Install uPVC casing	m	30		
6.8.3	OB.03	Recovery of steel casing	m	10		
6.9		CORRECTIVE MAINTENANCE TO EXISTING BOREHOLES				
		1. Rehabilitation of existing boreholes	No	3		
		2. Supply and install steel casing 165mm dia.	No	20		
		3. Supply and Install casing shoe	No	1		
		4. Supply and install uPVC casing	m	20		
		5. Supply and install perforated casing 165mm dia.	No	30		
		6. Rehabilltation of existing boreholes	m	50		
6.10		BOREHOLE PIPE WORK				
6.10.1	SANS 1200 L	Supply andinstall pipes, valves, fittings and specials:				
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG						
		1. 25mm ball valve with plastic coated plated steel lever and 2"(50mm) female connections	No	2		
		25mmdouble orifice air valve I pump protector with No 2 bias mechanism	No	2		
		 20mm ball valve with plastic coated plated steel lever and 2• fema e connections 	No	2		
		 20mm pressure Gauge 0-1000 kPa with large scale and stainless steelhousing 	No	2		
		5. 80mm dia.flanged bulk water meter, flow rates between 0.15 m3/h and 100 m3/h, 6 figure dlsplay and epoxy powder coated body and cover for sizes 40mm to 125mm, pressure of 16 bar	No	2		
		80mm dia. flanged resilient sealgate valve with wheel handle	No	2		
		7. 80mm dia.standard castiron flange adaptor from BOmm GMS to 75mm HOPE	No	6		
	SANS 1200 L	.02 Supply andinstall pipes, valves, fittings and specials as Der borehole Dioe and fittinas				
		1. Pipe fitting 1:Borehole base plate	No	2		
		2. Pipe fitting 2: flanged T with couplings	No	2		
		3. Pipe fitting 3:flanged 1m section	No	3		
		4. Pipe fitting 4:flanged elbow	No	2		
6.10.3	SANS 1200 L	Supply,lay and bed pipes complete with couplings, includ ng testing:				
		01 32mm dia. HOPE PE100 Class 10 pipe, jointed with Plasson high compression fittings	m	20		
CARRIED FORWARD						


ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	TO		UNIT	QII	KATE	AMOONT
BROUGI	HT FORWA	RD	1			
		02 75mm dia. HOPE PE100 Class 10 pipe, jointed with Plasson high compression fittings	m	13		
6.11	SANS 120008	EXCAVATIONS				
		Excavatein all materials for trenches,backfill, compact, and dispose of surplus/unsuitable material, for the following pipediameters for total trench depths:				
6.11.1		.01 Not exceeding 1m deep x 600mm wide	m	2		
		.02 Extra-over item 502.01.01 for:				
		1. Intermediate Excavation	m³	2		
		2. Hard rock excavation	m³	1		
		.03 Excavation ancillaries	m³	1		
		1. Compaction in road reserves	m³	1		
		.04 Re-instate road surfaces complete with all courses				
		1. Gravel on shoulders	m²	1		
		2. Asphalt of 30mm thickness In roadway	m²	1		
6.11.2	SANS 1200 LB	Provision of bedding from trench excavations:				
		01 300mm x 600mm bedding of selected granular material	ma	1		
		02 Pipe fitting 2: flanged T with oouplings	No	5		
		03 Pipe fitting 3: flanged 1m section	No	1		
		04 Pipe fitting 4:flanged elbow	No	2		
6.11.3	SANS 1200 LB	Supply only of bedding from borrow pits: 01 300mm x 600mm bedding of selected granular				
	D FORWAF	m3 1 material	m³	1		





BROUGHT 6.12	TO T FORWA	RD			
c		DOSING EQUIPMENT			
		01 Decommissioning and removal of dosing equipment	No	1	
C	OF 06.01	02 Service dosing equipment	No	1	
c		01 Installation,testing and commissioning of dosing equipment	No	1	
c	OF 06.03	01 Installation,testing and commissioning of dosing equipment	No	1	
6.13		OPERATION OF POTABLE WATER WORKS			
C	OH09.07	01 Replace all rusted cable racks	sum	1	
D	OH 09.08	.02 Provide andinstall pipe supports	sum	1	
ſ	DH09.09	.03 Replace temporary repairs on Reverse Osmosis (RO) plant	sum	1	
ſ	DH09.10	.04 Replace all damaged or faded safety signs	sum	1	
C	DH 09.11	.05 Repair corrosion on elevated steel tanks	sum	1	
6.14		CHLORINATION			
6.14.1 D	DL 08.01	Supply and delivery of chlorination systems:			
		01 Dosing pump (6 bar, 2.7Vh) with PVC head and electronic control panel and wait bracket to mount pump with Installation kit including injection nozzle, suction foot valve,10 m dosing hose and pressure relief valve	No	1	
		02 31& Chemical supply tank on 600 mm x 600 mm x 300mm raised Platform including plumbing Into supply tank and drainwithin 10m	No	1	
		03 Signal cable with plug for connecting into pump from water meter and electricalwiring with reed switch pulse sensor	No	1	
6.14.2 [[]	DL 08.02	Installation, testing and commissioning of chlorination systems:			





ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
		01 Complete system with dosing pump, tank and all fittings and accessories	No	2		
6.15		CLEAR-WATER PUMP SYSTEM				
	FN11.01	Supply and delivery of pumping equipment				
		.01 Pump and motor (Similar to exiting)	No	2		
		.02 Electrical power cable	No	2		
	FN11.02	Installation,testing and commissioning of pumping equipment	No	2		
	FN11.03	Decommissioning and removal of pumping equipment	No	2		
	FN11.04	Recond tioning of pumping equipment	No	2		
	FN11.05	Repair of pumping equipment	No	2		
6.16	FN11.06	Supply,Installation, testing and commissioning of MCC boards or other electricity boards:				
		01 Motor control centre to operate at least a 3 kW No.1 submersible pump with a pressure switch for automatic mode and manual operation on demand. Fitted on two 65mm diameter GMS support poles @ 1.Sm.Refer to technical specification FN 08.05 & FN 08.05.01	No	1		
6.17	FN11.07	Decommission,recondition,test and commission MCC boards or other electricity boards:				
		.01 Motor control centre for borehole pump	No	1		
	FN11.08	Compilation of wiring diagrams	No	1		
	FN11.09	Reconditioning of telemetric systems	No	1		
6.18		BULK WATER SUPPLY				
6.18.1	EK 07.01	Supply and delivery of water meters, gate valves, air release valves, non-returnvalves and sluice gates:				
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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	HT FORWA					
		01 50mm double orifice air release valve 02 50mm non-return valve	No No	1		
		03 50mm flanged resilient seal gate valve	No	1		
		04 110mm water meter	No	1		
6.19	EK 07.02	Installation,testing and commissioning of water meters, gate valves,air release valves,non-return valves and sluice gates:				
		.1 50mm double orifice air release valve	No	1		
		.2 50mm non-return valve	No	1		
		.3 80mm non-return valve	No	1		
		.4 110mm hydrauHc float control valve	No	1		
		.5 110mm water meter	No	1		
		.6 50mm gate valve .7 80mm gate valve	No No	1		
		.7 commigate valve .8 100mm gate valve	No	1		
		.9 150mm gate valve	No	1		
6.20	EK 07.03	Service water meters, gate valves, air release valves, non-return valves and sluice gates:				
		.1 50mm double orifice air release valve	No	1		
		.2 50mm non-return valve	No	1		
		.3 80mm non-return valve	No	1		
		.4 110mm hydraulic float control valve	No	1		
		.5 110mm water meter	No	1		
0.155		.6 50mm gate valve	No	1		
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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	HT FORWA	RD				
		.7 80mm gate valve.8 100mm gate valve	No No	1 1		
6.21	EK 07.04	Recondition of water meters, gate valves, air release valves, non-return valves and sluice gates:				
		.1 50mm dooble orifice air release valve	No	1		
		.2 50mm non-return valve	No	1		
		.3 80mm non-return valve	No	1		
		.04 110mm hydraulic float control valve	No	1		
		.5 110mm water meter	No	1		
		.6 50mm gate valve	No	1		
		.7 80mm gate valve	No	1		
		.8 100mm gate valve	No	1		
		.9 150mm gate valve	No	1		
6.22		Decommission and remove water meters, gate valves, air release valves, non-return valves and sluice aates:				
		.1 50mm double orifice air release valve	No	1		
		.2 50mm non-return valve	No	1		
		.3 80mm non-return valve	No	1		
		.4 110mm hydraulic float control valve	No	1		
		.5 110mm water meter	No	1		
		.6 50mm gate valve	No	1		
		.7 80mm gate valve	No	1		
CARRIE		.8 100mm gate valve	No	1		



public works	
& infrastructure	
Department:	
Public Works and In	frastructure
REPUBLIC OF	SOUTH AFRICA

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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	HT FORWA	RD				
		.9 150mm gate valve	No	1		
6.23		WATER DISTRIBUTION NETWORKS				
6.23.1	CE.01	Water distribution pipelines:				
	CE.01.01	.01 Repair of existing pipelines:				
		.1 Distribution pipes	m	10		
		.2 House connections	m	50		
		.3 Irrigation pipes	m	50		
	CE.01.02	.02 Provision of materials for repair of existing:				
		.1 uPVC class 12 pressure pipes to SANS 966 withIntegral "LYNG" mechanical rubber ring joints:				
		.01 75 mm dia.	m	50		
		.02 110 mm dia.	m	50		
		.03 160 mm dia.	m	50		
		.2 Galvanised mild steel (GMS) medium duty quality pipes to SANS 62 with flanged couplings. Normalised pipes:				
		.01 75 mm dia.	m	50		
		.02 110 mm dia.	m	50		
		.03 160 mm dia.	m	50		
		.3 HOPE - PE100 Class 10 pressure pipes, 1\$0 4427:				
		.1 32 mm dia.	m	50		
		.2 50 mm dia.	m	50		
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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGI	HT FORWA	RD				
6.23.2	CE.01.02	.04 Saddles with standard drilling and 25 mm BSP tapping for connections to supply lines:				
		.1 110 mm dia.	No	10		
		.2 160 mm dia.	No	5		
		.05 Standard bends of all degrees and all types completely fitted in pipes of all types with Inside diameters of:				
		.1 between 39 mm and 55 mm	No	3		
		.2 between 55 mm and 76 mm	No	3		
		.3 between 76 mm and 99 mm	No	3		
		.4 between 99 mm and 130 mm	No	3		
		.5 between 130 mm and 180 mm	No	3		
		.06 Standard equal tees, reducing tees (largest connection pipedetennine payment classification) and cross pieces of all types completely fittedin pipes of all types with Inside diameters of:				
		.1 between 39 mm and 55 mm	No	3		
		.2 between 55 mm and 76 mm	No	3		
		.3 between 76 mm and 99 mm	No	3		
		.4 between 99 mm and 130 mm	No	3		
		.7 Standard reducers (largest connection pipe determine payment classification)of all types completely fitted in pipes of all types with Inside diameters of:				
		.1 between 55 mm and 76 mm	No	3		
		.2 between 76 mm and 99 mm	No	3		
		.3 between 99 mm and 130 mm	No	3		
CARRIE	D FORWAF	RD				





THE PARTY OF	REPUBLIC OF	SOUTH AFRICA				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
		.8 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:				
		.1 between 76 mm and 99 mm	No	3		
		.2 between 99 mm and 130 mm	No	3		
		.3 between 130 mm and 180 mm	No	3		
		.9 Sprinklers,completely fitted:				
		.1 micro sprinklers with supports and complete with connection to supply pipe	No	6		
		.2 rotational retractable type	No	6		
	CE.01.03	.03 Replacement of manhole covers, gridinlets and the like:				
		.1 SANS 558 Type 88 - Medium duty class size 600 x 600mm square manhole cover and frame, double sealed type	No	1		
		.2 SANS 558 Type 9A - Light duty class size 600 x 600mm square manhole cover and frame, single sealed type	No	1		
		.3 SANS 558 Type 9E - Light duty class size 900 x 600mm rectangular manhole cover and frame,single sealed type	No	1		
	CE.01.04	.03 Repair of corrosion protection for pipes and fittings with diameters of:				
		.01 Up to 100 mm dia	m	50		
		.02 101 to 200 mm dia	m	50		
	CE.01.05	New Pipelines:Preparation and Finishig				
		.01 Up to 100 mm dia	m	50		
		.02 101 to 200 mm dla	m	50		
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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
6.23.3	CE.03.01	Cleaning of pipeline				
		.01 Cleaning of deposits in pipeline by mechanical means for pipes of diameters of:				
		.01 Up to 100 mm dia	m	50		
	CE.03.02	.02 Scouring of pipeline to remove trapped debris for pipes of diameters of:				
		.01 Up to 100 mm dia	m	50		
		.02 101 to 200 mm dia	m	50		
6.23.4	CE.04	Repair of fittings	No	10		
	CE.04.01	.01 Servicing of fittings	No	10		
	CE.04.02	.02 Replace pipe fittings	110	10		
	CE.04.03	.03 Repair of house connections	No	10		
6.23.5	CE.05	Repair of structures				
	CE.05.01	.01 Demolition and removal of damaged existing structures				
		.1 Plain Concrete	m³	3		
		.2 Reinforced Concrete	m³	2		
		.3 Brickwork	m²	15		
		.4 Precast concrete manhole sections	No	2		
	CE.05.02	.02 Cleaning of existing manholes,chambers and other structures:	m'	5		
	CE.05.03	.03 Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)				
		.01 Excavated material to spoil	m³-km	12		
CARRIE	D FORWAR	RD	1			





ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGI	HT FORWA	RD				
		.02 Exisiting structures demolished Repair of ght structures	m³-km	12		
6.23.4	CE.05.04	.04 Repair of structures				
		.01 Brickwork	m²	25		
		.02 Concrete	m³	3		
		.03 Precast concrete manhole sections	No	2		
	CE.05.05	.05 Marker Posts	No	5		
	CE.05.06	.06 Sample Testing :Extract sample to determine lime deposition, corrosion and general condition for pipes of:				
		.01 Up to 100 mm dia	No	3		
		.02 101 to 200 mm dla	No	3		
	CE.05.07	.07 New structures				
		.01 Precast concrete manhole sections				
	CE.06	Tests and inspection of repair work				
	CE.06.01	.01 Pressure test pipel ne in sections of pipes with diameters of:				
		.01 Up to 100 mm dia	m	150		
		.02 101to 200 mm dia	m	150		
	CE.06.02	.02 Provision of equipment for visual inspection of underground plpeline network	Sum	1		
	CE.06.03	.03 CCTV Inspection of underground pipework				
		.01 Up to 300 mm dia	m	150		
		.02 301 to 600 mm dia	m	150		
	CE.07	Locate and connect into the exisitng water network				
CARRIE	D FORWAR	RD		<u> </u>]		



public works & infrastructure Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
		.01 Locate and connect into the existing water network pipeline	No	60		
	CE.05.04	Repair of pipe fittings:				
		.01 Pipe fitting 2: flanged T with couplings	No	1		
		.02 Pipe fitting 3: flanged 1m section	No	1		
	CE.05.04	.03 Pipe fitting 4: flanged elbow				
		04 80 mm dia water meter, withintegrated strainer	No	1		
	CE.05.04	Supply and Install valve box cover:				
		.01 50 mm dia water meter	No	1		
		.02 80 mm dia water meter	No	1		
6.24		OPERATING AND MAINTENANCE MANUALS:				
6.24.1	SB.01	Compile and supply a complete set of operating and maintenance manuals:				
		Bulk water supply system including boreholes: update existing 0 & M manual	sum	1		
6.25		RECOVERED STEEL/PLASTIC TANKS				
6.25.1	SANS1200	Site clearance and grubbing:				
	8.2.1·	.01 Clear and grub	m'	25		
	8.3.2 (a)	Excavation:				
		.01 Excavate in all materials and use for backfill:				
		1. Foundation for tank	ms	3		
	8.3.2 (a)	.02 ExcavateIn all materials and dispose of within 1km from site	ma	3		
	8.3.2 (a)	.03 Importation of materials:				
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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGI	HT FORWA	ARD				
		.01 Extra over for imporation of GS material from borrow pit within 10 km from site	ms	2		
6.25.2	SANS 1200G	Formwork:				
	8.2.1	.01 Vertical.rough	m²	1		
6.25.3		Reinforcement:				
	8.3.1	.01 High tensile steel	kg	75		
	8.3.2	.02 Mesh 245	kg	75		
6.25.4	8A.3	Structural concrete:				
		.01 Class 25 Mpa, 25mm concrete :				
		1. Foundation for 49kl elevated tank	mi	3		
6.25.5	PCI 02	Lightning protection for storage tank:				
		.01 Recovered plastic/steel tanks and stand	sum	1		
6.25.6	PCI 03	Sterelization of storage tank:				
		.01 Recovered plastic/steel tank	No	1		
6.25.7	PCI.04	Testing for water tightness of storage tank:				
		.01 Recovered plastic/steel tank	No	1		
6.25.8	PCJ.06	Installationof hydraulic operated floater control valve:				
		.01 50mm angle type	No	1		
6.25.9		Decommission and remove existingplastic water tanks and steel structure and keep safe on site	sum	1		
6.25.10		Move and re-install existing plastic water tanks and steel structure	sum	1		
CARRIE	D FORWA	RD TO SCHEDULE RC.4				



COLUMN DE LA	ILLI OBLIO OI	SOUTH AFRICA				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
RC5		RC.5 - WASTEWATER TREATMENT WORKS AND SEWER NETWORKS AT MAHAMBA PORT OF ENTRY				
5.1		WASTEWATER INLET WORKS/CHAMBERS/SEPTIC TANK				
5.1.1	EA.01	Service and re-installation of flow sensor equipment	sum	2		
		01 Installation, testing and commissioning of flow sensor equipment.	No	1		
5.1.2	EA.02	Supply and delivery of Data Logger	sum	1		
5.1.3	EA.03	Painting and corrosion protection to with stand wastewater corrosion conditions	sum	1		
5.1.4	EA .04	Procurement and rep acement of all hinges and cover plates and painting of winch for hosting screens equipment paint	sum	1		
5.1.5	EA.05	Repair of biological reactor	sum	1		
5.1.6	EA.06	Repair of clarifier	sum	1		
5.2		WASTEWATER PUMP SYSTEM/STATION				
5.2.1	EB.01	Supply and delivery of pumping equipment				
		.01 Pump and motor	No	1		
5.2.2	EB.02	Installation,testing and commissioning of pumping equipment:				
		.01 Pump and motor	No	2		
5.2.3	ES.03	Decommissioning and removal of pumping equipment:				
		.01 Pump and motor	No	2		
	EB.04	Reconditioning of pumping equipment:				
		.01 Pump and motor	No	3		
CARRIE	D FORWAF	RD				



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ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
5.2.5	EB.O5	Repair of pumping equipment				
		.01 Pump and motor	No	3		
5.2.6	EB.06	Servicing of pumping equipment				
		.01 Pump and motor	No	1		
5.2.7	EB.06	Installation,testing and commissioning of existing pumping equipment:	No	1		
		.01 Pump and motor	NO			
5.2.8	EB.07	Replace, testing and commissioning of float evel switches and equipment	No	1		
5.2.9	EB.08	Pumping out,cleaning and reconditioning of wastewater pump sumps and relatedInfrastructure	No	2		
5.2.10	EB.09	Painting and corrosion protection of the wastewater pump system and all other corroded steel components to withstandwastewater corosive conditions	No	1		
5.2.11	EB.09	Reconditioning of MCC boards or other electricity boards	No	1		
5.2.12	EB.10	Replace MCC enclosure	No	1		
5.2.13	EB.11	Supply,installation, testing and commissioning of MCC boards or other electricity boards	No	1		
5.2.14	EB.12	Supply,Installation, testing and commissioning of mechanical equipment				
		.01 Existing blowers (or similar)	No	1		
5.3		FLOW MEASURING EQUIPMENT				
5.3.1	EB.13	Decommissioning,servicing, testing,re- commissioning and calibration of existingflow measuring equipment:				
CARRIE	D FORWA	RD				





CHANNA CAN		SOUTH AFRICA	1			
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	HT FORWA	RD				
		.1 Ultrasonic open channel flow meter with transducer and totalizer, Including all cables, fixtures and appurtenances	No	1		
		.2 Existing Krohne Electromagnetic flow meters- existing Optiflux 2000 Sensor	No	1		
5.4	SAB 1200 G	CONCRETE REPAIR				
		 Scabble surface removing all loose and suspect material taking care not to damage the existing reinforcing 	m²	80		
		2. Apply a 30mm thick approved single-component polymer modified, cementitious repair mortar to existing concrete wastewater retaining structures	m²	40		
5.5	BK.03	MOVEMENT JOINTS				
		.01 Single component fast curing polyurethane joint sealer suitable for wastewater retaining structures	m	20		
5.6	BK.03.05	EXPANSION JOINT REPAIR PROCEDURE				
		.01 Remove allloose and defective joint material andclean around affected area to prepare the surface for the new material by means of, grinding followed by brooming and vacuuming	m	20		
		.02 High performance joint and crack seal ng system,consisting of an eJastomeric, 200m wide x 2mm thick. seal ng strip and hixotropic epoxy adhesive	m	20		
5.7		VALVES				
		Supply and delivery of gate valves, air release valves, non-returnvalves and sluice gates				
		.1 50mm double orifice air release valve	No	1		
		.2 80mm non-return valve	No	1		
0455		.3 80mm gate valve	No	1		
CARRIE	D FORWAF	(U				





THE PRANTS CAL	KEP ODEIC OF	SOUTH AFRICA				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGI	HT FORWA	RD				
		.01 50mm double orifice air release valve	No	1		
		.02 80mm non-return valve	No	1		
		.03 80mm gate valve	No	1		
		.04 100mm gate valve	No	1		
5.9	EK07.03	Service gate valves, air release valves, non-return valves and sluice gates				
		.1 50mm double orifice air release valve	No	1		
		.2 80mm non-return valve	No	1		
		.3 80mm gate valve	No	1		
		.4 100mm gate valve	No	1		
5.10	EK 07.05	Decommissioning and remove gate valves, non- return valves air release valves and sluice gates:				
		.1 50mm double orifice air release valve	No	1		
		.2 80mm non-return valve	No	1		
		.3 80mm gate valve	No No	1 1		
		.4 100mm gate valve				
5.11		OPERATING AND MAINTENANCE MANUALS				
5.11.1	SB.01	Compile and supply a complete set of operating and maintenance manuals:				
		.1 Wastewater treatment works:update existing O & M manual				
5.11.2	SB.02	Compile and supply a complete site plan				
5.12		GENERAL DECOMMISSIONING, TESTING AND COMMISS ONING PROCEDURES				
CARRIE	D FORWAF	RD				



public works & infrastructure Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

	DAMAZNE		1			1				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT				
BROUGH	BROUGHT FORWARD									
5.12.1	SC.01	Decommissioning and removing parts of the installation	sum	1						
5.12.2	SC.02	Commissioning and testing of parts of the installation	sum	1						
5.12.3	SC.03	Commissioning and testing of the installation:								
		.01 Entire wastewater treatment works system	sum	1						
5.12.4	SC.04	Provision for safety and hot work requirements during shutdown	No	1						
5.12.5		Commissioning and testing of the installation:								
		.01Entire wastewater treatment works system:								
	EA.01	.01Service flow meter	sum	1						
	EA.02	.02 Supply and delivery of Data Logger	No	1						
	EA.03	.03 Supply and Installation,testing and commission of screenings draining plate	No	2						
	EA.04	.04 Decommissioning and removal of Rag Catcher	sum	1						
	EA.05	.05 Supply and Installation of a new Rag-Catcher	sum	1						
CARRIE	D FORWAR	RD TO SCHEDULE RC.5								



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

CIVIL REPAIR WORKS SUMMARY PAGE

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

 SCHEDULE NO 2.1: INSTALLATION C1:

 STRUCTURAL AND BUILDING

 SCHEDULE NO 2.2: INSTALLATION C2:

 PLUMBING, DRAINAGE AND WET SERVICES

 SCHEDULE NO 2.3: INSTALLATION RC3:

 FENCING, CLEANING AND SITE KEEPING

 SCHEDULE NO 2.4: INSTALLATION RC4:

 BULK WATER SUPPLY SYSTEMS AND

 EXTERNAL WATER NETWORKS

 SCHEDULE NO 2.5: INSTALLATION RC5:

 WASTEWATER TREATMENT WORKS AND

 SEWER NETWORKS

SECTION TOTAL CARRIED FORWARD



DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILL OF QUANTITIES ELECTRICAL REPAIR WORK

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

			CONTRACTOR				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
ER1.1		ER 1.1 MAHAMBA - INTERNAL BUILDING ELECTRICAL REPAIR WORK					
1		DISTRIBUTION BOARDS (DB)					
1.1		Repair distribution boards					
		a) Flush mounted DB(±450 x 400mm)	No	20			
		b) Flush mounted DB(±300 x 200mm)	No	15			
		c) Surface mounted DB(±400 x 300mm)	No	15			
		d) Surface mounted DB(±200 x 200mm)	No	18			
1.2		Replace distribution boards which can not be repaired (SABS Approved)					
		a) Flush mounted DB(±450 x 400mm)	No	6			
		b) Flush mounted DB(±300 x 200mm)	No	5			
		c) Surface mounted DB(±400 x 300mm)	No	5			
		d) Surface mounted DB(±200 x 200mm)	No	5			
1.3		Repair circuit breakers					
		a) 10 - 40A, 6KA single pole	No	20			
		b) 40 - 60A, 6KA single pole	No	20			
		c) 10 - 40A, 6KA triple pole	No	20			
CARRIE	D FORWAR	RD					



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
1.4		Replace circuit breakers which can not be repaired (SABS Approved)				
		a) 10 - 40A, 6KA single pole	No	6		
		b) 40 - 60A, 6KA single pole	No	6		
		c) 10 - 40A, 6KA triple pole	No	6		
1.5		Repair isolators				
		60A, 6KA double pole	No	20		
1.6		Replace isolators which can not be repaired(SABS Approved)				
		60A, 6KA double pole	No	6		
1.7		Repair contactors				
		a) 10 - 30A, triple pole	No	20		
1.8		Replace contactors which can not be repaired (SABS Approved)				
		a) 10 - 30A, triple pole	No	6		
1.9		Repair switching timers				
		a) Electronic timer with 24hr time reserve	No	20		
1.10		Replace switching timers which can not be repaired (SABS Approved)				
		a) Electronic timer with 24hr time reserve	No	6		
1.11		Replace earth leakage units which can not be repaired (SABS Approved)				
		a) 60A, 5KA double pole	No	20		
1.12		Replace surge arrestors which can not be repaired (SABS Approved)				
		a) Single Pole and neutral 275V 5KA	No	20		



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		b) Triple Pole and neutral 275V 5KA	No	20		
2		LOW VOLTAGE CABLE INSTALLATIONS				
2.1		Replace cabling				
		a) 16mm ² x 3 - core PVC/SWA/PVC Cu	m	150		
		b) 10mm ² x 3 - core PVC/SWA/PVC Cu	m	250		
2.2		Termination of low voltage cable				
		a) 16mm ² x 3 - core PVC/SWA/PVC Cu	m	50		
		b) 10mm ² x 3 - core PVC/SWA/PVC Cu	m	50		
3		WIRING				
3.1		Replace wiring				
		a) 2.5mm ² PVC insulated	m	100		
		b) 4mm ² PVC insulated	m	100		
		c) 6mm ² PVC insulated	m	100		
		d) 2.5mm ² BCEW	m	100		
		e) 4mm ² BCEW	m	100		
		f) 6mm ² BCEW	m	100		
4		LIGHTING INSTALLATION				
4.1		Repair luminaire				
		a) 58W fluorescent	No	167		
		b) 36W fluorescent	No	167		
		c) 70W HPS pole light	No	60		
	D FORWAF	D				
						<u> </u>



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		d) 40W energy saver	No	90		
		e) 26W bulkhead light	No	90		
		f) 60W security light	No	40		
4.2		Replace luminaire which can not be repaired (SABS Approved)				
		a) 58W fluorescent	No	167		
		b) 36W fluorescent	No	167		
		c) 70W HPS pole light	No	60		
		d) 40W energy saver	No	90		
		e) 26W bulkhead light	No	90		
		f) 60W security light	No	40		
4.3		Repair light switch				
		a) 16A, one lever, one way	No	85		
		b) 16A, two lever, one way	No	40		
		c) Replace light switch which cannot be repaired	No	11		
4.4		Replace photo-electric switch				
		a) 16A unit with bracket and mounted fitting	No	25		
5		POWER OUTLETS				
5.1		Repair socket outlets				
		a) 16A, single SSO	No	100		
		b) 16A, double SSO	No	100		
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		c) 16A, single SSO power skirting (Mounted)	No	100		
		d) 16A, dedicated SSO power skirting (Mounted)	No	100		
5.2		Replace socket outlets which can not be repaired (SABS Approved)				
		a) 16A, single SSO	No	30		
		b) 16A, double SSO	No	30		
		c) 16A, single SSO power skirting (Mounted)	No	30		
		d) 16A, dedicated SSO power skirting (Mounted)	No	30		
5.3		Repair isolators				
		a) 16A, double pole	No	20		
		b) 30A, double pole	No	30		
		c) 20A, double pole	No	20		
5.4		Replace isolators which can not be repaired (SABS Approved)				
		a) 16A, double pole	No	20		
		b) 30A, double pole	No	30		
		c) 20A, double pole	No	20		
6		FIXED APPLIANCE AND COMPONENTS				
6.1		Replace geyser components which can not be repaired (SABS Approved)				
		a) Domestic geyser element	No	20		
		b) Domestic geyser thermostat	No	20		
	D FORWAF	c) Replace complete geyser	No	20		



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
6.2		Replace domestic stove components which can not be repaired (SABS Approved)				
		a) 150 - 160 dia solid plate	No	32		
		b) 170 - 190 dia solid plate	No	32		
		c) 200 - 220 dia solid plate	No	32		
		d) Five/ six heat switch	No	32		
		e) Oven bottom element	No	32		
		f) Oven top element	No	32		
6.3		Repair/replace hydro boils				
		a) Hydro boil element	No	10		
		 b) Replace hydro boil which cannot be repaired 	No	10		
7		CONDUITS AND ACCESSORIES				
7.1		Replace conduit which can not be repaired (SABS Approved)				
		a) 20mm dia Galvanised steel	m	500		
		b) 20mm dia PVC	m	500		
7.2		Replace outlet boxes with cover plates which can not be repaired (SABS Approved)				
		a) 100 x 50 Galvanised steel	No	10		
		b) 100 x 100 Galvanised steel	No	20		
		c) 50 x 100 white enamel extension box	No	20		
		d) 100 x 100 white enamel extension box	No	20		
CARRIE	D FORWAR	D				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		e) Circular (20mm)	No	25		
8		CERTIFICATION				
		Provide Certificate of Compliance for all buildings (68 No.Off)	Sum	1		
0.4.75						
CARRIE	D FORWAF	RD TO SCHEDULE ER 1.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER1.2		ER 1.2 MAHAMBA - EXTERNAL BUILDING ELECTRICAL REPAIR WORK				
1		AREA LIGHTING SYSTEM - CONTROL AREA				
1.1		Repair luminaire				
		a) 250W HPSE Streetlight	No	40		
1.2		Replace luminaire which can not be repaired (SABS Approved)				
		a) 250W HPSE Streetlight	No	40		
1.3		Repair area light pole				
		a) On site area light poles	No	40		
1.4		Replace area light poles which can not be repaired (SABS Approved)				
		a) On site area light poles (9m fibreglass)	No	20		
1.5		Repair Distribution Kiosk or DB				
		a) Ground mounted	No	15		
1.6		Replace padlocks which can not be repaired (SABS Approved)				
		a) 75mm padlocks	No	60		
		RD TO SCHEDULE ER 1.2				
		AD TO BUILDULE EN 1.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER1.3		ER 1.3 MAHAMBA - STANDBY POWER REPAIR WORK				
1		STANDBY INSTALLATIONS				
1.1		Mandatory periodical services not included in the preventative maintenance items				
		a) Clean and repair genset plant room	No	1		
		b) Service 150kVA genset	No	1		
		c) Service Deutsz diesel engine	No	1		
		d) Supply diesel fuel when empty	L	6000		
2		GENERATOR				
2.1		Replace starter battery	No	1		
2.2		Repair generator control panel				
		a) Repair generator control panel	No	1		
		b) Replace the control panel which cannot be repaired	No	1		
2.3		Supply and install missing padlocks	No	2		
2.4		Replace fuel water separator which can not be repaired (SABS Approved)	No	1		
3		UPS				
3.1		Replace batteries	No	24		
3.2		Provide full service of 15kVA UPS according to manufacturer's specifications (Annually)	No	1		
CARRIEI	D FORWAF	RD TO SCHEDULE ER1.3				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER2.1		<u>ER 2.1 EMAHLATHINI - INTERNAL BUILDING</u> ELECTRICAL REPAIR WORK				
1		DISTRIBUTION BOARDS (DB)				
1.1		Repair distribution boards				
		a) Flush mounted DB(±450 x 400mm)	No	9		
		b) Flush mounted DB(±300 x 200mm)	No	6		
		c) Surface mounted DB(±400 x 300mm)	No	9		
		d) Surface mounted DB(±200 x 200mm)	No	5		
1.2		Replace distribution boards which can not be repaired (SABS Approved)				
		a) Flush mounted DB(±450 x 400mm)	No	3		
		b) Flush mounted DB(±300 x 200mm)	No	2		
		c) Surface mounted DB(±400 x 300mm)	No	3		
		d) Surface mounted DB(±200 x 200mm)	No	2		
1.3		Repair circuit breakers				
		a) 10 - 40A, 6KA single pole	No	20		
		b) 40 - 60A, 6KA single pole	No	10		
		c) 10 - 40A, 6KA triple pole	No	10		
1.4		Replace circuit breakers which can not be repaired (SABS Approved)				
		a) 10 - 40A, 6KA single pole	No	6		
		b) 40 - 60A, 6KA single pole	No	3		
		c) 10 - 40A, 6KA triple pole	No	3		
CARRIEI	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
1.5		Repair isolators				
		60A, 6KA double pole	No	10		
1.6		Replace isolators which can not be repaired(SABS Approved)				
		60A, 6KA double pole	No	3		
1.7		Repair contactors				
		a) 10 - 30A, triple pole	No	10		
1.8		Replace contactors which can not be repaired (SABS Approved)				
		a) 10 - 30A, triple pole	No	3		
1.9		Repair switching timers				
		a) Electronic timer with 24hr time reserve	No	10		
1.10		Replace switching timers which can not be repaired (SABS Approved)				
		a) Electronic timer with 24hr time reserve	No	3		
1.11		Replace earth leakage units which can not be repaired (SABS Approved)				
		a) 60A, 5KA double pole	No	10		
1.12		Replace surge arrestors which can not be repaired (SABS Approved)				
		a) Single Pole and neutral 275V 5KA with indication	No	20		
		b) Triple Pole and neutral 275V 5KA with indication	No	10		
CARRIEI	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
2		LOW VOLTAGE CABLE INSTALLATIONS				
2.1		Replace cabling				
		a) 16mm ² x 3 - core PVC/SWA/PVC Cu	m	150		
		b) 10mm ² x 3 - core PVC/SWA/PVC Cu	m	100		
2.2		Termination of low voltage cable				
		a) 16mm ² x 3 - core PVC/SWA/PVC Cu	m	10		
		b) 10mm ² x 3 - core PVC/SWA/PVC Cu	m	10		
3		WIRING				
3.1		Replace wiring				
		a) 2.5mm ² PVC insulated	m	100		
		b) 4mm ² PVC insulated	m	100		
		c) 6mm ² PVC insulated	m	100		
		d) 2.5mm ² BCEW	m	100		
		e) 4mm ² BCEW	m	100		
		f) 6mm ² BCEW	m	100		
4		LIGHTING INSTALLATION				
4.1		Repair luminaire				
		a) 58W fluorescent	No	53		
		b) 36W fluorescent	No	53		
		c) 70W HPS pole light	No	14		
		d) 40W energy saver	No	23		
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		e) 26W bulkhead light	No	30		
		f) 60W security light	No	15		
4.2		Replace luminaire which can not be repaired (SABS Approved)				
		a) 58W fluorescent	No	53		
		b) 36W fluorescent	No	53		
		c) 70W HPS pole light	No	14		
		d) 40W energy saver	No	23		
		e) 26W bulkhead light	No	30		
		f) 60W security light	No	15		
4.3		Repair light switch				
		a) 16A, one lever, one way	No	50		
		b) 16A, two lever, one way	No	50		
		c) Replace light switch which cannot be repaired	No	50		
4.5		Replace photo-electric switch				
		a) 16A unit with bracket and mounted fitting	No	5		
5		POWER OUTLETS				
5.1		Repair socket outlets				
		a) 16A, single SSO	No	50		
		b) 16A, double SSO	No	50		
		c) 16A, single SSO power skirting (Mounted)	No	30		
CARRIEI	D FORWAF	D				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		d) 16A, dedicated SSO power skirting (Mounted)	No	50		
5.2		Replace socket outlets which can not be repaired (SABS Approved)				
		a) 16A, single SSO	No	15		
		b) 16A, double SSO	No	15		
		c) 16A, single SSO power skirting (Mounted)	No	9		
		d) 16A, dedicated SSO power skirting (Mounted)	No	15		
5.3		Repair isolators				
		a) 60A, double pole	No	10		
		b) 30A, double pole	No	10		
		c) 20A, double pole	No	10		
5.4		Replace isolators which can not be repaired (SABS Approved)				
		a) 60A, double pole	No	5		
		b) 30A, double pole	No	5		
		c) 20A, double pole	No	5		
6		FIXED APPLIANCE AND COMPONENTS				
6.1		Replace geyser components which can not be repaired (SABS Approved)				
		a) Domestic geyser element	No	5		
		b) Domestic geyser thermostat	No	5		
		c) Replace complete geyser	No	5		
CAKKIEL	D FORWAF					



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
6.2		Replace domestic stove components which can not be repaired (SABS Approved)				
		a) 150 - 160 dia solid plate	No	13		
		b) 170 - 190 dia solid plate	No	13		
		c) 200 - 220 dia solid plate	No	13		
		d) Five/ six heat switch	No	13		
		e) Oven bottom element	No	13		
		f) Oven top element	No	13		
6.3		Repair/replace hydro boils				
		a) hydro boil element	No	5		
		b) Replace hydro boil which cannot be repaired	No	5		
7		CONDUITS AND ACCESSORIES				
7.1		Replace conduit which can not be repaired (SABS Approved)				
		a) 20mm dia Galvanised steel	m	100		
		b) 20mm dia PVC	m	100		
7.2		Replace outlet boxes with cover plates which can not be repaired (SABS Approved)				
		a) 100 x 50 Galvanised steel	No	10		
		b) 100 x 100 Galvanised steel	No	10		
		c) 50 x 100 white enamel extension box	No	10		
		d) 100 x 100 white enamel extension box	No	10		
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		e) Circular (20mm)	No	10		
8		CERTIFICATION				
		Provide Certificate of Compliance for all buildings (26 No.Off)	Sum	1		
CARRIEI		RD TO SCHEDULE ER 2.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER2.2		ER 2.2 EMAHLATHINI - EXTERNAL BUILDING ELECTRICAL REPAIR WORK				
1		AREA LIGHTING SYSTEM - CONTROL AREA				
1.1		Repair luminaire				
		a) 250W HPSE Streetlight	No	40		
1.2		Replace luminaire which can not be repaired (SABS Approved)				
		a) 250W HPSE Streetlight	No	12		
1.3		Repair area light pole				
		a) On site area light poles	No	38		
1.4		Replace area light poles which can not be repaired (SABS Approved)				
		a) On site area light poles (9m fibreglass)	No	11		
1.5		Repair Distribution Kiosk or DB				
		a) Ground mounted	No	20		
1.6		Replace padlocks which can not be repaired (SABS Approved)				
		a) 75mm padlocks	No	50		
		RD TO SCHEDULE ER 2.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER2.3		<u>ER 2.3 EMAHLATHINI - STANDBY POWER</u> REPAIR WORK				
1		STANDBY INSTALLATIONS				
1.1		Mandatory periodical services not included in the preventative maintenance items				
		a) Clean and repair genset plant room	No	1		
		b) Service 60kVA genset	No	1		
		c) Service Deutsz diesel engine	No	1		
		d) Supply diesel fuel when empty	L	6000		
2		GENERATOR				
2.1		Replace starter battery	No	1		
2.2		Repair generator control panel				
		a) Repair generator control panel	No	1		
		b) Replace the control panel which cannot be repaired	No	1		
2.3		Supply and install missing padlocks	No	2		
2.4		Replace fuel water separator which can not be repaired (SABS Approved)	No	1		
3		UPS				
3.1		Replace batteries	No	24		
3.2		Provide full service of 15kVA UPS according to manufacturer's specifications (Annually)	No	1		
CARRIE	D FORWAF	RD TO SCHEDULE ER 2.3				


ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER3.1		ER 3.1 BOTHASHOOP - INTERNAL BUILDING ELECTRICAL REPAIR WORK				
1		DISTRIBUTION BOARDS (DB)				
1.1		Repair distribution boards				
		a) Flush mounted DB(±450 x 400mm)	No	1		
		b) Flush mounted DB(±300 x 200mm)	No	5		
		c) Surface mounted DB(±400 x 300mm)	No	7		
		d) Surface mounted DB(±200 x 200mm)	No	5		
1.2		Replace distribution boards which can not be repaired (SABS Approved)				
		a) Flush mounted DB(±450 x 400mm)	No	1		
		b) Flush mounted DB(±300 x 200mm)	No	2		
		c) Surface mounted DB(±400 x 300mm)	No	2		
		d) Surface mounted DB(±200 x 200mm)	No	2		
1.3		Repair circuit breakers				
		a) 10 - 40A, 6KA single pole	No	2		
		b) 40 - 60A, 6KA single pole	No	1		
		c) 10 - 40A, 6KA triple pole	No	1		
1.4		Replace circuit breakers which can not be repaired (SABS Approved)				
		a) 10 - 40A, 6KA single pole	No	1		
		b) 40 - 60A, 6KA single pole	No	1		
		c) 10 - 40A, 6KA triple pole	No	1		
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
1.5		Repair isolators				
		60A, 6KA double pole	No	1		
1.6		Replace isolators which can not be repaired (SABS Approved)				
		60A, 6KA double pole	No	1		
CARRIE	D FORWAR	RD TO SCHEDULE ER 3.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER3.2		ER 3.2 BOTHASHOOP - EXTERNAL BUILDING ELECTRICAL REPAIR WORK				
1		AREA LIGHTING SYSTEM - CONTROL AREA				
1.1		Repair luminaire				
		a) 250W HPSE Streetlight	No	34		
1.2		Replace luminaire which can not be repaired (SABS Approved)				
		a) 250W HPSE Streetlight	No	34		
1.3		Repair area light pole				
		a) On site area light poles	No	34		
1.4		Replace area light poles which can not be repaired (SABS Approved)				
		a) On site area light poles (9m fibreglass)	No	10		
1.5		Repair Distribution Kiosk or DB				
		a) Ground mounted	No	15		
1.6		Replace padlocks which can not be repaired (SABS Approved)				
		a) 75mm padlocks	No	30		
CARRIFI	D FORWAR	D TO SCHEDULE ER 3.2				
CARRIE		D TO SCHEDULE ER 3.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ER3.3		ER 3.3 BOTHASHOOP - STANDBY POWER REPAIR WORK				
1		STANDBY INSTALLATIONS				
1.1		Mandatory periodical services not included in the preventative maintenance items				
		a) Clean and repair genset plant room	No	1		
		b) Service 60kVA genset	No	1		
		c) Service Deutsz diesel engine	No	1		
		d) Supply diesel fuel when empty	L	6000		
2		<u>GENERATOR</u>				
2.1		Replace starter battery	No	1		
2.2		Repair generator control panel				
		a) Repair generator control panel	No	1		
		 b) Replace the control panel which cannot be repaired 	No	1		
2.3		Supply and install missing padlocks	No	2		
2.4		Replace fuel water separator which can not be repaired (SABS Approved)	No	1		
3		UPS				
3.1		Replace batteries	No	24		
3.2		Provide full service of 15kVA UPS according to manufacturer's specifications (Annually)	No	1		
CARRIEI	D FORWAF	RD TO SCHEDULE ER 3.3				



Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

ELECTRICAL REPAIR WORKS SUMMARY PAGE

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

	CONTRACTOR
SCHEDULE NO ER 1.1: MAHAMBA - INTERNAL BUILDING	
SCHEDULE NO ER 1.2: MAHAMBA - EXTERNAL BUILDING	
SCHEDULE NO ER 1.3: MAHAMBA - STANDBY POWER	
SCHEDULE NO ER 2.1: EMAHLATHINI	
INTERNAL BUILDING	
SCHEDULE NO ER 2.2: EMAHLATHINI	
EXTERNAL BUILDING	
SCHEDULE NO ER 2.3 EMAHLATHINI	
STANDBY POWER	
SCHEDULE NO ER 3.1: BOTHASHOOP	
INTERNAL BUILDING	
SCHEDULE NO ER 3.2: BOTHASHOOP	
EXTERNAL BUILDING	
SCHEDULE NO ER 3.3 BOTHASHOOP	
STANDBY POWER	

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SECTION TOTAL	CARRIED FORWARD
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Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILL OF QUANTITIES MECHANICAL REPAIR WORK

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

		-		-	CONTR	ACTOR
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MR 1.1		<u>MR 1.1 MAHAMBA - FIRE FIGHTING EQUIPMENT</u> <u>REPAIR WORK</u>				
1		GENERAL				
1.1		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.				
		a) Conventional fire fighting equipment	Sum	1		
1.2		Signage for fire fighting equipment a) Install new silk screened fire fighting signage mounted on walls i) 190mm x 190mm	No	10		
2 2.1		DETAILS OF REPAIR WORK TO EQUIPMENT Supply and installation of portable fire extinguisher				
		a) 2kg NH ₄ H ₂ PO ₄ fire extinguishers	No	1		
		b) 2kg CO ₂ fire extinguishers	No	1		
		c) 5kg CO ₂ fire extinguishers	No	1		
		d) 9kg DCP fire extinguishers	No	1		
2.2		Supply and installation of fire box a) Fire box (hydrant hose set)	No	1		
2.3		Supply and installation of portable fire cabinet				
		a) 9kg DCP cabinet	No	1		
CARRIE	D FORWAF	RD	·			



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
3		OPERATING AND MAINTENANCE MANUALS				
3.1		Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	3		
CARRIE	D FORWAR	D TO SCHEDULE MR 1.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MR 1.2		MR 1.2 MAHAMBA - HEATING, VENTILATION AND AIR-CONDITIONING SYSTEMS REPAIR WORK				
1		REPAIR UNITS				
1.1		Midwall split type air-conditioning units				
		a) Repair outdoor Unit fins	No	125		
		 b) Check settings and operation of all pressure switches and reset if necessary 	No	125		
		c) Check settings and operation thermostat	No	125		
		d) Repair refrigerant pipe insulation	m	50		
		e) Remove corrosion, neutralize and touch up paint	No	125		
		f) Replace filters	No	125		
		g) Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	No	125		
		h) Clean evaporator and condenser fan blades and check unbalance	No	125		
		i) Supply and install condensate drain pipe (22mm diameter)	m	50		
		j) Repair indoor guide vents	No	20		
		k) Relace compressor and vibration mountings	No	75		
		I) Supply infrared remote controllers	No	6		
CARRIE	D FORWAF	RD	•			



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
2		INSTALL NEW AC UNITS (PROVISION)				
2.1		Midwall split type air-conditioning units				
		a) Mid-wall split type air-conditioning unit (3.6kW cooling)	No	5		
		 b) Mid-wall split type air-conditioning unit (5.2kW cooling) 	No	5		
3		OPERATING AND MAINTENANCE MANUALS				
3.1		Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	3		
A A B A						
CARRIE	D FORWAR	RD TO SCHEDULE MR 1.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MR 2.1		<u>MR 2.1 EMAHLATHINI - FIRE FIGHTING</u> EQUIPMENT REPAIR WORK				
1		<u>GENERAL</u>				
1.1		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.				
		a) Conventional fire fighting equipment	Sum	1		
1.2		Signage for fire fighting equipment				
		a) Install new silk screened fire fighting signage mounted on walls				
		i) 190mm x 190mm	No	5		
2		DETAILS OF REPAIR WORK TO EQUIPMENT				
2.1		Supply and installation of portable fire extinguisher				
		a) 2kg NH ₄ H ₂ PO ₄ fire extinguishers	No	1		
		b) 2kg CO ₂ fire extinguishers	No	1		
		c) 5kg CO ₂ fire extinguishers	No	1		
		d) 9kg DCP fire extinguishers	No	1		
3		OPERATING AND MAINTENANCE MANUALS				
3.1		Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	3		
CARRIE) FORWAR	RD TO SCHEDULE MR 2.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MR 2.2		MR 2.2 EMAHLATHINI - HEATING, VENTILATION AND AIR-CONDITIONING SYSTEMS REPAIR WORK				
1		REPAIR UNITS				
1.1		Midwall split type air-conditioning units				
		a) Repair outdoor Unit fins	No	21		
		 b) Check settings and operation of all pressure switches and reset if necessary 	No	21		
		c) Check settings and operation thermostat	No	21		
		d) Repair refrigerant pipe insulation	m	25		
		e) Remove corrosion, neutralize and touch up paint	No	21		
		f) Replace filters	No	21		
		g) Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser	No	21		
		h) Clean evaporator and condenser fan blades and check unbalance	No	21		
		i) Supply and install condensate drain pipe (22mm diameter)	m	25		
		j) Repair indoor guide vents	No	10		
		k) Relace compressor and vibration mountings	No	13		
		I) Supply infrared remote controllers	No	1		
CARRIE	D FORWAF					



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
2		INSTALL NEW AC UNITS (PROVISION)				
2.1		Midwall split type air-conditioning units				
		a) Mid-wall split type air-conditioning unit (3.6kW cooling)	No	1		
		 b) Mid-wall split type air-conditioning unit (5.2kW cooling) 	No	1		
3		OPERATING AND MAINTENANCE MANUALS				
3.1		Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	3		
CARRIE	D FORWAR	RD TO SCHEDULE MR 2.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MR 3.1		MR 3.1 BOTHASHOOP - FIRE FIGHTING EQUIPMENT REPAIR WORK				
1		GENERAL				
1.1		Logging and recording of operating conditions, maintenance visits, samples, inspections, surveys, tests etc.				
		a) Conventional fire fighting equipment	Sum	1		
1.2		Signage for fire fighting equipment				
		a) Install new silk screened fire fighting signage mounted on walls				
		i) 190mm x 190mm	No	5		
2		DETAILS OF REPAIR WORK TO EQUIPMENT				
2.1		Supply and installation of portable fire extinguisher				
		a) 2kg NH ₄ H ₂ PO ₄ fire extinguishers	No	1		
		b) 2kg CO ₂ fire extinguishers	No	1		
		c) 5kg CO ₂ fire extinguishers	No	1		
		d) 9kg DCP fire extinguishers	No	1		
3		OPERATING AND MAINTENANCE MANUALS				
3.1		Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	3		
CARRIEI	D FORWAR	RD TO SCHEDULE MR 3.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MR 3.2		MR 3.2 BOTHASHOOP - HEATING, VENTILATION AND AIR-CONDITIONING SYSTEMS REPAIR WORK				
1		REPAIR UNITS				
1.1		Midwall split type air-conditioning units				
		a) Repair outdoor Unit fins	No	18		
		 b) Check settings and operation of all pressure switches and reset if necessary 	No	18		
		c) Check settings and operation thermostat	No	18		
		d) Repair refrigerant pipe insulation	m	25		
		e) Remove corrosion, neutralize and touch up paint	No	18		
		f) Replace filters	No	18		
		 g) Carry out a leak test on refrigeration piping and components inclusive of evaporator and condenser 	No	18		
		h) Clean evaporator and condenser fan blades and check unbalance	No	18		
		i) Supply and install condensate drain pipe (22mm diameter)	m	25		
		j) Repair indoor guide vents	No	10		
		k) Relace compressor and vibration mountings	No	11		
		I) Supply infrared remote controllers	No	1		
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
2		INSTALL NEW AC UNITS (PROVISION)				
2.1		Midwall split type air-conditioning units				
		a) Mid-wall split type air-conditioning unit (3.6kW cooling)	No	1		
		 b) Mid-wall split type air-conditioning unit (5.2kW cooling) 	No	1		
3		OPERATING AND MAINTENANCE MANUALS				
3.1		Compile & supply a complete set of operating and maintenance manuals (3 copies required)	Set	3		
CARRIE	D FORWAF	D TO SCHEDULE MR 3.2				



Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

MECHANICAL REPAIR WORKS SUMMARY PAGE

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

	CONTRACTOR
SCHEDULE NO MR 1.1: MAHAMBA	
FIRE FIGHTING EQUIPMENT	
SCHEDULE NO MR 1.2: MAHAMBA	
HEATING, VENTILATION & AIR-CONDITIONING	
SCHEDULE NO MR 2.1: EMAHLATHINI	
FIRE FIGHTING EQUIPMENT	
SCHEDULE NO MR 2.2: EMAHLATHINI	
HEATING, VENTILATION & AIR-CONDITIONING	
SCHEDULE NO MR 3.1: BOTHASHOOP	
FIRE FIGHTING EQUIPMENT	
SCHEDULE NO MR 3.2: BOTHASHOOP	
HEATING, VENTILATION & AIR-CONDITIONING	

SECTION TOTAL CARRIED FORWARD



Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILL OF QUANTITIES CIVIL MAINTENANCE WORK

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

					CONTR	ACTOR
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SA.01	STRUCTURAL AND BUILDING RELATED WO	RK			
		Maintenance of a complete installation:				
		The Contractor shall attend to the Preventative				
		maintenance work and minor corrections of all				
		structural and				
		building related facilities, including				
		components and elements such as, but not				
		limited to:				
		• Doors (hinges, locksets, strike plates,				
		indicator locks)				
		• Windows (pegs, stays, etc.)				
		• Pull handles				
		Glass putty				
		Fascia boards				
		 Roof cladding and sheeting 				
		Cornices				
		 Ceiling boards and jointing strips 				
		• Sealant				
		Skirtings, etc.				
		.01 MAHAMBA Port of Entry	Points	360		
		.02 EMAHLATINI Port of Entry	Points	360		
		.03 BOTHASHOOP Port of Entry	Points	360		
	SA.01	Maintenance report				
		The Contractor shall compile and submit a				
		monthly facilities inspection report, in which				
		damaged structural components and elements				
		of buildings and facilities ("damages") shall be				
		listed and quantified, only if such components and elements could not be maintained or				
		corrected at the time of inspections, due to the				
		nature of the damage, or the need for				
		replacement of such components and				
		elements.				
		.01 MAHAMBA Port of Entry	Points	360		
		.02 EMAHLATINI Port of Entry	Points	360		
		.03 BOTHASHOOP Port of Entry	Points	360		
CARRIE	D FORWA	RD				



ITTEM NO PREVENT TO Description UNIT QTY RATE AMOUNT BROUGHT FORWARD Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime: Image: Comparison of the payment remunerated for from the payment items, within the maximum allowable downtime: Image: Comparison of the payment reduction days - 500 rate only SA.04 01 Payment reduction: 01 Payment reduction domounables required for on-the-spot maintenance and corrections of all structural elements and corrections of all structural elements and components. An updated asset register shall be provided: 0.1 MAHAMBA Pot of Entry 0.2 EMAHLATINI Pot of Entry 0.3 BOTHASHOOP Port of Entry 0.3 BOTH	TRANK ON	REPUBLIC OF	SOUTH AFRICA				
Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime: Payment reduction: SA.04 .01 Payment reduction days - -500 rate only SA.01 PS Maintenance tools and equipment 5.1 The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the-spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided: 9 onts 360 .01 MAHAMBA Port of Entry Points 360 2 EMAHLATINI Port of Entry Points 360 .02 EMAHLATINI Port of Entry Points 360 360 7 atte only SA.01 PS Programme) Programme) Programme) Points 360 .01 MAHAMBA Port of Entry Points 360 360 7 atte only .01 MAHAMBA Port of Entry Points 360 360 7 atte only .01 MAHAMBA Port of Entry Points 360 360 7 atte only .01 MAHAMBA Port of Entry Points 360 360 7 atte only .02 EMAHLATINI Port of Entry Points 360 360 7 atte only .03 BOTHASHOOP Port of Entry Points 360 360 7 atte only .04 MAHAMBA Port of Entry Points 360<	ITEM NO	REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Breakdown maintenance: Repair of damages is remunerated for from the payment items, within the maximum allowable downtime: Payment reduction: SA.04 .01 Payment reduction days - -500 rate only SA.01 PS Maintenance tools and equipment 5.1 The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the-spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided: 9 onts 360 .01 MAHAMBA Port of Entry Points 360 2 EMAHLATINI Port of Entry Points 360 .02 EMAHLATINI Port of Entry Points 360 360 7 atte only SA.01 PS Programme) Programme) Programme) Points 360 .01 MAHAMBA Port of Entry Points 360 360 7 atte only .01 MAHAMBA Port of Entry Points 360 360 7 atte only .01 MAHAMBA Port of Entry Points 360 360 7 atte only .01 MAHAMBA Port of Entry Points 360 360 7 atte only .02 EMAHLATINI Port of Entry Points 360 360 7 atte only .03 BOTHASHOOP Port of Entry Points 360 360 7 atte only .04 MAHAMBA Port of Entry Points 360<	BROUGH	IT FORWA	RD				
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SA.04Payment reduction:days500rate onlySA.01 PS S.1 PS 5.1Maintenance tools and equipment The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the-spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided: 01 MAHAMBA Port of Entry 02 EMAHLATINI Port of Entry 03 BOTHASHOOP Port of Entry 04 State 04 as after site handover and updated monthy which is linked to the expenditure and project cash flow 01 MAHAMBA Port of Entry 02 EMAHLATINI Port of Entry 03 BOTHASHOOP Port of Entry 03 BOTHASHOOP Port of Entry 03 BOTHASHOOP Port of Entry 04 State 04 Points360500rate onlySA.01 PS 4Programme) The Contractor shall compile and submit a complete and accurate monthy Maintenance 03 BOTHASHOOP Port of Entry 03 BOTHASHOOP Port of Entry 04 BOTHASHOOP Port of Entry 05 BOTHASHOOP Por			· · ·				
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SA.01 PS 5.1 Maintenance tools and equipment 5.1 The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the-spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided: .01 MAHAMBA Port of Entry .02 EMAHLATINI Port of Entry .03 BOTHASHOOP Port of Entry .04 MAHAMBA Port of Entry .05 EMAHLATINI Port of Entry .05 BOTHASHOOP Port of Entry .05 BOTHASHOOP Port of Entry .05 EMAHLATINI Port of Entry .05 EMAHLATINI Port of Entry .05 EMAHLATINI Port of Entry .05 BOTHASHOOP Port of Entry .05 BOTHASHOOP Port of Entry .05 BOTHASHOOP Port			Payment reduction:				
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5.1 The Contractor shall carry out his inspections with the necessary tools and consumables required for on-the-spot maintenance and corrections of all structural elements and components. An updated asset register shall be provided: 360 01 MAHAMBA Port of Entry Points 360 02 EMAHLATINI Port of Entry Points 360 03 BOTHASHOOP Port of Entry Points 360 4 Programme of the Works (Construction Programme of the Works 14 days after site handover and updated monthly which is linked to the expenditure and project cash flow 90ints 360 01 MAHAMBA Port of Entry Points 360 360 4 Programme) The Contractor shall compile and submit a compilete and accurate Programme of the Works 14 days after site handover and updated monthly which is linked to the expenditure and project cash flow 90ints 360 01 MAHAMBA Port of Entry Points 360 360 02 EMAHLATINI Port of Entry Points 360 -500 rate only Maintenance Control Plan 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. 360 -500 rate only Maintenance Control Flan The Contractor shall compile and submit a		SA.01 PS	Maintenance tools and equipment				
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	CARRIED		D TO SECTION SUMMARY				





public works & infrastructure Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

anns.						
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SA.01	MAINTENANCE OF PLUMBING, DRAINAGE, WET				
		Maintenance of a complete installation:				
		The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specification AA Plumbing and Drainage Installations:				
		Table AA 10.02/1 - Rainwater Disposal System, Table AA 10.02/2 - Soil and Wastewater Drainage System, Table AA 10.02/3 - Domestic Water Distribution and Reticulation Systems, Table AA 10.02/4 - Sanitary and Brassware Equipment, shall consist of at least, but not limited to:				
		 Checking, inspecting, cleaning, unblocking, re- adjusting, painting, fixing, repairing or replacing, inclusive of appurtenances of all drains and sewers including: Pipes 				
		– Gutters				
		 Catch pits 				
		– Channel drains				
		 Floor outlets 				
		– Gullies				
		 Manhole covers and frames 				
		– Brackets				
		 Grease traps, oil separators, etc. 				
		– Plumbing				
		 Water distribution including: 				
		· Pipes				
		· Isolation				
		· Non-return valves				
		· Control valves				
		· Air release valves				
		· Other valves				
		· Strainers				
		Water closets (WC):				
		 Seats and covers 				
		– Cisterns				
		 Sanitary ware mountings, etc. 				
		 Fixing of leaks and replacing of materials and components, etc: 				
		Maintenance work: Plumbing, drainage,wet services and sewer networks of operational and residential areas and mobile homes. Maintenance is not limited to the above- mentioned				
		.01 MAHAMBA Port of Entry	Points	360		
		.02 EMAHLATINI Port of Entry	Points			
		.03 BOTHASHOOP Port of Entry	Points			
CARRIE	D FORWA	-				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	IT FORWA	RD				
		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	rate only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-500	rate only
	SA.05	03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days		-500	rate only
		Operation of a complete installation:				
		Water demand management, data logging and recording, as per: Technical Specification KA Water Audit (KA.04.01). Comprising of:				
		Checking operation of water meters				
		Cleaning strainer units at water meters				
		Read water meters				
		 Verification of sample meter readings Updating of water demand database (spreadsheet) 				
		 Measuring sewer night flows 				
		Analysis of data and identification of water leaks				
		Adjust operation of pressure-reducing valves				
		 Compilation of monthly water balance on volume and costs and issue of consumer accounts at: 				
		.01 MAHAMBA Port of Entry	Points	360		
		.02 EMAHLATINI Port of Entry	Points	360		
		.03 BOTHASHOOP Port of Entry	Points	360		
		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	rate only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-500	rate only
	SA.05	03 Payment reduction due to exceeding of maximum allowable down-time during damage	days		-500	rate only
		repair				
CARRIEL	D FORWAR	ע ו				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
мсз		MC.3 - FENCING, CLEANING AND SITE KEEPING				
		EMAHLATHINI PORT OF ENTRY - MAINTENANCE OF FENCE AND GATES				
3	SA.01	Maintenance of a complete installation:				
	SN 01	The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CC:Fencing and Gates, shall consist of at least, but not limited to:				
		a) Clearing 2.5 m wide of fence lines (both side), excluding bordering country				
		b) Cleaning fire break areas				
		c) Inspection and repair of damages				
		d) Corrosion protection on fencing, gates and tubular posts				
		e) Inspection of fence for tightness to straining wire and redress or repair where required				
		f) Inspection of gate hinges and repair or replace if necessary, ensur ng alignment of gates				
		g) Painting of previously painted posts, stays, gates, mesh fences, etc. at:				
		.01 Emahlathini: Maintenance work: Perimeter fence line, at operational area and at residential area. Maintenance is not limited to the above-mentioned	point	360		
3.1		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	rate only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-500	rate only
	SA.05	03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days		-500	rate only
CARRIE	D FORWAR	RD				



public works & infrastructure Department: Public Works and Infrastructure REPUBLIC OF SOUTH AFRICA

ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	IT FORWA	RD				
3.2		MAINTENANCE OF SITE KEEPING				
		INSTALLATION				
3.2.1	SA.01	Maintenance of a complete installation:				
0.2.1	0/1.01					
		The Contractor shall attend to preventative maintenance and breakdown maintenance, as per				
		Technical Specification CJ: Site Keeping and				
		Cleaning (CJ 01.01 and CJ 04.02.01), shall consist				
		of at least, but not limited to:				
		• Cleaning out of and supply of black refuse bags to				
		all waste bins in public areas				
		 Watering of plants, shrubs, grass and trees upon 				
		strict instruction from the Engineer (in line with water				
		restrictions)				
		Removal of weeds ,clearing of weeds and grass				
		along the edges of paved areas				
		Cutting of grass				
		Trimming of dense shrubs				
		Fertilisation of lawns, fertilisation of flower beds				
		and trees				
		Demonstral of successive black burgets				
		 Removal of undesirable shrubs 				
		Trimming of trees				
		 Collecting of Itter andforeign objects, removal of 				
		waste, etc. at:				
		.01 Emahlathini: Maintenance work: All areas included within the perimeter fence of the port of				
		entry whichincludes the operational area and the				
		residential area as well as site keeping 20m around				
		the outside of the perimeter fence line, excluding				
		bordering country				
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VANKIEL						1





	DAVMENT		1			,
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
3.2.2		Payment reduction:				
	SA.03	.1 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	rate only
	SA.04	.2 Payment reduction due to exceeding of maxImum allowable down-time during ordinary breakdown	days		-500	rate only
	SA.05	.3 Payment reduction due to exceeding of maxImum allowable down-time during damage repair	days		-500	rate only
		MAITENANCE AND CLEANING OF BUILDINGS				
3.2.1	SA.01 CJ 05	Maintenance of a completeinstallation:				
	SN 01	The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CJ: Site Keeping and Cleaning (CJ 01.02 and CJ 01.03), shall consist of at least, but not limited to:				
		a) Dusting/wet wiping of counter tops				
		 b) Ousting under counter shelves and floors in public areas and open plan offices (daily, before opening of port of entry) 				
		c) Sweeping/washing and polishing office floors				
		d) Vacuum cleaning carpets				
		 e) Emptying and cleaning of waste baskets in offices 				
		 f) Service and polishing fittings g) Washing interior and exterior walls h) Cleaning and maintaining ablution facilities in a sanitary condition i) Emptying and cleaning of all waste receptacles 				
	D FORWAF					
	DFURWAR					





ALL PROPERTY OF	REPUBLIC OF	SOUTH AFRICA				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	IT FORWA	RD				
BROUG		 j) Cleaning of all bowls, basins and urinals k) Cleaning and polishing of all fittings and mirrors l) Washing and cleaning out of She-bins m) Washing of windows n) Dusting of window sills, ledges, pipes and fittings o) Dusting of buildings interiors p) Deep cleansing of toilets and ablution blocks 				
		every six months, etc. at: 01 Emahlathini: Maintenance work: Operational buildings, ablution blocks, public areas, paving areas, concrete screeds, etc. .01 Repair wire and mesh fences less than 1,3m high .02 Repair wire and mesh fences between 1,3m	m	280		
		and 2,0m high .03 Repair wire and mesh fences between 2.0m	m	280		
		and 3,0m high	m	280		
04000						
CARRIE		RD TO SCHEDULE MC.3				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MC4		MC.4 - BOTHASHOOP- MAINTAINANCE OF BULK WATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS				
1.1.1	SA.01	Maintenance of a complete installation:				
		The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CE: Water Distribution Networks, DA: Borehole Pump Systems, and OL:Chlorination Systems for the Disinfection of Drinking Water, shall consist of at least, but not limited to:				
		a) Routine checking, inspection, and repair of leaks/replacement of corroded pipes	No	1		
		b) Clean out all strainers	No	1		
		c) Fix and maintain all bracketing systems	No	1		
		d) Paint repairs to piping,fittings and equipment	No	1		
		e) Scour reservoirs and pipes to remove silt and deposits, empty and clean bulk water reservoirs	No	1		
		f) Check, test, service, re-adjust, repair or replace all types of valves and vacuum breakers,inclusive of gaskets, gland packings, seals,etc.	No	1		
		g) Check V-belts, MCC* panels with level sensing devices and electric motors where applicable	No	1		
		i) Remove, inspect and service repair or replace submersible pumps	No	1		
		j) Service re-adjust and calibrate pressure gauges and water meters	No	1		
		k) Service, repair and clean chlorine dosing apparatus from blockages	No	1		
		I) Monthly visual inspect on and report on pressed steel water tanks	No	1		
		m) Monthly check for and repair leaks	No	1		
0475	D FORWA	n) Bl-annually corrosion protection	No	1		





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TEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	HT FORWA	RD				
		o) Bi-annually clean and steril se pressed steel tank, etc. at	No	1		
		.01 Bothashoop: Maintenance work: Bulk water supply systems and external water networks	point	360		
1.2		Payment reduction:				
	SA.03	1. Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day		-2500	Rate Only
	SA.04	 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown 	day		-500	Rate Only
	SA.05	3. Payment reduction due to exceeding of maximum down-time during damage repair	day		-500	Rate Only
1.3		OPERATION OF BULK WATER SUPPLY SYSTEM				
	SF.01 DH.09.05	Operating of installation:				
		Operation as per Technical Specification DH: Opertaion of Potable Water Works, DA: Borehole Pump Systems and DL; Chlorination for systems for Disinfection of Drinking Water, shall consist of atleast but not limited to:				
		a) Logging and recording of all pressure gauges,water meters,water level in reservoir,borehole water levels at start and stop of pump,amperes, volts and hour meter readings of borehole pumps (and calculate kW-hours)				
		b) Drafting of a water balance of the bulk water system (spread sheet based), as well as measuring and recording residual chlor ne in the drinking water system at reservoir and furthest distribution point user				
		c) Recording of rainfall (date, precipitat on and duration per event)				
CARRIE	D FORWAF					



THE PARTY OF	REPUBLIC OF	SOUTH AFRICA				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH		RD				
Dicocol		d) Checking integrity of power supply at MCC* and verify correct switching of pumps				
		e) MCC: Motor control centre				
		f) Logging of all failures, malfunctions, spills, pollution events, power failures and detailof corrective measures implemented, ensuring correct borehole pump flow rate by adjust ng control valve				
		g) Visual inspection daily, cleanin- stallation weekly. Check dosing room weekly, check and repair leaks monthly				
		h) Supply chemicals and make-up chlorine solution, ensuring the correct chlorine dosing rate and re- adjustment proportional to pump rate and on-site residual chlorine measurements, keeping facilities neat, controlling access to the site				
		 Report in electronic format of: Turbidity (cloudiness or haziness) readings of raw and purified water, concentration of chemical solutions, percentage setting on dosing pumps, actual volume of chemicals consumed and monthly water analysis 				
		j) Maintaining safety conditions on site, etc. at:				
		01 Bothashoop: Operating work: Bulkv water supply systems and external networks	point	360		
1.4		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day		-2500	Rate Only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day		-500	Rate Only
	SA.05	03 Payment reduction due to exceeding of maximum down-time during damage repair	day		-500	Rate Only
CARRIE	D FORWA	RD				
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	PAYMENT					
ITEM NO	REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	TO HT FORWA	RD				
	DA 04.03	01 Pump testing of boreholes	No	1		
		02 Extra over on sub item .01 above				
		.Groundwater sampling	No	1		
		.Compilation of borehole project	No	1		
	DA.03.05	Decommissioning and removal of submersible pumping equipment:				
		01 Borehole submersible pump	No	1		
	DA.03.06	Servicing of submersible pumping equipment:				
		01 Borehole submersible pump	No	1		
1.1.6	DA.03.02	Commissioning of submersible pumping equipment:				
		01 Borehole submersible pump				
1.1.7	EJ 05	Potable Water Quality Testing	No	1		
		01. Potable water quality tests to be performed by an approved authority on a monthly basis on the water delivered to the consumers.See EJ 03.08	No	36		
1.2		EMAHLATHINI - MAINTENANCE OF BULK WATER SUPPLY SYSTEMS, WATER PURIFICATION WORKS AND EXTERNAL WATER NETWORK				
1.2.1	SA.01	Maintenance of a complete Installation:				
		The contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CE: Water Distribution Netwoks, DA Borehole Pump Systems, and DL: Chlorination System for the Disinfection of Drinking Water, shall consist of atleast, but not limited to:				
		a) Routine checking, inspection, and repair of leaks/replacement of corroded pipes				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGH	HT FORWA	NRD				
		b) Clean out of strainers				
		c) Fix and maintain all bracketing systems				
		d) Paint repairs to piping, fittings and equipment				
		e) Scour reserviors and pipes to remove silt and deposites, empty and clean bulk water reserviors				
		f) Check, test, service, re-adjust, repair or replace all types of valves and vacuum breakers, inclusive of gaskets, gland packings, seats, etc.				
		g) Check, test, service, re-adjust, repair or replace all types of valves and vacuum breakers, inclusive of gaskets, gland packings, seats, etc.				
		 h) Check, test, service, re-adjust, repair or replace all types of valves and vacuum breakers, inclusive of gaskets, gland packings, seats, etc. 				
		i) Check V- belts, MCC panels with level sensing devices and electric motors where applicable				
		j) Remove, Inspect and service repair or replace submersible pumps				
		k) Inspect and clean Pump sump				
		I) Service, re-adjust and calibrate pressure gauges and and water meters				
		m) Service, re-adjust and calibrate pressure gauges and and water meters				
		n) Service, repair and clean chlorine dosing apparatus from blockages				
		o) Monthly visual inspection and report on pressed steel water tanks				
		p) Monthly visual inspection and report on pressed steel				
CARRIEI	D FORWA	l RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
		q) Monthly check for and repair leaks				
		r) Bi-annually corrosion protection				
		s) Bi-annually clean and sterlise pressed steel tank, etc at:				
		.01 Emahlathini: Maintenance work: Bulk water supply system external water networks and water purification works	point	360		
1.2.2		Payment reduction:				
	SA.03	.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day		-2500	Rate Only
	SA.04	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day		-500	Rate Only
	SA.05	.03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	day		-500	Rate Only
1.2.3		OPERATING OF BULK WATER SUPLY SYSTEM				
	SF01 DH.09.05	Operating of Installation:				
		Operation as per Technical Specification DH:Operation of Potable Water Works, DA: Borehole Pump Systems, and DL: Chlorination Systems for the Disinfection of Drinking Water, shall consist of at least, but not limited to:				
		a) Logging and recording all pressures gauges, water meters, water level in resevior, borehole water levelsat start and stop of pump, ampres, volts and hour meter readings of borehole pumps (and calc Kw-hours)				
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
_	то		UNIT	QII	NAIL	AMOONT
BROUGI	HT FORWA					
		b) Drafting a water balance of the bulk water system (spread sheet based), as well as measuring and recording residual chlorine in the drinking water system at resevior and furthest distribution point user				
		c) Recording and rainfall (date, precipitation and duration per event)				
		d) Checking integrity of power supply at MCC and verify correct switching of pumps				
		e) MCC Motor control centre				
		f) Logging of all failures, malfunctions, spills, pollution events, power failures and detail of coreective measures implemented, ensuring corrective borehole pump flow rate by adjusting control valve				
		g) Visual inspection daily, clean installation weekly, check dosing room weekly, check and repair leaks monthly				
		h) Supply chemical and make-up chlorine solution, ensuring the correct chlorine dosing rate and re- adjusted propotional to pump rate and on-site residual chlorine measurements, keeping facilities neat, controlling access to the site etc.				
		 Report in electronic format of: Turbidity (cloudiness or haziness) readings of raw and purified water, concentration of chemical solutions, percentage setting on dosing pumps,actual volume of chemicals consumed and monthly water analysis 				
		j) Maintaining safety conditions on site, etc. at:				
		01 Emahlathini: Operating work: Water purification works	point	360		
1.2.4		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day		-2500	Rate Only
CARRIE	D FORWAR	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD	-			
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day		-500	Rate Only
	SA.05	03 Payment reduction due to exceeding of maximum down-time during damage repair	day		-500	Rate Only
1.2.5	DA	BOREHOLES AT EMAHLATHINI PORT OF ENTRY:				
1.2.5.1		Testing and servicing				
	DA 04.03	01 Pump testing of boreholes	No	1		
		1. Extra over on sub item .01 above				
		a) Ground water sampling	No	1		
		b) Compilation of borehole project	No	1		
1.2.6	DA.03.05	Decommissioning and removal of submersible pumping equipment:				
		01 Borehole submersible pump	No	1		
	DA.03.06	Servicing of submersible pumping equipment:				
		01 Borehole submersible pump	No	1		
	DA.03.02	Commissioning of submersible pumping equipment:				
		01 Borehole submersible pump	No	1		
1.2.7	EJ 05	Potable Water Quality Testing:				
		01 Potable water quality tests to beperformed by an approved authority on a monthly basis on the water delivered to the consumers.See EJ 03.08	No	36		
1.3		MAHAMBA - MAINTENANCE OF BULKWATER SUPPLY SYSTEMS AND EXTERNAL WATER NETWORKS				
1.3.1	SA.01	Maintenance of a complete installation:				
CARRIE	D FORWAF	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG						
		The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications CE: Water Distribution Networks, DA: Borehole Pump Systems, and DL: Chlorination Systems for the Disinfection of Drinking Water, shall consist of at least, but not limited to: a) Routine checking,inspection, and repair of				
		leaks/replacement of corroded pipes b) Fix and maintain all bracketing systems				
		c) Paint repairs to piping, fittings and equipment				
		d) Scour reservoirs and pipes to remove silt and deposits,empty and clean bulk water reservoirs				
		e) Check, test, service, re-adjust, repair or replace all tyoes of valves and vaccum breakers, iclusive of gaskets, gland parkings, seals et.				
		f) Check the V-belts, MCC" panels with level sensing devices and electric motors where applicable				
		g) Remove, inspect and service repair or replace submersible pumps				
		h) Service, repair and clean chlorine dosing apparatus from blockages				
		i) Service, repair and clean chlorine dosing apparatus from blockages				
		j) Service, re-adjust and calibrate pressure gauges and water meters				
		k) Monthly visual inpection and report on pressed steelwater tanks				
		I) Monthly check for and repair leaks				
		m) Bi-annually corrosion protection				
		n) Bi-annually clean and sterilised steel tank, etc at:				
CARRIE	D FORWAF	KD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
		1. Mahamba: Maintenance works: Bulk water supply systems, external water networks and purification system	point	360		
1.3.2		Payment reduction:				
	SA.03	.01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day		-2500	Rate Only
	SA.04	.02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day		-500	Rate Only
	SA.05	.03 Payment reduction due to exceeding of maximum down-time during damage repair	day		-500	Rate Only
1.3.3		OPERATING OF BULK WATER SUPPLY SYSTEM				
	SF.01 DH.09.05	Operating of installation:				
		Operation as per Technical Specification DH: Operation of Potable Water Works, DA: Borehole Pump Systems, and DL: Chlorination Systems for the Disinfection of Drinking Water, shall consist of at least, but notlimited to:				
		a) Logging and recording of all pressure gauges, water meters, water level in reservoir, borehole water levels at start and stop of pump, amperes, volts and hour meter readings of borehole pumps (and calculate kW-hours)				
		b) Drafting of a water balance of the bulk water system (spread sheet based), as well as measuring and recording residual chlorine in the drinking water system at reservoir and furthest distribution point user				
		c) Recording of rainfall (date, precipitation and duration per event)				
		d) Checking integrity of power supply at MCC and verify correct switching of pumps				
CARRIE	D FORWAF					



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGI	HT FORWA	RD				
		 e) Logging of all failures, malfunctions, spills, pollution events, power failures and detail of corrective measures implemented, ensuring correct borehole pump flow rate by adjusting control valve g) Visual inspection daily,clean in- stallation weekly. Check dosing room weekly, check and repair leaks monthly 				
		h) Supply chemicals and make-up chlorine solution,ensuring the correct chlorine dosing rate and re-adjustment proportional to pump rate and on- site residual chlorine measurements, keeping facilities neat,controlling access to the site. etc.				
		 i) Report in electronic format of: Turbidity (cloudiness or haziness} readings of raw and purified water,concentration of chemicalsolutions, percentage setting on dosing pumps, actual volume of chemicals consumed and monthly water analysis 				
		j) Maintaining safety conditions on site, etc. at:				
		01 Mahamba: Operation work: Water purification system	point	360		
1.3.3.2		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	day		-2500	Rate Only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day		-500	Rate Only
	SA.05	03 Payment reduction due to exceeding of maximum down-time during damage repair	day		-500	Rate Only
1.3.4	DA	BOREHOLES AT MAHAMBA PORT OF ENTRY:				
1.3.4.1		Testing and servicing				
	DA 04.03	01 Pump testing of boreholes	No	1		
CARRIE	D FORWAR	RD		1		



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
BROUGHT FORWARD							
		02 Extra over on subitem .01 above					
		.Ground water sampling	No	1			
		.Compilation of borehole project	No	1			
1.3.4.2	DA.03.05	Decommissioning and removal of submersible pumping equipment:					
	DA.03.06	Servicing of submersible pumping: equipment					
	DA.03.06	Servicing of submersible pumping: equipment					
		.01 Borehole submersible pump	No	1			
1.3.4.3	DA.03.02	Commissioning of submersible pumping equipment:					
		.01 Borehole submersible pump	No	1			
1.3.4.4	EJ 05	Potable Water Quality Testing					
		01 Potable water quality tests to be performed by an approved authority on a monthly basis on the water delivered to the consumers.See EJ 03.08	No	36			
CARRIE	CARRIED FORWARD TO SCHEDULE MC.4						


ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MC5		MC.5 - MAINTENANCE OF SEPTIC TANKS AND SEWER NETWORKS				
		EMAHLATHINI				
2.1	SA.01	Maintenance of a complete installation:				
		The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications EG: Septic tanks facilities, which consist of, but not limitted to:				
		a) Routine inspection of septic tanks				
		b) Inspection chambers covers and frames				
		c) Necessary cleaning and rodding				
		d) Unblocking of the bulk sewer network				
		e) Repair of manhole benching				
		f) Fixing of leaks				
		g) Removal of invasive plants, trees and bushes around septic tanks, ect. at:				
		01 Emahlathini: Maintenance work: Septic tanks, french drains and sewer networks				
2.2		Payment reduction:	point	360		
	SA.03	 Payment reduction due to exceeding of maximum allowable down-time during emrgency breakdown 	day		-2500	Rate Only
	SA.04	2. Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	day		-500	Rate Only
	SA.O5	 Payment reduction due to exceeding of maximum allowable down-time damage repair 	day		-500	Rate Only
CARRIE	D FORWAR	RD				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG						
	EG 01	The Contractor shall attend to preventative maintenance, which consist of, but not limited to:				
		a) Check and log scum, water and sludge depthsin septic tank. If sludge depth exceeds 50% of tank depth, desludge the tank. Desludge tank at least once per year. Inspection is monthly				
		b) Monitor pollution risk of septic tanks close to boreholes,etc.at:				
		01 Emahlathini: Septic tanks: Check, desludge,cleaning out and dispose of contents off- site as specified. Fill septic tank with water just aboveinlet pipe (T- piece} and check soak-away of fench drains				
2.3.2		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable sludge build-up in septic tanks	day			
2.4		MAINTENANANCE OF SEPTIC TANKS AND MAINTENANCE OF A COMPLETE INSTALLATION: BOTHASHOOP				
2.4.1	SA.01	The Contractor shall attend to preventative maintenance and breakdown maintenance as per Technical Specifications EG: Septic tanks facilities, which consist of, but not limited to:				
		a) Routine inspection of septic tanks				
		b) Inspection chambers covers and frames				
		c) Necessary cleaning and rodding				
		 d) Unblocking of the bulk sewer network a) Ropair of manhola hanghing 				
		e) Repair of manhole benchingf) Fixing of leaks				
CARRIE	D FORWAR		1			



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
		g) Removal of invasive plants, trees and bushes around septlc tanks, ect. at				
		01 Bothashoop: Maintenance work: Septic tanks and sewer networks	point	360		
2.4.2		Payment reduction:				
	SA.03	1. Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown				
	SA.04	2. Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown				
	SA.05	3. Payment reduction due to exceeding of maximum down-time during damage repair				
2.5	SF.01	SEPTIC TANKS				
2.5.1	EG 01	Desludge septic tanks:				
	EG 06	The Contractor shall attend to preventative maintenance, which consist of, but not limited to:				
		a) Check and log scum,water and sludge depths in septic tank. If sludge depth exceeds 50% of tank depth, desludge the tank. Desludge tank at least once per year.Inspection is monthly				
		b) Monitor pollution risk of septic tanks close to boreholes				
		01 Bothashoop: Septic tanks: Check, desludge, cleaning out and dispose of contents off-site. Fill septic tank with water just above Inlet pipe (T-piece) and check soak-away of french drains	point	60		
2.5.2		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable sludge build-up in septic tanks	day		-2500	Rate Only



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MC6		MC.6 - ROADS AND STORMWATER DRAINAGE MAINTENANCE				
4.1		BOTHASHOOP				
4.1.1	SA.01	Maintenance of a complete installation:				
		The Contractor shall attend to preventativemaintenance and breakdown maintenance, as per Technical Specification CA and CB: Roads, shall consist of at least, but not limited to:				
		a) Routine inspection of roads, gravel shoulders, pavements, road signs and road markings				
		b) Blading all gravel roads and parking areas				
		c) Removing loose material from road surfaces and the surface of parking areas by means of mechanical brooming				
		d) Repair of all surfaces, road pavements, kerbs, road markings and signs, as well as Technical Specification CB: Storm Water drainage, shall consist of atleast, but not limited to:				
		 Inspection, cleaning, unblocking and repair of all storm water infrastructure components such as: 				
		Culverts				
		Manhole				
		Inlet covers				
		inlet brenching, grits and frames etc, at				
		01 Bothashoop: Maintenance work: Roads and storm water drainage at Operational area and residential area	point	360		
CARRIE	D FORWA				L	



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUGI	HT FORWA	NRD				
4.1.2		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	Rate Only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-500	Rate Only
	SA.05	03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days		-500	Rate Only
4.2	SA.01	EMAHLATHINI - MAINTENANCE OF ROADS AND STORM WATER DRAINAGE				
		The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CA and CB: Roads, shall consist of at least, but not limited to:				
		a) Routine inspection of roads,gravel shoulders, pavements, road signs and road markings				
		b) Blading all gravel roads and parking areas				
		c) Removing loose material from road surfaces and the surface of parking areas by means of mechanical brooming				
		d) Repair of all surfaces,road pavements, kerbs,road markings and signs, as well as Technical Specification CB:Storm Water drainage, shall consist of at least, but not limited to:				
		 Inspection, cleaning, unblocking and repair of all storm water infrastructure components such as: 				
		Culverts				
		Manhole				
		Inlet covers				
		inlet brenching, grits and frames etc, at				
		01 Emahlathini: Maintenance work: Roads and storm water drainage at Operational area and residential area				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	ARD				
4.2.1		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	Rate Only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-500	Rate Only
	SA.05	03 Payment reduction due to exceeding of maximum allowable down-time during damage repair	days		-500	Rate Only
4.3		MAHAMBA - MAINTENANCE OF ROADS AND STORM WATER DRAINAGE				
4.3.1	SA.01	Maintenance of a complete installation:				
		The Contractor shall attend to preventative maintenance and breakdown maintenance, as per Technical Specification CA: Roads and CB: Storrnwater drainage, shall consist of at least, but not limited to:				
		a) Routine inspection of roads,gravel shoulders, pavements, road signs and road markings				
		b) Blading all gravelroads and parking areas				
		c) Removing loose material from road surfaces and the surface of parking areas by means of mechanical brooming				
		d) Repair of all surfaces, road pavements, kerbs, road markings and signs.				
		e)Technical Specification CB: Storm Water drainage, shall consist of at least, but not limited to:				
		 Inspection, cleaning, unblocking and repair of all storm water infrastructure components such as: Culverts 				
		Manhole				
CARRIE	D FORWAR		1			





	PAYMENT					
ITEM NO	REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
BROUG	HT FORWA	RD				
		Inlet covers				
		inlet brenching, grits and frames etc, at				
		01 Mahamba: Maintenance work: Roads and stormwater drainage at Operational area and residential area	point	360		
4.3.2		Payment reduction:				
	SA.03	01 Payment reduction due to exceeding of maximum allowable down-time during emergency breakdown	days		-2500	Rate Only
	SA.04	02 Payment reduction due to exceeding of maximum allowable down-time during ordinary breakdown	days		-500	Rate Only
	SA.05	03 Payment reduction due to exceeding of maximum allowable down-time during	days		-500	Rate Only
		RD TO SCHEDULE MC.6				



Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

CIVIL MAINTENANCE WORKS SUMMARY PAGE

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

 SCHEDULE NO 3.1: INSTALLATION C1:

 STRUCTURAL AND BUILDING

 SCHEDULE NO 3.2: INSTALLATION C2:

 PLUMBING, DRAINAGE AND WET SERVICES

 SCHEDULE NO 3.3: INSTALLATION MC3:

 FENCING, CLEANING AND SITE KEEPING

 SCHEDULE NO 3.4: INSTALLATION MC4:

 BULK WATER SUPPLY SYSTEMS AND

 EXTERNAL WATER NETWORKS

 SCHEDULE NO 3.5: INSTALLATION MC5:

 WASTEWATER TREATMENT WORKS AND

 SCHEDULE NO 3.6: INSTALLATION MC6:

 ROADS AND STORM WATER DRAINAGE

SECTION TOTAL CARRIED FORWARD



Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILL OF QUANTITIES ELECTRICAL MAINTENANCE WORK

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

					CONTR	ACTOR
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 1.1		EM 1.1 MAHAMBA - MAINTENANCE OF INTERNAL BUILDING ELECTRICAL WORK				
1.1	SA.01	Maintenance of completed installation				
		a) Standby power installation	Point	360		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
CARRIE		RD TO SCHEDULE EM 1.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 1.2		EM 1.2 MAHAMBA - MAINTENANCE OF EXTERNAL BUILDING ELECTRICAL WORK				
1.1	SA.01	Maintenance of completed installation				
		a) Standby power installation	Point	360		
1.2		Payment reduction:				
	SA.04	 a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown 	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
CARRIE	D FORWAF	D TO SCHEDULE EM 1.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 1.3		EM 1.3 MAHAMBA - MAINTENANCE OF STANDBY POWER WORK				
1.1	SA.01	Maintenance of completed installation				
		a) Standby power installation units serviced every 6 months (3 Installations)	No	18		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown	Day	-	-300.00	Rate Only
	SA.06	c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	9		
CARRIE	D FORWAF	RD TO SCHEDULE EM 1.3				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 2.1		EM 2.1 EMAHLATHINI - MAINTENANCE OF INTERNAL BUILDING ELECTRICAL WORK				
1.1	SA.01	Maintenance of completed installation				
		a) Standby power installation	Point	360		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
CARRIE	JFURWAF	RD TO SCHEDULE EM 2.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 2.2 1.1		EM 2.2 EMAHLATHINI - MAINTENANCE OF EXTERNAL BUILDING ELECTRICAL WORK Maintenance of completed installation a) Standby power installation	Point	360		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
CARRIE	D FORWAR	RD TO SCHEDULE EM 2.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 2.3		EM 2.3 EMAHLATHINI - MAINTENANCE OF STANDBY POWER WORK				
1.1	SA.01	Maintenance of completed installation				
		a) Standby power installation units serviced every 6 months (2 Installations)	No	12		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	6		
		RD TO SCHEDULE EM 2.3				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 3.1		EM 3.1 BOTHASHOOP - MAINTENANCE OF INTERNAL BUILDING ELECTRICAL WORK				
1.1	SA.01	Maintenance of completed installation				
		a) Standby power installation	Point	360		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
CARRIE	D FORWAF	RD TO SCHEDULE EM 3.1	1			



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 3.2		EM 3.2 BOTHASHOOP - MAINTENANCE OF EXTERNAL BUILDING ELECTRICAL WORK				
1.1	SA.01	Maintenance of completed installation				
		a) Standby power installation	Point	360		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
		RD TO SCHEDULE EM 3.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
EM 3.3	SA.01	EM 3.3 BOTHASHOOP - MAINTENANCE OF STANDBY POWER WORK Maintenance of completed installation a) Standby power installation units serviced every 6 months (1 Installation)	No	6		
	SA.04	Payment reduction: a) Payment reduction due to exceeding				
		maximum allowable down-time during Emergency Breakdown	Day	-	-2750.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair	Day	-	-275.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
CARRIEI	D FORWAR	RD TO SCHEDULE EM 3.3				



Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

ELECTRICAL MAINTENANCE WORKS SUMMARY PAGE

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

	CONTRACTOR
SCHEDULE NO EM 1.1: MAHAMBA - INTERNAL BUILDING	
SCHEDULE NO EM 1.2: MAHAMBA - EXTERNAL BUILDING	
SCHEDULE NO EM 1.3: MAHAMBA - STANDBY POWER	
SCHEDULE NO EM 2.1: EMAHLATHINI	
INTERNAL BUILDING	
SCHEDULE NO EM 2.2: EMAHLATHINI	
EXTERNAL BUILDING	
SCHEDULE NO EM 2.3 EMAHLATHINI	
STANDBY POWER	
SCHEDULE NO EM 3.1: BOTHASHOOP	
INTERNAL BUILDING	
SCHEDULE NO EM 3.2: BOTHASHOOP	
EXTERNAL BUILDING	
SCHEDULE NO EM 3.3 BOTHASHOOP	
STANDBY POWER	

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Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

BILL OF QUANTITIES MECHANICAL MAINTENANCE WORK

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

			CONTRACTOR				
ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	
MM 1.1		MM 1.1 MAHAMBA - MAINTENANCE OF FIRE FIGHTING EQUIPMENT					
1.1	SA.01	Maintenance of completed installation					
		a) Fire fighting equipment	Point	360			
1.2		Payment reduction:					
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2500.00	Rate Only	
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only	
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-300.00	Rate Only	
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3			
1.3		Mandatory periodical servicing and cleaning, not included in preventative maintenance items listed above					
		 a) Statutory annual servicing of 2kg NH₄H₂PO₄ fire extinguishers 	No	5			
		 b) Statutory annual servicing of 2kg CO₂ fire extinguishers 	No	4			
		 c) Statutory annual servicing of 4.5kg CO₂ fire extinguishers 	No	4			
	D FORWAF						



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
		BROUGHT FORWARD				
		d) Statutory annual servicing of 9kg DCP fire extinguishers	No	71		
		e) Statutory annual servicing of 80m fire hydrant	No	10		
		 f) Statutory annual servicing and testing of fire booster pump system 	No	1		
		g) Fire fighting procedures and training	No	2		
CARRIEI	D FORWAF	RD TO SCHEDULE MM 1.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MM 1.2		MM 1.2 MAHAMBA - MAINTENANCE OF HEATING, VENTILATION AND AIR- CONDITIONING SYSTEMS				
1.1	SA.01	Maintenance of completed installation				
		a) Heating, Ventilation and Air-conditioning	Point	360		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2500.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-300.00	Rate Only
1.3		Mandatory periodical servicing and cleaning, not included in preventative maintenance items listed above				
		Provide full service of Air-conditioning units according to manufacturer's specifications (Bi- Annually)				
		a) Mid-wall split unit	No	106		
		b) Thru-wall unit	No	19		
CARRIE	D FORWAF	L RD TO SCHEDULE MM 1.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MM 2.1		MM 2.1 EMAHLATHINI - MAINTENANCE OF FIRE FIGHTING EQUIPMENT				
1.1	SA.01	Maintenance of completed installation				
		a) Fire fighting equipment	Point	360		
1.2		Payment reduction:				
	SA.04	 a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown 	Day	-	-2500.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-300.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
1.3		Mandatory periodical servicing and cleaning, not included in preventative maintenance items listed above				
		a) Statutory annual servicing of 2kg NH ₄ H ₂ PO ₄ fire extinguishers	No	10		
		 b) Statutory annual servicing of 2kg CO₂ fire extinguishers 	No	10		
		 c) Statutory annual servicing of 9kg DCP fire extinguishers 	No	19		
		d) Fire fighting procedures and training	No	2		
CARRIE	D FORWAF	D TO SCHEDULE MM 2.1	•			



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MM 2.2		MM 2.2 EMAHLATHINI - MAINTENANCE OF HEATING, VENTILATION AND AIR- CONDITIONING SYSTEMS				
1.1	SA.01	Maintenance of completed installation				
		a) Heating, Ventilation and Air-conditioning	Point	360		
1.2		Payment reduction:				
	SA.04	a) Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown	Day	-	-2500.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-300.00	Rate Only
1.3		Mandatory periodical servicing and cleaning, not included in preventative maintenance items listed above				
		Provide full service of Air-conditioning units according to manufacturer's specifications (Bi- Annually)				
		a) Mid-wall split unit	No	20		
		b) Thru-wall unit	No	1		
CARRIEL	D FORWAH	RD TO SCHEDULE MM 2.2				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
ММ 3.1		MM 3.1 BOTHASHOOP - MAINTENANCE OF FIRE FIGHTING EQUIPMENT				
1.1	SA.01	Maintenance of completed installation				
		a) Fire fighting equipment	Point	360		
1.2		Payment reduction:				
	SA.04	 Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown 	Day	-	-2500.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-300.00	Rate Only
	SA.07	d) Call-out for repair of Emergency Breakdown (24 hours) response	No	3		
1.3		Mandatory periodical servicing and cleaning, not included in preventative maintenance items listed above				
		a) Statutory annual servicing of 2kg NH ₄ H ₂ PO ₄ fire extinguishers	No	1		
		 b) Statutory annual servicing of 2kg CO₂ fire extinguishers 	No	3		
		 c) Statutory annual servicing of 9kg DCP fire extinguishers 	No	13		
		d) Fire fighting procedures and training	No	2		
CARRIE	D FORWAF	RD TO SCHEDULE MM 3.1				



ITEM NO	PAYMENT REFERS TO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
MM 3.2		MM 3.2 BOTHASHOOP - MAINTENANCE OF HEATING, VENTILATION AND AIR- CONDITIONING SYSTEMS				
1.1	SA.01	Maintenance of completed installation				
		a) Heating, Ventilation and Air-conditioning	Point	360		
1.2		Payment reduction:				
	SA.04	 Payment reduction due to exceeding maximum allowable down-time during Emergency Breakdown 	Day	-	-2500.00	Rate Only
	SA.05	 b) Payment reduction due to exceeding maximum allowable down-time during Ordinary Breakdown 	Day	-	-300.00	Rate Only
	SA.06	 c) Payment reduction due to exceeding maximum allowable down-time during Malicious Damage Repair 	Day	-	-300.00	Rate Only
1.3		Mandatory periodical servicing and cleaning, not included in preventative maintenance items listed above				
		Provide full service of Air-conditioning units according to manufacturer's specifications (Bi- Annually)				
		a) Mid-wall split unit	No	17		
		b) Thru-wall unit	No	1		
CARRIED FORWARD TO SCHEDULE MM 3.2						



Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

MECHANICAL MAINTENANCE WORKS SUMMARY PAGE

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

	CONTRACTOR
SCHEDULE NO MM 1.1: MAHAMBA	
FIRE FIGHTING EQUIPMENT	
SCHEDULE NO MM 1.2: MAHAMBA	
HEATING, VENTILATION & AIR-CONDITIONING	
SCHEDULE NO MM 2.1: EMAHLATHINI	
FIRE FIGHTING EQUIPMENT	
SCHEDULE NO MM 2.2: EMAHLATHINI	
HEATING, VENTILATION & AIR-CONDITIONING	
SCHEDULE NO MM 3.1: BOTHASHOOP	
FIRE FIGHTING EQUIPMENT	
SCHEDULE NO MM 3.2: BOTHASHOOP	
HEATING, VENTILATION & AIR-CONDITIONING	

F

SECTION TOTAL CARRIED FORWARD



NATIONAL DEPARTMENT OF PUBLIC WORKS

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

PART C3: SCOPE OF WORK

C3.1: STANDARD SPECIFICATIONS



PG-01.1 (EC) SCOPE OF WORKS – (GCC (2010) 2nd EDITION: 2010)

Project title:	service provider/s for the r	Intry: Mahamba, Emahlathini and Bothashoop: Appointment of a s/s for the maintenance and repairs of building, civil, mechanical, tructure and installations at the three (03) ports of entry for a nths		
Tender no:	H21/006 AI	Reference no:		

C3. Scope of Works

CONTENTS

- C3.1 STANDARD SPECIFICATIONS
- C3.2 PROJECT SPECIFICATIONS

A: GENERAL

- PS-1 PROJECT DESCRIPTION
- PS-2 DESCRIPTION OF SITE AND ACCESS
- PS-3 DETAILS OF CONTRACT
- PS-4 CONSTRUCTION AND MANAGEMENT REQUIREMENTS
- PS-5 CONSTRUCTION PROGRAMME
- PS-6 SITE FACILITIES AVAILABLE
- PS-7 SITE FACILITIES REQUIRED
- PS-8 REQUIREMENTS FOR ACCOMMODATION OF TRAFFIC
- PS-9 OCCUPATIONAL HEALTH AND SAFETY
- PS-10 ADVERSE WEATHER CONDITIONS
- NOTE: This is an example only. Compiler / Designer to provide the applicable contents.

B: AMENDMENTS TO THE STANDARD SPECIFICATIONS N/A

C3.3 PARTICULAR SPECIFICATIONS N/A



Tender no: H21/006 AI

C3.1 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:

Please Refer to attached Standard Specifications

SANS 1200 A : General

SANS 1200 AA : General (Small Works)

SANS 1200 AB : Engineer's Office

SANS 1200 C : Site Clearance

SANS 1200 D : Earthworks

SANS 1200 DB : Earthworks (Pipe Trenches)

SANS 1200 DM : Earthworks (Roads, Sub-grade)

SANS 1200 GA : Concrete (Small Works)

SANS 1200 G : Concrete (Structural)

SANS 1200 L : Medium-pressure pipelines

SANS 1200 LB : Bedding (pipes)

SANS 1200 LC : Ducting

SANS 1200 LD : Sewers

SANS 1200 LE : Stormwater

SANS 1200 LK : Valves (Medium Pressure)

SANS 1200 MK : Kerbing and channelling

SANS 1200 MJ : Segmented Paving

SANS 2001 DP2 : Construction works 9 Part Dp2 (Medium Pressure pipelines)



Tender no: H21/006 AI

C3.2 PROJECT SPECIFICATIONS:

Status

The Project Specification, consisting of two parts, forms an integral part of the contract and supplements the Standard Specifications.

Part 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.

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.

A GENERAL

PS-1 PROJECT DESCRIPTION:

Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months

Refer To Additional Specifications Document attached



Tender no: H21/006 AI

B: AMENDMENTS TO THE STANDARD SPECIFICATIONS:

N/A



Scope of Works - GCC PG-01.1 (EC)

Tender no: H21/006 AI

C3.3 PARTICULAR SPECIFICATIONS:

N/A



CONTENTS

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3. SB – OPERATING AND MAINTENANCE MANUALS	36
4. SD – GENERAL TRAINING	43
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1. ADDITIONAL SPECIFICATIONS SUMMARY

The Department of Public Works has appointed, ETL Consulting to render professional services for the implementation of a 36-month Repair and Maintenance contract at Bothashoop, Emahlathini and Mahamba Land Ports of Entry (LPOE).

This contract entails the remedial works and maintenance of Buildings, Civil, Mechanical and Electrical infrastructure, and installations. The standard specifications applicable to this project is listed below.

- 1.1. SA General Maintenance
- 1.2. SB Operating and Maintenance Manuals
- 1.3. SD General Training
- 1.4. SF General Operation
- 1.5. SH HIV/AIDS Requirements Refer to PW 1544
- 1.6. SN Occupational Health and Safety Refer to Rev H&S Spec Guideline Oct 2015 (PW Standard H&S Document)





2. SA – GENERAL MAINTENANCE

2.1. Scope (SA 01)

Maintenance of the specified systems, services and/or parts of buildings and infrastructure shall all be referred to as "Maintenance of an Installation". Maintenance of all completed installations shall ensure reliable functioning and optimum service life thereof. Monthly maintenance responsibilities for each installation including all units and components as specified shall commence with access to the Site.

Maintenance of an installation shall be performed in accordance with the Technical and Particular Specifications, the Operating and Maintenance Manuals (where applicable) and the Maintenance Control Plan.

Remuneration for maintaining "installations" (systems, services and/or buildings and parts of the infrastructure) in good functional condition is provided for in the Schedules of Quantities by means of monthly payment items.

This Additional Specification covers maintenance requirements, development of a maintenance control plan, identification of equipment, site maintenance administration, maintenance performance measurement, as well as the items for measurement of the Contractor's service level and resulting payment.

The residential area at the Mahamba, Emahlathini and Bothashoop Ports of Entry form part of an existing Repair and Maintenance Programme.

The various installations are in good working order. These places the emphasis of this Contract on maintenance. No distinction will be made between prior to practical completion and completed installations for the purpose of maintenance.

The Contractor will have the opportunity at the start of the contract to point out items which are not in perfect working order which in turn will be serviced/repaired as per the relevant tendered rates. 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 all defective items part of the Contractor maintenance responsibly as set out in the relevant specifications.

The Contractor will furthermore at the start of the contract perform annual maintenance on all the installations as per the items listed in the different specifications as part of the Contractor's maintenance obligation.





Maintenance of each of these installations will be the responsibility of the Contractor and will be evaluated monthly by the Engineer. The remuneration for maintenance work and repressibilities will be certified accordingly.

2.2. Maintenance & Servicing Approach (SA 02)

The Contractor is expected to be represented on site full time. The Contractor must allow for the appointment of a qualified project manager to be available onsite on a full-time basis for the duration of the contract.

2.2.1. Routine Preventative Maintenance Visits (SA 02.01)

When submitting the Maintenance Control Plan (MCP), the Contractor shall schedule routine preventative maintenance visits to the site. A routine preventative maintenance visit shall be scheduled for the intervals as indicated in the table below.

Installation	Frequency of Routine Maintenance Visit	Minimum Duration of Routine Maintenance Visit
Mahamba Port of Entry	5 days a week	8 hours
	(Monday to Friday)	
Emahlathini Port of Entry	5 days a week	8 hours
	(Monday to Friday)	
Bothashoop Port of Entry	5 days a week	8 hours
	(Monday to Friday)	

The duration of the routine preventative maintenance visits will depend on a time required to complete all routine preventative maintenance, corrective maintenance as well as breakdowns logged during the month as specified. However, a routine preventative maintenance visit may never be less than the minimum period specified in the table above. The Engineer will carry out a site inspection on any arbitrary day and measure the quality of maintenance and servicing. The Engineer will also inspect correction/repair of breakdowns that were logged.

The Contractor should indicate to the Engineer within 21 days after the site handover the days of the week which he will visit the site for his scheduled routine preventative maintenance visit including the various resources allocated for the different preventative maintenance actions, site keeping and cleaning services to be performed (at least 6 months in advance). Qualified electrician and plumber should also be available for the above-mentioned dates.




2.2.2. Emergency Breakdown Visit (SA 02.02)

Whenever an emergency breakdown is logged with the contractor, an emergency breakdown repair visit shall be carried out by the contractor to attend to the repair of the emergency breakdown within 12 hours after it was logged with the contractor.

Remuneration for the material and labor required to attend to repair of the emergency breakdown shall be deemed included in the payment item for maintenance of an installation based on a point system and measured monthly. Payment for the emergency breakdown repair visit will be measured separately in the schedule of quantities to cover the cost of the call-out, in terms of travel and accommodation cost, including travel time and any cost associated with the call-out. No payment for the emergency breakdown repair visit shall be done if the call-out coincides with any of the monthly visits as listed in SA 02.01.

The Contractor will only be remunerated for emergency breakdown repair visits upon instruction of the Engineer or his representative.

Typically examples of emergency repair breakdown visits would be:

- A breakdown of any standby power generator that prevents the standby power generator from operating at its capacity and meeting the demand.
- A breakdown of any water supply pump or any other component of the water supply or bulk water Installation that affects the water supply to such an extent that it cannot meet the demand.
- A breakdown of the water reticulation network or sewer reticulation network that affects water supply or sewer removal to such an extent that the services disrupted to any site.
- A breakdown of site electrical or building electrical that disrupts power supply to a building (including residential unit).
- A breakdown of a geyser that prevents it from supplying hot water as per specification.
- Any other breakdown that can be regarded as having the potential to cause damage to equipment or property and is included in the scope of work to be maintained and serviced by the Contractor, as per specifications. The Engineer or his representative will be responsible for categorizing breakdown as an emergency.

2.3. Maintenance Requirements (SA 03)

2.3.1. Contractors Responsibilities (SA 03.01)

The Contractor shall maintain the complete installations for the 36-month Contract period. Maintenance implies and shall Include monthly preventative maintenance, corrective maintenance, as well as breakdown maintenance on all components of the specified installations.





The maintenance control plan (specified in Clause SA 03) will be developed by the Contractor, to schedule the frequency of routine inspections and format of reports. The Contractor shall carry out inspections on the equipment as detailed in the Technical and Particular Specifications and the maintenance control plan. Each Inspection, test or breakdown shall be recorded in an approved format and listed in a quarterly report (part of the maintenance control plan).

As part of repair of each installation, the Contractor shall submit a set of Operating and Maintenance Manuals where applicable. The Contractor shall ensure through training that: the operating and maintenance personnel are conversant with the instructions as presented in the Operating and Maintenance Manuals. Continued training shall be included in the scope of maintenance work for the duration of the 36-month Contract, in accordance with additional specification SD: General Training.

The Operating and Maintenance Manuals, as approved by the Engineer, shall be used as a basis of preventative maintenance. The Contractor shall perform all preventative and corrective maintenance as described in the Operating and Maintenance Manuals. This shall be in accordance with the Technical and Particular Specifications.

The Contractor shall, as part of his maintenance responsibilities repair or replace faulty equipment upon logging of a breakdown, within the downtime as defined in Clause SA05.02 at e Contractor's cost. The Contractor shall rectify any faulty condition of which he becomes aware, even if it has not been logged. Such rectification shall also be logged and listed in the quarterly report.

2.3.2. Conditions for Exceeding the Contractor's Liability Due to Operational Damage Breakdowns (SA 03.02)

Irrespective the definition of operational damage given in the Oxford dictionary, it shall be defined for the purpose of this clause as being any damage caused on purpose or through negligence by the User Department's employees, suppliers, subcontractors, etc. for any reason whatsoever. For this clause, operational damage and vandalism shall have the same meaning. Where repair work is necessitated because of operational damage caused by User Departments or their associates, the Contractor will be requested to:

- Perform work, using tendered rates for the supply, delivery and installation of materials forming part of the repair work schedule, within the maximum down-time allowed for operational damage, where the Engineer rules that the damage has been caused by incorrect operation.
- Submit one (1) quotation for repair and/or replacement of the damaged unit, where tendered
 rates are not available and where the Engineer rules that the damage had been caused by
 incorrect operation.





• Perform the work on receipt of an order from the Engineer, within the time offered as part of the quotation, and notify the Engineer as-well in advance of completion of the repair work in order to enable inspection

The responsibility of determining whether damage to the installation was caused by people other than employees or associates of the Contractor shall rest with the Engineer. Damage caused by the employees, suppliers, subcontractors, etc. of the Contractor, shall be repaired by the Contractor at his own cost.

2.3.3. Conditions for Exceeding the Contractor's Liability Above Marginal Breakdown Cost (SA 03.03)

In the event where the cost for the repair or replacement of any single component/subassembly where a breakdown has occurred due to a single failure, or where the cost for replacing a single item of equipment completely, exceeds the value of R 15 000,00 (transport, accommodation and travelling cost excluded), the liability of the Contractor is limited to the value of R 15 000,00. The additional cost above the value of R 15 000,00 will be paid for by the Employer if conditions 1, 2 and 3 below have been met.

The defective part/ component, assembly or machine must be identifiable as a single subassembly or component and not the total of a number of small defects or breakdowns on subassemblies/components on any one or more machines.

Examples of subassemblies/components are the following:

- Should the wiring or bearings on an electric motor fail, the complete motor must be removed for repairs and the cost for the repairs on the complete motor will be regarded as repairs on a single subassembly/component.
- A starter motor, for example, is a subassembly, which can be removed from the machine for repairs. The repairs on the starter motor together with the repairs on the main bearings will not be regarded as a repair on a single subassembly/component. If the complete diesel engine is replaced with its associated subassemblies the replacement of the complete unit will be regarded as a single component.
- A pump as a whole Is regarded as a single component. The pump and driving machine on long coupled pumps are regarded as separate subassemblies. Pumps and motors on close-coupled equipment are regarded as a single component. The pump and motor of a sump pump are therefore regarded as a single component.
- Control equipment for the control of a single item, with the sensing device, the controller itself and the final controlled variable are regarded as a single component of the system. The repairs on any one item on a controller have an influence on the rest of the control equipment and must after the replacement be commissioned again as a unit.





The Contractor shall submit a written report to the Engineer for approval. This report shall contain the following information:

- The make and model number of the machine serviced/inspected/ repaired/replaced.
- The identification number of the machine.
- A description or name and part number of the defective part, component, or subassembly.
- A statement on whether the component could be repaired, together with a cost estimate.
- A quotation valid for a minimum period of 60 days if the component/part/ subassembly must be replaced or repaired by an outside firm. If the subassembly/machine is to be repaired or replaced by an outside company, the Contractor shall supply one (1) quotation for such parts/repairs or a quotation from any sole supplier. Only an original quotation will be accepted. The mark-up on such work shall be a percentage as tendered and shall be applicable to the total cost (VAT excluded) of repair work by outside companies.
- The expected urgency for the replacement or repairs, and the delivery time of a new component/subassembly/ machine or delivery times on spares required to repair the defective component/ subassembly.

A written approval to proceed with the work must be issued by the Department. Copies of the original VAT invoices from outside companies for all repairs or spare parts supplied must be attached to the Contractors invoice.

2.3.4. Emergency Breakdown Repair Visit (SA 03.04)

Whenever an emergency breakdown is logged at a site where no access has been given the Contractor, an emergency breakdown repair visit shall be carried out by the Contractor to attend to the repair of the emergency breakdown within 24 hours after it was logged with the Contractor.

Remuneration for the material and labor required to attend to repair of the emergency breakdown shall be deemed included in the payment item for maintenance of an installation based on a point system and measured monthly. Payment for the "emergency breakdown repair visit will be measured separately in the schedule of quantities to cover the cost of the call-out, in terms of travel and accommodation cost, including travel time and any other cos associated with the call-out.

The Contractor will not be remunerated for emergency breakdown repair visits once the specific installation or site has been completed (Completion Certified). The contractor will be remunerated for maintenance and attending to emergency breakdowns as per his payment item for maintenance of a completed installation based on a point system as measured monthly.





2.3.5. Commencement of Maintenance Period (SA 03.05)

Maintenance responsibilities for an installation prior to practical completion of repair work shall include maintenance of all individual units, equipment or components thereof, for which no repair work is required (as per the contract document) or for which the repair work has not yet started and shall commence with access to the installation.

Where access to an installation with a view to commence repair work Is delayed, then the maintenance responsibilities which in such cases will consist of keeping the Installation in the condition it is in, shall commence immediately at the start of the Contract.

Such maintenance before access is obtained, shall consist for example of fixing leaks without replacing pipework or opening a blocked pipeline without further altering or inspecting such pipes.

The Contractor shall accept full maintenance responsibilities for each completed installation upon issue of a Certificate of Practical Completion for repair work of that installation.

The preliminary construction program different dates between commencement of maintenance on various installations.

2.3.6. Preventative Maintenance Definition (SA 03.06)

This entails the rendering of services and servicing of equipment according to a predetermined maintenance control plan to:

- Replace and service components of equipment, units or parts thereof for each installation at prescheduled moments regardless of condition.
- Readjust, reset, clean, corrosion protect all components of equipment, units or parts thereof for each installation.

Preventative maintenance shall be aimed at minimization of breakdowns.

2.3.7. Corrective Maintenance Definition (SA 03.07)

This entails regular observation of the equipment, identifying pending breakdowns, maladjustment or anomalies of equipment, units or parts of installations and subsequent action to restore installations to the functional condition as before the breakdown.





2.3.8. Breakdown Maintenance Definition (SA 03.08)

This entails repair and/or replacement of defective equipment, units or parts of installations following a breakdown that leaves the installation inoperable or unsafe, and subsequent action to restore installations to their normal functional condition, within the maximum down- time allowed.

2.3.9. Operational Damage Breakdown Maintenance Definition (SA 03.09)

This entails repair and/or replacement of defective equipment or damaged equipment, units or parts of installations following a breakdown that leaves the installation inoperable or unsafe, and subsequent action to restore installations to their normal functional condition, within the maximum down-time allowed.

Typical examples of operational damage breakdown visits would be:

- A Breakdown of any structural items such as locks, window handles and stays, windows, doors, and any other structural related items.
- A Breakdown of any plumbing, drainage, or sanitary ware related Items.
- A Breakdown of any electrical related items.
- Any other damaged items not caused by normal wear and tear.

2.3.10. Site Maintenance Record Keeping (SA 03.10)

The Contractor shall provide and maintain hard-cover A4 maintenance files for each installation for the duration of the Contract. All schedules, checklists, breakdown reports, preventative maintenance records, component replacement records and quarterly reports shall be filed, together with information regarding repairs exceeding the Contractor's liability, as set out in SA 03.02 and SA 03.03.

Site maintenance records shall be submitted at each monthly meeting.

2.4. Maintenance Control (SA 04)

2.4.1. Scope (SA 04.01)

Maintenance quality control shall be the responsibility of the Contractor. The Contractor shall introduce a maintenance control plan to assist him in ensuring that preventative, corrective, and breakdown maintenance are performed as described in the operating and maintenance manuals and Specifications.

2.4.2. Preliminary Maintenance Control Plan (SA 04.02)

A preliminary version of the maintenance control plan shall be submitted with the program and the framework of the preliminary version shall be as close as possible to that of the final maintenance control plan as specified.





Details contained in this preliminary maintenance control plan shall include:

- Actual time that a representative of the Contractor will be present on Site for the duration of the maintenance period.
- The scope and frequency of routine inspections.
- Repair methodology.

2.4.3. Maintenance Control Plan (SA 04.03)

The maintenance control plan shall be based on the Contractor's preliminary maintenance control plan, and shall be bound in a neat, A4-sized, ring-bound document with a cover page and back cover. The contents of the document shall be indexed.

In drawing up the document, the Contractor may reproduce relevant paragraphs and clauses from any of the specifications forming past of the Contract documents but should there be any discrepancies between such clauses and paragraphs in the maintenance control plan and those in the Contract documents, those in the Contract documents shall be regarded as being correct and shall apply.

To ensure that the Engineer is satisfied that the Contractor understands the purpose and advantage of carrying out maintenance work according to a maintenance control plan he shall, as an introduction to the control plan document, set out his views as to what he believes the implementation of a maintenance control plan will achieve.

The maintenance control plan shall also contain the following:

- A summary of the repair and maintenance work to be carried out under the Contract giving
 details of the conditions of the various installations at the facility affected by the activities
 under the Contract. The Contractor shall bear in mind that maintenance work may have to be
 carried out before the repair phase of the installation has been entirely completed and the
 summary mentioned above shall therefore differentiate between maintenance work before
 and after the repair phase has been completed.
- Details of how the Contractor intends to carry out the various types of maintenance work especially breakdown maintenance should breakdowns occur.
- Details of how the call center works, as specified as well as all statistics of breakdowns, leakages, blockages, etc. available from the calf center for the installation and the age of the installation that has been taken into account in compiling the contents of the maintenance control plan.
- A list of organizations and persons directly involved with the Contract or whose requirements have to be taken into account during the entire Contract Period such as the Department of Public Works, the User Department, the Consulting Engineer, the Contractor, the Local





Authority, etc. Each person's position within his organization as well! as the applicable phone numbers shall be given.

- Details of monthly meetings to be hold with the Department of Public Works the User Department, Contractor and Engineer.
- Reports to be submitted after every routine inspection (all reports, checklists, breakdown records, score card results, etc. for each system of an installation shall be kept on the site in a hard cover file).
- Procedures to address complaints and togged breakdowns.
- Details of quarterly reports, summarizing all inspections, together with inspection data such as
 nature of test, names of persons carrying out tests and inspection results. Detail of repairs
 and replacements, together with testing of repaired equipment shall also be reflected in this
 report.
- Assistance to be given by the Engineer with decisions regarding material, equipment and other recommendations.

The codes of practice as set out in ISO 10006 and JSO 9004 for quality systems and management shall be used as a guideline for compiling a maintenance control plan. ISO accreditation is not a requirement in terms of this Contract.

The maintenance control plan shall be upgraded when its contents are no longer representative of actual conditions.

The Contractor shall check the contents of existing Operating and Maintenance Manuals (if available) and shall update or modify and then incorporate applicable data into his own manuals. Where no manuals exist, the Contractor shall draw up his own Operating and Maintenance Manuals.

Pertinent data contained in the Operating and Maintenance Manual may be transferred to the Maintenance control plan to make it a document which can be used as an independent handbook for maintenance work.

The Contractor is referred to the contents of paragraph above regarding the reproduction of data, as this shall also be applicable to data reproduced from Operating and Maintenance Manuals.

2.5. Communication (SA 05)

The maintenance control plan will provide, after agreement between the Contractor and the Engineer, for the following communication and complaint logging procedure:

• The Contractor shall establish a telephone and fax line and a cellular telephone connection to ensure that he can be reached at any time.





- The Contractor shall primarily be responsible for determining the items requiring preventative, corrective and breakdown maintenance, and shall communicate this information directly to his maintenance workforce.
- Should the Engineer or operating personnel of the User Department determine or suspect that preventative, corrective or breakdown maintenance is required, a call shall be logged through the call center to reach the Contractor as soon as possible.
- All complaints of the User Department shall be reported to the Engineer via the call center, as set out in the maintenance control plan, and the Engineer shall issue instructions to the Contractor. After the Contractor has attended to the complaint, the Engineer will provide feedback to the call center both telephonically and via fax.

2.6. Performance Measure (SA 06)

The contractor's performance shall be measured against the following parameters.

2.6.1. Special Testing of Installations (SA 06.01)

The Engineer may at any time inspect any part of the entire installation. During Maintenance work, the Engineer shall at his discretion order special tests to be carried out on complete installations at intervals of not less than four months, to verify the satisfactory functional! condition of the installation.

The Engineer reserves the right to select at random component equipment and trade practices to be tested by independent authorities for compliance with specifications as specified in this Contract document.

The Contractor shall provide all equipment, tools and instruments required for testing.

2.6.2. Maximum Maintenance Downtime (SA 06.02)

After a complaint has been logged and forwarded to the Contractor, the Contractor shall be expected to minimize the maintenance down-time until the system component is fully operational to the satisfaction of the Engineer. Should the Contractor not respond within the maximum down-time, the Engineer may arrange, at the cost of the Contractor, for the necessary repair work to be done by others.

Should the actual down-time exceed the maximum down-time the Contractor shall be liable to a payment reduction for the difference between actual down-time and maximum down-time.

Maximum downtime shall mean the period allowed to repair a breakdown, and actual down-time shall mean the measured period from the instant when the breakdown was logged with the Contractor until the installation has been repaired to its functional specification.





Immediate response repairs shall imply breakdown maintenance repair work where the breakdowns are allowed at any time in terms of the Technical Specification.

Emergency maintenance repairs shall imply any breakdown maintenance repair work required to rectify a component or unit of the installation that disables the installation from functioning at its designed maximum requirement in terms of the Technical Specification.

Ordinary maintenance repairs shall imply all breakdown maintenance repair work required other than immediate response or emergency maintenance repairs.

Operational damage repairs shall imply all operational damage breakdown repair work required on any other damaged items not caused by normal wear and tear and shall also include structural! related breakdowns.

2.6.3. Performance Based Payment (SA 06.03)

Remuneration for all value related as well as all time-related preliminary and general charges shall be deemed included in the monthly maintenance payments for the various Installations.

2.6.3.1. Scorecard (SA 06.03.01)

The Engineer shall inspect each installation monthly after Practical Completion of the repair phase of the installation. The Engineer shall use a scorecard to measure the quality of preventative and corrective maintenance rendered by the Contractor during the preceding month, on all components that form part of the installation, in accordance with the maintenance specifications. The Engineer will record his inspection directly onto the scorecard. The scorecard shall serve to evaluate ten performance indicators each month. for all value related as well as all time-related preliminary and general charges shall be deemed included in the monthly maintenance payments for the various Installations.

2.6.3.2. Performance Indicators (SA 06.03.02)

Performance indicators shall be selected to measure the Contractor's service level of preventative and corrective maintenance.

The Engineer shall have the opportunity to select ten (10) performance indicators each month, which shall focus on the measurement of maintenance quality against the relevant specifications for the ensuing month. All ten (10) performance indicators are known to both the Engineer and the Contractor.

The Contractor shall aim to perform satisfactorily on all ten performance indicators. All indicators shall be selected from the scope of his normal preventative and corrective maintenance work and shall be





based on the maintenance control plan and operating and maintenance manuals. The work shall either be satisfactory, or unsatisfactory, and the Contractor shall score one (1) or zero (0) respectively per indicator.

Performance indicators shall be used to focus on certain key aspects of the work and shall in no way limit the Contractor's responsibility to do all the required work

2.6.3.3. Satisfactory Performance (SA 06.03.03)

The Engineer shall inspect the site on an arbitrary day to measure the quality of maintenance against the ten selected performance indicators. Should the Contractor score the maximum points (10) he shall receive his full maintenance payment for the installation. Should the quality of preventative maintenance, or components requiring persistent corrective maintenance be unsatisfactory according to the scorecard, the Contractor may fail to achieve full payment due to a reduced service level. Each monthly payment for maintenance shall be subject to evaluation based on the scorecard.

A copy of the scorecard including a guideline for the use thereof is included in this Specification.

2.7. Satisfactory Performance (SA 07)

The preventative maintenance actions for the various installations for preventative maintenance are described in this section. Remuneration for maintenance of the infrastructure shall be deemed included in the tendered monthly payment for the respective installations.

The said maintenance and servicing work shall be executed in accordance with the relevant codes of the practice, standards, regulations, municipal laws and by-laws and the manufacturer's specifications and codes of practice.

The maintenance schedules and frequency shall be developed under the maintenance control plan to be instituted by the Contractor.

The maintenance and servicing work to be performed and executed shall include but not be limited to the items listed below. These actions and findings shall be logged and reported on the relevant approved schedules and reports forming part of the Maintenance Control Plan.

The Ports of Entry consists of various facilities. The preventative actions required are divided into maintenance installations and grouped as follows:

- 1. Plumbing and Drainage
 - SA 07.01 Plumbing and Drainage Installations





- 2. Electrical Installations
 - SA 07.02 Electrical Installations
- 3. Fencing. Refuge Removal and Pest Control
 - SA 07.03 Fencing
 - SA 07.04 Refuge Removal and Pest Control
- 4. Cleaning and Site Keeping
 - SA 07.05 -Cleaning and Site Keeping
- 5. External Water and Sewer Networks
 - SA 07.06 Water Distribution Networks
 - SA 07.07 Water Reservoirs and Storage Tanks
 - SA 07.08 Borehole Pump Systems
 - SA 07.09 -Water Pump Systems
 - SA 07.10 Sewerage Networks
- 6. Roads and Stormwater Drainage
 - SA 07.11 Roads
 - SA 07.12 Stormwater Drainage
- 7. External Lighting and Standby Power
 - SA 07.13 External Lighting
 - SA 07.14 Low Voltage Distribution Networks
 - SA 07.15 Standby Power Systems
- 8. Heating Ventilation and Air-Conditioning Systems
 - SA 07.16 Heating, Ventilation and Air-Conditioning Systems
- 9. Fire Fighting Equipment
 - SA 07.17 Fire Fighting Equipment





2.7.1. Plumbing and Drainage (SA 07.01)

Rainwater Disposal System:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Clean out and clear all rainwater gutters and full bores	Bi-monthly
2	Clean out and clear all catch pits, channel drains and floor	Bi-monthly
	outlets	
3	Clean and unblock all pipes	Bi-monthly
4	Check alignments of gutters	Six-monthly
5	Check and inspect all rainwater outlet gratings and replace if	Six-monthly
	necessary	
6	Check gutter and pipe bracketing systems	Four-monthly
7	Check and inspect manhole covers and frames for damage	Monthly

Soil and Wastewater Drainage system:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Check, inspect and clean out all gullies	Monthly
2	Replace broken or missing gully gratings	Monthly
3	Check, inspect, repair, or replace all manhole covers and frames	Bi-monthly
4	Check, inspect and repair manhole benching	Four-monthly
5	Check, inspect, repair, or replace all inspection eyes, end caps and cleaning eye covers	Monthly
6	Check, inspect, repair, or replace all bracketing systems	Four-monthly
7	Check, inspect, report, and unblock any blockage that occurs	Monthly
8	Check, inspect, service, repair/replace all vacuum and two- way vents	Four-monthly

Domestic Water Distribution and Reticulation system:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Check, inspect, report, and repair all leaks	Monthly
2	Replace all valve gaskets, gland packings and seals	Annually
3	Check, inspect, repair and readjust all pressure-reducing valves	Annually
4	Check, inspect and test operation of all valves on site	Four-monthly
5	Clean out all strainers	Monthly
6	Check, inspect, service test and repair/replace all safety and	Six-monthly
	expansion release valves	
7	Check, inspect, repair, or replace all bracketing systems	Four-monthly
8	Check, inspect, service, repair/replace all air release valves and	Four-monthly
	vacuum breakers	
9	Check, service, repair or replace all ball-float valves	Four-monthly
10	Check, inspect, test, service and repair all geyser installations	Four-monthly
11	Check, inspect, test, service and repair all non-return valves	Four-monthly





Sanitary and Brassware Equipment:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Inspect, repair/replace WC seats and covers	Monthly
2	Replace all tap washers	Annually
3	Replace all tap gland packings	Annually
4	Check, inspect, repair, fix and where necessary replace sanitary ware mountings and brackets	Four-monthly
5	Check, inspect, service, repair/replace all cistern flushing	Monthly
6	Check, inspect, service, repair/replace all brassware	Four-monthly
7	Check, inspect, service, repair/replace all sanitary ware	Four-monthly
8	Check, inspect, service, repair/readjust all flushing valves	Four-monthly
9	Repair all flushing valve internal parts with replacement kits	As occur
10	Stained equipment to be cleaned with approved manufacturer's cleaning agent	Six-monthly
11	Check, inspect, report, and repair all leaks	Monthly
12	Check, inspect, repair/replace all shower gratings	Four-monthly
13	Check, inspect, repair, service, replace all missing valves	Six-monthly
14	Replace missing tap handles	As occur
15	Replace missing bath, basin, sink, plug, etc.	As occur

2.7.2. Electrical Installations (SA 07.02)

2.7.2.1. Monthly Maintenance (SA 07.02.01)

- Check operative protective and monitoring devices.
- Verify operation of switching elements and meters.
- Check lamp operation.
- Measure phase voltages and currents in distribution board and record values in Record book.
- Inspect and repair the following:
 - o any visible damage to the installations.
 - o setting of protective and monitoring devices
- Ensure upkeep of the labelling of the distribution board, equipment, cabling, and wiring.
- Ensure presence of labelling on face plates or bodies of light switches, socket, outlets and isolators.

2.7.2.2. Annual Maintenance (SA 07.02.02)

- Service all luminaries, distribution boards, socket outlets, isolators, light switches, etc.
- Witnessed testing of all earth leakage protection units on all socket outlet units.
- Visually inspect the following and repair if required:
 - Connection of cables and conductors including earthing and bonding.
 - Presence of appropriate devices for isolation and switching.
 - o Correct connection of socket outlets, fight switches, isolators, lamp holders., etc.





2.7.3. Fencing (SA 07.03)

Maintenance shall include replacing of components, fixing defects, tightening, redressing or any other actions or rectifying measures necessary for complete operation of the fencing installation. This shall include keeping the installation free of litter or any other element interfering with the function or integrity of the system, 0,5 wide on each of the fence.

2.7.3.1. Monthly Maintenance (SA 07.03.01)

- Check Clearing the fence route.
- Inspect and repair ant visible damages to installation.
- Corrosion protection on fencing, gates, and tubular posts.
- Inspect fence for tightness to straining wire redress of repair or repair of necessary.
- Inspect tension of straining wires and repair if necessary.

2.7.4. Refuge Removal and Pest Control (SA 07.04)

The whole of the site within the perimeter fences of the ports of entry shall be kept free of litter, rubble, and solid waste. Litter and rubble (solid waste) shall be collected, stored by the Contractor, and removed from site as frequently as necessary

Removal of household solid waste to the municipal dump site will be carried out by the Contractor. The cleanliness of the site will be the sole responsibility of the Contractor. Garden refuse may be amongst the litter rubble to be collected and disposed of by the Contractor.

The tendered monthly payment for maintenance for site keeping shall be deemed to include to continuously collecting litter and rubble across the entire site, placing it in a central solid waste container (skip) and removing it off-site to a formal waste facility.

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Cleaning out all waste bins in public areas	Daily
2	Cleaning out all waste bins at residential units	Weekly
3	Collect litter, rubble, and other waste across the entire site within the perimeter fences of the ports of entry and place in central solid waste container (skip)	Continuously
4	Re-fill all rodent bait stations	Monthly
5	Internal pest, termite, and rodent control	Monthly
6	External pest, termite, and rodent control	Monthly

2.7.5. Cleaning and Site Keeping (SA 07.05)

The Contractor shall further be responsible for supplying and maintaining the grass cutting equipment in a perfect working condition





2.7.5.1. Site Keeping (SA 07.05.01)

Site keeping activities will include providing all equipment and consumables necessary for site keeping, such as lawn mowers, brush-cutters, rakes, fuel, shovels, etc., and shall be deemed included in the monthly maintenance cost for Site keeping and Cleaning.

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Cleaning out of and supply of black waste bin bags to all waste	Daily
	bins in public areas	
2	Cleaning out of all waste bins in residential areas	Weekly
3	Emptying the solid waste skip and removal of waste off-site to	Monthly
	approved dumping site	
4	Watering of plants, shrubs, grass and trees (only if water is	Daily
	readily available and instructed by engineer)	
5	Removal of weeds	Weekly
6	Clearing of weeds and grass along the edges of paved areas	Weekly
7	Cutting of grass (Lawns – no grass to exceed 40 mm & Open	Weekly
	areas 100 mm)	
8	Trimming dense shrubs	Bi-Monthly
9	Removal of undesirable shrubs	Quarterly
10	Trimming of trees where branches cause obstruction	Quarterly
11	Collecting of litter and foreign objects	continuous/ Daily

2.7.5.2. Cleaning of Offices, Ablutions and Support Facilities (SA 07.05.02)

The Contractor shall be responsible for cleaning ablution facilities as frequently as necessary to maintain them in a clean and healthy condition. The actions outlined below serve only as a benchmark for the cleaning and maintaining of the facilities.

Cleaning activities will include providing all cleaning agents and equipment necessary for cleaning. Consumables such as toilet paper, sanitizers, bin liners of she-bins, paper towels and hand wash soap will be replaced by the Contractor as and when necessary and shall be deemed include in the monthly maintenance cost for Site Keeping and Cleaning. It can be assumed that toilet paper will be consumed at 3 rolls per toilet (public ablution) per day (single ply), and hand washing soap at 2 liters per soap dispenser per month.





Cleaning Tasks for Office and Support Facilities:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Disinfect and cleaning of floors in public passage areas and	Daily (before opening of
	open plan offices	the port of entry)
2	Disinfect and cleaning of counter tops and under counter	Daily (before opening of
	shelves	the port of entry)
3	Emptying of waste baskets in offices and service buildings	Daily
4	Disinfect and cleaning of office floors/ Vacuum of carpets	Weekly
5	Washing of windows and dusting of windowsills and ledges	Weekly
6	Clean and polish all fittings	Weekly
7	Washing of walls	Weekly
8	Dusting of interior of the building to remove dust and spider	Weekly
	webs	

Cleaning Tasks for Ablution Facilities:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Disinfecting, cleaning and ensuring that the ablution facilities are in a pristine sanitary condition at all times	Continuous (daily)
2	Disinfect, washing and cleaning of floors	Continuous (daily)
3	Empty and clean all waste receptacles	Continuous (daily)
4	Clean and sanitise all bowls, basins and urinals	Continuous (daily)
5	Clean, sanitise and polish all fittings and mirrors	Continuous (daily)
6	Sanitising and cleaning out of she-bins	Continuous (daily)
7	Washing of windows and dusting of windowsills, ledges, pipes and fittings	Weekly
8	Disinfecting and washing of walls	Weekly
9	Dusting of interior of the building to remove dust and spider webs	Weekly

2.7.6. Water Distribution Networks (SA 07.06)

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Water Audit	Monthly
2	Clean out all strainers	Monthly
3	Check, inspect, repair or replace all bracketing systems	Four-monthly
4	Pant repairs to piping, fittings and equipment	Annually

Cleaning of Existing Pipelines:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Remove silt, debris, and loose lime deposits from within	Annually
	pipeline where required by scouring	
2	Do general cleaning in areas where leakage has occurred	Six-monthly





Fittings and Structures:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Replace all valves gaskets, gland packings and seals	Annually
2	Check, inspect, service, repair and readjust all pressure reducing valves	Annually
3	Check, inspect and test operation of all valves on site	Four-monthly
4	Check, inspect, service, test and repair/replace all safety and expansion release valves	Six-monthly
5	Check, inspect, service, test and repair/ replace all air release valves and vacuum breakers	Four-monthly
6	Check, service, repair or replace all ball float valves	Six-monthly
7	Clean out structures of debris	Four-monthly
8	Check, inspect, test, service and repair/replace all non-return valves	Four-monthly

2.7.7. Water Reservoirs and Storage Tanks (SA 07.07)

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Check for and repair all leaks	Monthly
2	Corrosion protection	Annually
3	Clean and sterilise pressed steel tanks	Annually

2.7.8. Borehole Pump Systems (SA 07.08)

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Service submersible pumps	Annually
2	Clean filters/ strainers	Three-monthly
3	Check V-belts (Lister Engine)	Monthly
4	Measure rest water-level	Three-monthly
5	Check and clean MCC panel	Three-monthly
6	Check electric motors	Monthly
7	Monitor supply to storage tanks from borehole	Daily

2.7.9. Water Pump Systems (SA 07.09)

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Check, service, repair and clean all pumps	Annually
2	Corrosion protect pumps, motors and surface piping	As required
3	Check, inspect, report and repair all leaks	Monthly
4	Check and lubricate moving parts	Four-monthly
5	Operation and supply of diesel for water pump at ports of	Daily
	entry	

2.7.10. Sewerage Networks (SA 07.10)

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Check, inspect, repair or replace all manhole covers and frames and builder's work to manholes	Four-monthly
2	Check, inspect and repair manhole benching	Four-monthly





3	Check, inspect, repair or replace all inspection eye, end caps	Four-monthly
	and cleaning eye covers	
4	Check, inspect, report and unblock any blockages that occurs	Monthly
5	Systematically mechanical cleaning of all sewer manholes	Monthly
	and unblocking of all sewer line	
6	Check, inspect, repair/replace sewer pipes where necessary to	Four-monthly
	always maintain good working condition	

2.7.11. Roads (SA 07.11)

All components of a roadway infrastructure, which includes the road surface, underlying layer works, kerbing, road markings, road sins and sidewalks, shall be maintained during the Contract.

Maintenance shall all repair work, replacing of components, fixing of defects, or any other actions or rectifying measures necessary for complete and safe functioning of the road infrastructure.

Maintenance of the road infrastructure shall also include all other actions related to maintenance, such as temporary accommodation of traffic through and around work areas, and provision of temporary accesses to properties.

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Check, inspect, repair all surface failures	Two-monthly
2	Check, inspect, repair all pavement failures	Six-monthly
3	Inspect and repair gravel shoulders	Six-monthly
4	Check, inspect, repair, repaint, replace road markings	Six-monthly
5	Remove loose material from the surface of parking areas monthly by means of mechanical brooming	Monthly

2.7.12. Stormwater Drainage (SA 07.12)

All components of the stormwater drainage infrastructure, including surface as well as underground components, shall be maintained during the contract.

Maintenance shall include all repair work, replacing of components, fixing of defects, cleaning, or any other actions or rectifying measures necessary for complete and safe functioning of the stormwater drainage infrastructure.

Maintenance on the stormwater drainage infrastructure shall also include all other actions related to maintenance, such as temporary drainage features and temporary accommodation of traffic.

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Check, inspect, repair or replace all manhole or inlet covers,	Four-monthly
	grids and frames and builder's work to manholes.	
2	Check, inspect and repair manhole and inlet benching.	Four-monthly
3	Check, inspect, report and unblock any blockage that occurs.	Monthly
4	Clean all vegetation and debris accumulated in	Monthly
	inlets and around stormwater pipes/ culverts.	





2.7.13. External Lighting Systems (SA 07.13)

Maintenance shall include all repairs, replacing of components or materials, routine setting or any other actions necessary to ensure a perfect functional condition. The following shall be used as guidelines to ensure effective maintenance:

2.7.13.1. Area Lighting (SA 07.13.01)

- Monthly Maintenance
 - Verify operation of switching element.
 - Check lamps.
 - Check mast door for weatherproof seal.
 - Check earth connection at footing, record value.
- Annual Maintenance
 - Service all luminaries.
 - Measure earth resistance of electrode.
 - Measure earth resistance of trench earth.
 - Record values in record book.

2.7.13.2. Security Lighting (SA 07.13.02)

- Monthly Maintenance
 - Verify operation of switching element.
 - Check lamps.
 - Check that all pole covers are secure.
 - Visually check distribution kiosk.
- Annual Maintenance
 - Measure phase voltages and line currents in distribution kiosk or local distribution board.
 - Do vermin protection.
 - Service all luminaires.
 - Paint timber poles with creosote.

2.7.13.3. Street Lighting (SA 07.13.03)

- Monthly Maintenance
 - Verify operation of switching element.
 - o Check lamps.
 - Check that all pole covers are secure.
 - Visually check distribution kiosk.





- Annual Maintenance
 - Measure phase voltages and line currents in distribution kiosk or local distribution board.
 - Do vermin protection.
 - o Service all luminaires.
 - Paint timber poles with creosote.

2.7.14. Low Voltage Reticulation (SA 07.14)

- Monthly Maintenance
 - \circ $\;$ Verify operation of volt and ammeters.
 - Check that access covers are secure.
 - Visually check distribution board.
 - Check all connections.
 - Check operation of switching timers.
 - Inspect and secure access doors and covers.
 - Inspect distribution kiosks.
 - Inspect overhead conductors, insulators and poles.
 - Monthly electricity meter readings.

• Annual Maintenance

- Service all low voltage boards.
- Measure phase voltages and line currents in low voltage distribution board.
- o Record values in record book and Maintenance Control Plan
- Service all distribution and metering kiosks.
- Service overhead distribution system.

2.7.15. Standby Power Systems (SA 07.15)

- Weekly Maintenance
 - Simulate a power failure EVERY FRIDAY at 11:00 to ensure generator is fully operational. Test run shall be undertaken, if possible, on load, and running hours, diesel levels, volt, ampere and frequency readings recorded.
- Monthly Maintenance
 - The following activities shall be executed during the monthly generator inspections:
 - Check oil level and top up as required.
 - Check oil viscosity for dilution by water or fuel.
 - Check starter battery terminals and apply contact grease.





- Check battery cables for damage and secure termination.
- Check battery electrolyte.
- Check battery voltage and record.
- Check battery voltage drop during engine cranking and record.
- Check battery charger operation after cranking test.
- Check starter motor for abnormal noise.
- Check diesel engine while running for noise, vibration or loose components.
- Check all flexible hoses for leaks, corrosion and ageing.
- Check all engine V-belts.
- Monitor engine I alternator coupling for noise.
- Verify that the alarm functions are operational by simulation:
 - Low oil pressure.
 - High engine temperature.
 - Low engine coolant level.
 - Abnormal speed.
 - Synchronizing failure (if applicable).
 - Cooling water pump failure.
 - Cooling tower fan failure (if applicable).
 - Low battery voltage.
 - Fuel! pump failure.

- Low fuel bulk tank (if applicable).
- Test that following alarms trigger correctly by creating the alarm condition:
 - Low Unit not in auto turn selector switch to manual or test
 - Battery charger failure switch off AC supply to battery charger
 - Auxiliary supply failure switch off auxiliary power supply
- Alternator shall be checked for accumulation of dust on the regular and for any loose components.
- Test run shall be undertaken, if possible, on load, and volt, ampere and frequency readings recorded.
- \circ $\;$ Alternator shall be cleaned and switched back into 'auto' mode $\;$
- o Complete standby Generator monthly log sheets
- Record running hours, diesel consumption etc. in the following prescribed format (example):





	Previous Measureme nt	This Measurement	Consumption	Average Per Day
Date:	01-Apr-2021	01-May-2021	Total (litres)	32days (Itrs/day)
Diesel Tank Meter Reading (ltrs)	26542.2	30546.2	4004.0	125.1
Reading Hours:			(Hours)	(hrs/day)
Generator 1 (hrs)	1245.6	1604.2	358.6	11.2
Generator 2 (hrs)	2535.6	2927.6	392.0	12.3
Total Generator hour	s (hrs)		750.6	
Average Diesel consumption			5.3 ltrs/hr	

- Annual Maintenance
 - o Drain an oil sample and submit for analysis to establish need for an oil change.
 - Fix test report in Record book.
 - Record output parameters while on load.
 - o Record running hours.
 - o Replace oil and fuel filters if not replaced during 1year as part of 200hrs service).
 - The cooling system shall be drained, flushed and refilled with water and prescribed water conditioner.

2.7.16. Heating, Ventilation and Air-Conditioning Systems (SA 07.16)

No	Preventative Maintenance Item Description	Maintenance Frequency
1	Clean filters, replace if required	Monthly
2	Inspect air intake and discharge for blockages	Monthly
3	Check all refrigerant, drainage pipes for damage and leaks	Monthly
4	Check sight glass, clear or flash gas	Monthly
5	Carry out visual inspection of condenser coil for blockages and	Monthly
	correct operation of fans	
6	Carry out visual inspection of evaporator coil for blockages and	Monthly
	correct operation of supply fans	
7	Check enclosure damages	Monthly
8	Check electric motor running temperature	Monthly
9	Check electric confections fer tightens	Monthly
10	Test thermostat and control operation	Monthly
11	Clean condensate tray and test drainage for proper operation	Monthly
12	Check cooling and heating cycle	Monthly
13	Clean filters, replace if required	Six-Monthly
14	Inspect air intake and discharge for blockages	Six-Monthly
15	Check all refrigerant, drainage pipes for damages and leaks	Six-Monthly
16	Check sight-glass: clear or flash gas	Six-Monthly





No	Preventative Maintenance Item Description	Maintenance Frequency
17	Carry out visual inspection of evaporator coil for blockages and	Six-Monthly
	correct operation of fans	
18	Carry out visual inspection of evaporator coil for blockages and	Six-Monthly
	correct operation of supply fans	
19	Check enclosure for damages	Six-Monthly
20	Check electric motor running temperature	Six-Monthly
21	Check electric connections for tightness	Six-Monthly
22	Test thermostat and control operator,	Six-Monthly
23	Clean condensate tray and test drainage for proper operation	Six-Monthly
24	Check filter/dryer	Six-Monthly
25	Check superheat and functioning of expansion valve	Six-Monthly
26	Check operation of HP and LP	Six-Monthly
27	Check operation of controllers	Six-Monthly
28	De-rust, neutralize and touch up paint work	Six-Monthly
29	Check cooling and heating cycle	Six-Monthly
30	Clean evaporator and condenser oil chemically	Six-Monthly
31	Clean all filter frames and seals	Six-Monthly
32	Check fan motor and compressor current	Six-Monthly
33	Check and test overload settings	Six-Monthly
34	Lubricate all bearings	Six-Monthly

2.7.17. Fire Fighting Equipment (SA 07.17)

The routine preventative maintenance work to be performed and executed shall include, but not be limited to the items listed below under the respective headings. These actions and findings shall be logged and reported on the relevant approved schedules and reports.

- Monthly Maintenance
 - Check charge of the extinguisher.
 - Check the condition of the discharge.
 - \circ $\;$ Check the mechanism condition of the discharge hose.
 - Update the log entry on the extinguisher.
 - Log maintenance schedule.
 - o DCP extinguishers: Check charge and replace powder at prescribed intervals.
 - o C02 extinguisher: Check charge.

2.8. Mandatory Periodic Service (SA 08)

The following mandatory periodical services shall be measured for payment separately and does not form part of the remuneration for monthly preventative maintenance items.





2.8.1. Water Meter Readings (SA 08.01)

Log all water meter readings and calculate losses on a monthly basis and report in the following format (example):

	Previous Measurement	This Measurement	Consumption	Average day (kl)	per
Date:	01-Apr-2016	03-May-2016	Total	32	days
WATER SUPPLY: (kl)			(kl)	(kl/day)	
Main Supply (input)	278540.6	279235.5	694.9	21.716	
Admin	15642.0	15690.0	48.0	1.500	
Cell Block	15674.0	15721.5	47.5	1.484	
House A1	18569.5	18610.8	41.3	1.291	
House A2	32598.0	32650.5	52.5	1.641	
House B1	13349.4	13396.0	36.6	1.144	
House B2	89562.5	89620.7	58.2	1.819	
House B3	98685.3	98721.1	35.8	1.119	
Ablution A	85684.0	85723.2	39.2	1.225	
Ablution B	53265.5	53397.6	132.1	4.128	
Building A	25689.2	25790.2	101.0	3.156	
Building B	26858.8	269521.1	93.3	2.916	
Total consumption Output)			685.5	21.422	
Loss (Input – Output)			9.4	0.294	
PORTABLE WATER SUPPLY:					
Water supply within standards	Yes/No	Yes/No			
Water test report attached	Yes/No	Yes/No			

2.8.2. Water Testing (SA 08.02)

Sample potable water supply and chemical analyses to be provided by an authorized company on a monthly basis. The water report should be provided monthly in accordance with SANS241.





2.8.3. Electricity Readings (SA 08.03)

Log all electricity meter readings on a monthly basis in the following format:

	Previous Measurement	This Measurement	Consumption	Average per day (ki)
Date:	01-Apr-2016	03-May-2016	Total	32 days
ELECTRICITY: (kWh)			(kWh)	(kWh/day)
Main Supply	124899.0	145865.9	20966.9	655.2
Admin	135899.0	1523.3	167.3	5.2
Cell Block	3596.5	3658.2	61.7	1.9
House A1	8976.0	9256.3	280.3	8.8
House A2	9686.0	9785.2	99.2	3.1
House B1	9565.0	10152.2	587.3	18.4
House B2	3594.0	4512.3	918.3	28.7
House B3	3594.0	4689.2	1095.2	34.2
Ablution A	3598.0	4154.3	556.8	17.4
Ablution B	5975.0	8785.3	2779.3	86.9
Building A	5698.0	8520.0	2822.0	88.2
Building B	5689.0	8654.2	2965.2	92.7

2.9. Frequent Servicing of Installations (SA 09)

2.9.1. Wastewater Treatment (SA 09.01)

General frequent servicing of the wastewater treatment works shall be done in accordance with this specification.

2.9.1.1. General (SA 09.01.01)

The general frequent servicing work to be performed and executed shall include but shall not be limited to the items listed in the table below:

No	Preventative Maintenance Item Description	Maintenance Frequency
1	General housekeeping: keeping site in neat and acceptable	Daily
	condition	
2	Control access to the site	Daily
3	Maintain safety conditions on site	Daily
4	Log and report spills, pollution events, power failures,	As required
	extraordinary process phenomena, etc. check auto-reset of	
	power to mechanical equipment	
5	Develop a feel for effective treatment by means of visual Daily,	Daily
	indicators of good/bad plant performance: colour, odour, foam,	
	algae growth, aerator spray patterns, effluent clarity, bubbles,	
	floating material, solids accumulation, flow patterns, turbulence,	
	touch	
6	Record operating hours and kW-hours of all mechanical	Daily
	equipment	
7	Check operation of all valves and sluices	Monthly





2.9.1.2. Specific Process and Units (SA 09.01.02)

The work to be performed shall include, but shall not be limited to the items listed in the table below:

No	Preventative Maintenance Item Description	Maintenance Frequency	
	Septic tanks and French Drains		
01	Check and log scum, water and sludge depths in tank	Six-monthly	
02	Empty tank as specified frequencies (max. 3 years) or	3-Years	
	when full		
03	Inspect French drain for accumulation of water or for	Three-monthly	
	seepage to surface. If positive, repair again		
04	Clean connecting pipes and accessories and remove tree	Three-monthly	
	and grass roots from pipes		
	Inlet Works		
01	Hand-raked screens: remove screenings rags, plastics,	2 hours during	
	etc, ensuring that only degradable material is passed on	the day	
	to the subsequent process units. (Last removal after		
	evening peak flow)		
02	Wash screening and grit and return degradable material	Hourly	
	to treatment train		
03	Dispose of screenings and grit on site burial	Daily	
	Oxidation/ maturation ponds		
01	Remove floating material from trap at an inlet pond and	Daily	
	÷		
02		Monthly	
03		Monthly	
04		Monthly	
	ponds		
	Settling tanks		
01		Daily	
02	Remove scum and clean overflow weirs	Daily	
03	Clean submerged portion of settling tank walls by	Monthly	
01		Daily	
		,	
02		Daily	
		As required	
1		1	
01	v .	Monthly	
		Monthly	
03		Daily	
		2 0119	
		D 11	
01	Check operation and correct switching op pumps	Daily	
	01 02 03 04 01 02 03 04 01 02 03 01 02 03 04 01 02 03 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03	Septic tanks and French Drains 01 Check and log scum, water and sludge depths in tank 02 Empty tank as specified frequencies (max. 3 years) or when full 03 Inspect French drain for accumulation of water or for seepage to surface. If positive, repair again 04 Clean connecting pipes and accessories and remove tree and grass roots from pipes 1 Inlet Works 01 Hand-raked screens: remove screenings rags, plastics, etc, ensuring that only degradable material is passed on to the subsequent process units. (Last removal after evening peak flow) 02 Wash screening and grit and return degradable material to treatment train 03 Dispose of screenings and grit on site burial 04 Check leak detection facilities (if provided) for signs of leakages 04 Remove tree and grass roots from verges of ponds 03 Check leak detection facilities (if provided) for signs of leakages 04 Ensure that surface growths are not accumulated in ponds 03 Check leak detection of settling tank walls by pushing settled sludge on inclined surfaces down to the apex of the cone 03 Clean submerged portion of settling tank walls by pushing settled sludge on inclined surfaces down to the apex of the cone 04 Ensure that surface growths and endepties to suit clima	





No		Preventative Maintenance Item Description	Maintenance Frequency	
		Bio Filters		
	01	Check operation of dosing siphons and snifter pipes	Daily	
	02	Check operation of flow distribution pipes	Daily	
	03	Flush flow distribution pipes	Weekly	
	04	Check spread of flow and clean distribution nozzles/holes	Weekly	
	05	Evaluate, by means of measurement and calculation,	Six-monthly	
		flushing rates, frequency, and duration		
	06	Inspect health of biological growth on filter media	Weekly	
	07	Check occurrence of blockages, ponding and nuisance conditions on filter media.	Monthly	
	08	Check operation of dosing and re-circulation pumps	Daily	
09		Chemical phosphate removal		
	01	Check operation of dosing equipment	Daily	
	02	Select chemicals and dosing rates by means of beaker	Six-monthly	
		tests. Ensure correct calculation of dosage concentration	-	
		and dosing rates		
	03	Check, by means of measurement and calculation, the	Daily	
		accuracy of dosing rates and their control proportion to flow rate		
	04	Manage provision, storage and control of chemicals	Daily	
	05	Ensure continuous dosing - avoid pulsing of dosing	Daily	
		stream		
10	I	Disinfection		
	01	Check operation of dosing facilities	Daily	
	02	Clean chlorine contact tank	Four-monthly	
	03	Ensure chlorine-dosing proportional to flow rate	Weekly	
11		Effluent disposal facilities		
	01	Oxidation ponds: manage irrigation of effluent as means of disposal	Daily	
	02	Ensure erosion free discharge to receiving water body	Monthly	

2.9.1.3. Monitoring and Reporting (SA 09.01.03)

The contractor shall keep a written record of all measurements taken and analyses done for process control and reporting to relevant authorities in terms of legal or project requirements.

A logbook shall be kept for daily recording of failures, malfunctions, spills, pollution events, power failure and detail of measures taken.





2.10. Measurement and Payment (SA 10)

2.10.1. Maintenance of a Complete Installation (SA 10.01)

The unit of measurement shall be a point. Each month shall represent a maximum of ten, points and a minimum of zero points, depending on the performance and quality of maintenance. Ten points per month, determined by using the tendered rate per point, shall include full compensation for all liabilities and obligations described or implied in the Contract document and deemed by the Contractor to be applicable to the maintenance phase of the Contract, for the complete monthly maintenance of an entire installation, and all appurtenant works deemed to form part thereof, as defined in the relevant Technical or Particular Specifications.

Tendered Contract Price shall also include full compensation for complete preventative, corrective and breakdown maintenance (as defined in this General Maintenance Specification), including full compensation for all costs related to resetting, repair, procurement, supply, delivery, replacement, protecting, furnishing, installing, testing and commissioning of all items and material required to maintain the complete installation in a functional condition.

The only items not to be included in the rate for monthly maintenance points are:

- Supply, delivery, installation and testing of special equipment/materials that will be measured elsewhere, and
- Special testing of an installation.

Different installations shall be listed in the Schedule of Quantities, in accordance with the definition of each installation.

Although ten points per month shall Include full compensation for preventative, corrective and breakdown maintenance, the Contractor might fail to achieve all points applicable in the event of unsatisfactory performance, in which case he shall still perform all maintenance requirements according to specification, but at his own cost where a reduction in points awarded is insufficient to cover his cost.

2.10.2. Additional Tests (SA 10.02)

Where ordered by the Engineer	Unit: rand (R)

Charge required by the Contractor on subitem SA.03.01 aboveUnit: %

An amount has been allowed in the Schedule of Quantities 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 under subitem SA.03.01.





The tendered percentage under subitem SA.03.02 will be paid to the Contractor on the value of each payment made to the approved testing authority.

2.10.3. Payment Reduction Due to Exceeding of Maximum Allowable Downtime During Emergency Breakdown (SA 10.03)

The unit of measurement shall be the number of days, in excess of **36 hours**, during which a component of an installation was in a dysfunctional condition that required emergency repairs.

The negative fixed rate shall include full compensation for the User Department's loss in productivity and, multiplied by the number of days measured, shall be deducted from the certified amount due to the Contractor.

2.10.4. Payment Reduction Due to Exceeding of Maximum Allowable Downtime During Ordinary Breakdown (SA 10.04)

The unit of measurement shall be the number of days, in excess of **7 days**, during which a component of an installation was in a dysfunctional condition that required ordinary repairs.

The negative fixed rate shall include full compensation for the User Department's loss in productivity and, multiplied by the number of days measured, shall be deducted from the certified amount due to the Contractor.

2.10.5. Payment Reduction Due to Exceeding of Maximum Allowable Downtime During Operational Damage Breakdown (SA 10.05)

The unit of measurement shall be the number of days, in excess of **7 days**, during which a component of an installation was in a dysfunctional condition that required ordinary repairs.

The negative fixed rate shall include full compensation for the User Department's loss in productivity and, multiplied by the number of days measured, shall be deducted from the certified amount due to the Contractor.

2.10.6. Call Out for Repair of Emergency Breakdown (SA 10.06)

The Unit of measurement shall be number. The Contractor will be remunerated for the number of callout trips to the site, in order attend to the repair of an emergency breakdown logged (Before Access to a Site) with him by the Engineer. The tendered rate shall provide full compensation for all travel, accommodation, and travel-time cost to and from the site. Remuneration for material and labor costs deemed to be included under the maintenance of a completed installation payment item in the schedule of quantities, based on the points system and measured monthly.





DEPARTMENT OF PUBLIC WORKS			13	5
MAINTENACE SCORE-CARD			(Fin	1
CONTRACT NUMBER: WCS		600		
CONTRACT:				
CONTRACTOR:				
ENGINEER:				
INSTALLATION: The following components of the installation nr. as performance indicators to	were selected by the contractor at the M b be tested according to specification:	MONTH: onthly Operatio	n Meeting	OF 35
1. ENGINEER'S SELECTION		0	1	
1.1				
1.2	1			-
1.3		-	-	
1.4			-	1
1.5			i.	-
1.6		3		+
1.7	and the second			
1.8				1
1.9			-	1
1.10				1
	TOTAL SCORE:	[1]
	D	D/M		Y
Engineer's Representative	Signature	Dat	e	





GUIDELINE FOR THE USE OF THE MAINTENANCE SCORE-CARD

The scorecard and performance indicators must be used as a maintenance management tool. The aim with each scorecard is to ensure that:

- (a) the project focuses on key aspects of maintenance per month;
- (b) the Contractor receives payment for his work, and
- (c) the Employer receives value for money and a sustained high level of service.

Performance indicators must be selected to measure the Contractor's service level of preventative and corrective maintenance that will be based on the Maintenance Control Plan and the Operating and Maintenance Manuals (containing information specified in the Contract documentation).

For each specific installation, different performance indicators must be defined each month based on the content of the maintenance in relation to the scope of maintenance work per installation and must be based on the Contractor's service level record on preventative and corrective maintenance.

Breakdowns must be dealt with if and when necessary, by logging of the breakdown and monitoring the downtime.

The Contractor and the Engineer must agree on all performance indicators at an occasion prior to the month during which the Contractor's performance (service level of maintenance) will be measured.





3. SB – Operating and Maintenance Manuals

3.1. Scope (SB 01)

The Contractor shall be responsible for the compilation of complete sets of Operating and Maintenance Manuals. A separate Operating and Maintenance Manual shall be supplied for each installation where required and as defined in the Additional Specification SA: General Maintenance.

3.2. Procedure for submission of manuals (SB 02)

3.2.1. Submission of Draft Manuals (SB 02.01)

A draft copy of each Operating and Maintenance Manual shall be submitted to the Engineer prior to safety inspection of the installation. Approval of the draft Operating and Maintenance Manuals shall be a prerequisite for commencement of the safety Inspection in terms of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).

The manuals will be reviewed and checked by the Engineer and returned to the Contractor with comments, where necessary. The Contractor shall make the necessary changes and amendments to the manuals to incorporate the Engineer's comments.

3.2.2. Development of Final Manuals (SB 02.02)

A final draft copy of each Operating and Maintenance Manual shall be submitted to the Engineer at least one week prior to commencement of Day 1 tests on commissioning. This set of manuals will not be accepted without the Contractor's verification of the information contained in the manuals and the professional language editing thereof. The Engineer shall return the manuals to the Contractor, who shall make the final corrections. The Engineer will, however, not be responsible for the quality control on manuals. Approval of final Operating and Maintenance Manuals shall be a prerequisite for issuing of a Certificate of Practical Completion for repair of the installation.

After the Engineer has approved the final Operating and Maintenance Manuals, the Contractor shall provide the Engineer with seven (7) sets of the manuals. Approval of the final Operating and Maintenance Manuals shall be a prerequisite for issuing of a Certificate of Completion.

3.3. Format of Operating and Maintenance Manuals (SB 03)

Manuals shall be bound in hardcover lever-ach files with plastic coatings. Tile files shall be clearly labelled on the front cover, as well as on the back band, with the following information:

- The title Operating and Maintenance Manuals.
- Name of the installation (as defined in Additional Specification SA: General Maintenance).





- Name of the contract and contract number.
- The Contractor's name, address and contact telephone number and fax (logo optional).
- Month and year in which the manuals are finally handed over to the Employer.
- Name of the User Department.
- Pamphlets and bound leaflets/booklets from suppliers or manufacturers shall be placed in plastic pockets.
- Drawings and diagrams larger than A3 shall be folded and placed in plastic pockets to be easily removed or stored.
- The sections of the manuals specified below shall be clearly partitioned.
- Cross-referencing between drawings/diagrams and text shall be in a clear and consequent format.
- The Operating and Maintenance Manuals shall be supplied in English.

3.4. Contents (SB 04)

3.4.1. Table of Contents (SB 04.01)

The table of contents shall appear on the second page and shall consist of the headings of the various sections in the manual and the relevant page numbers.

The table of contents shall essentially contain at least the following:

- 1. Introduction
 - 1.1 Scope of the manuai
 - 1.2 General arrangement of the manual
 - 1.3 Description of installation
 - 1.4 Specifications
- 2. List of drawings and diagrams
- 3. Parts and components
- 4. Operating procedures
- 5. Maintenance
 - 5.1 Purpose of maintenance
 - 5.2 Preventative maintenance
 - 5.3 Troubleshooting
- 6. Breakdown maintenance and repair
- 7. List of Appendices.





3.5. Measurement and Payment (SB 05)

3.5.1. Operating and Maintenance Manuals (SB 05.01)

Compile and supply a complete set of Operating and Maintenance ManualsUnit: sum

The unit of measurement shall be a sum for each complete set (seven copies) of Operating and Maintenance Manuals. Operating and Maintenance Manuals for different installations shall be measured separately in the Schedule of Quantities.

The tendered sum shall include full compensation for all technical research, gathering of information, compilation of manufacturer's instructions, compilation of drawings and diagrams, and for writing of all the descriptions, instructions, and functional procedures, as well as language editing, in order to provide a clear and correct set of Operating and Maintenance Manuals.

The tendered sum shall also include full compensation for all expenses such as paper, copy work, binding, and printing necessary for the completion of the manuals.

The tendered sum shall also include full compensation for the compilation of draft sets of operating and maintenance manuals in accordance with the specification, and for incorporation of all comments and corrective requirements.

3.5.2. Compile and Supply Complete Site Plans (SB 05.02)

The unit of measurement shall be a sum for the complete set (three A1-size copies for each plan) and electronic format of the site plan(s).

The tendered sum shall include full compensation for all expenses such as paper, copy work and printing required for the completion of the site plan. The site plan shall include and comply with the following:

3.5.2.1. Scope (SB 05.02.01)

This specification provides minimum requirements for the preparation of a Site Layout Plan and is based on the specifications of the Department of Public Works.

3.5.2.2. Specifications (SB 05.02.02)

The Specifications based on the following specifications:

- 1. Civil Engineering Manual PW 347/ 2012, Annexure A1
- 2. Specification of Materials and Methods to be Used PW371





- 3. Additional Specification SB: Operating and Maintenance Manuals. Compile and supply a complete Site Layout Plan:
 - 3.1. Detail Ground Survey

All services must be shown on a complete Site Layout Plan as required by the Engineer, including roads, fences, paving, transmission, and telephone lines, etc. For sewerage reticulation and storm water drainage systems the pipe sizes, as well as invert heights must be provided. An effort must be made to trace the routes of these services.

3.2. Survey of Buildings

The footprint of all the buildings and structures must be surveyed.

3.3. General

All survey data shall be captured in electronic format

3.5.2.3. Title Block (SB 05.02.03)

The standard drawing sheet layout and title block of the Department of Public Works must be used.

Complete all the relevant fields in the title block with reference to the name of the Port of Entry in the appropriate block. The words SITE LAYOUT PLAN should form part of the drawing title.

3.5.2.3.1. Drawing Number (SB 05.02.03.01)

Complete The drawing number should consist of a four-part identifier:

- Port of entry designator: WCS
- Group: 1
- Drawing number: numbering will start at 1
- Revision number: will start at 01

Typical example: WCS/1/1 Rev 01

3.5.2.3.2. Overlay Sheet (SB 05.02.03.02)

The overlay sheet designator identifies the type of drawing (example: overlay for water reticulation) and can be added to the drawing number:

- C: Existing structures, facilities, roads, paving, fencing, etc
- CR: Storm water drainage system
- CE: Electrical power and equipment
- CF: Firefighting equipment
- CS: Sewer network
- CT: Telephone lines
- CW: Water reticulation system




3.5.2.4. Drafting Conventions (SB 05.02.04)

The Site Layout Plan should be created following engineering conventions and standards in order to represent a clear drawing simplifying the huge amount of visual information.

3.5.2.4.1. Paper Prints (SB 05.02.04.01)

Preference is given to size A1 plans, but for reporting size A3 will be used, and the information should still be legible in this format.

3.5.2.4.2. Scale (SB 05.02.04.02)

The Site Layout Plan must be drawn according to scale and the following scales can be used:

- 1:200
- 1:500
- 1:1000

3.5.2.4.3. Plan Orientation (SB 05.02.04.03)

The Port of Entry should be rotated on the plan so that the north point arrow is pointing in the direction of either the upper left or upper right quadrants of the plan. The north point arrow to be placed in the top right-hand corner of the drawing space.

3.5.2.4.4. Contours (SB 05.02.04.04)

Contours do not form part of the Site Layout Plan.

3.5.2.4.5. Line Weights (SB 05.02.04.05)

Line weight/widths are extremely important and features such as the services should be drawn with lines that are more prominent. The following line weights (mm) can be used:

- 0.10
- 0.15
- 0.25
- 0.30
- 0.35
- 0.50
- 0.70
- 1.00





3.5.2.4.6. Line Types (SB 05.02.04.06)

The following typical standard line types that can be used:

TYPICAL LINE TYPES

LINE DESCRIPTION	LINE APPEARANCE
1. Centre Line	
2. Solid/Continuous line	
3. Short broken line	
4. Long broken line	
5. Break line	
6. Hatch lines 45°	

3.5.2.4.7. Non-Standard Line Types (SB 05.02.04.07)

The following no- standard line types that can be used:

LEGEND		O dave Cada	Line Weight (mm)
		Colour Code	
w	Water pipe line	Cyan	0.50
s	Sewer pipe line	Black	0.50
EL	Electrical overhead line	Magenta	0.50
EC	Electrical cable	Magenta	0.50
т	Telephone line	Green	0.50
G	Gas pipe line	Brown	0.50
x	Fence line	Black	0.30
	Surfaced Road	Black	0.30
	Gravel Road	Black	0.30
	Railway Line	Black	0.25





3.5.2.4.8. Submission (SB 05.02.04.08)

The Consultant must submit A1 and A3 paper prints as well as a CD(s) of the Site Layout Plan(s) to the Project Manager before the Fir.al Approval Certificate is signed.

The CD(s) must include the entire overlays/layering scheme and a compound drawing which includes all the services and information on one Site Layout Plan in DXF/DWG format.

During the Repair and Maintenance phase, the Project Manager will forward a request from time-totime to the Consultants to prepare an A3 print(s) of the Site Layout Plan, which will be submitted as part of a report to Department of Public Works.





4. SD – General Training

4.1. Scope (SD 01)

The Contractor shall be responsible for providing diverse training to various groups, including operating and maintenance personnel. The Contractor shall develop and facilitate initial training sessions for all parties, as well as training sessions at specified intervals to revive and supplement the initial training. An accredited trainer shall present all training sessions.

This specification includes all requirements for methods to be employed, the syllabus required by the User Department, the syllabus required for maintenance managers and workers and the method of measurement and payment.

4.2. Basic Method Requirement (SD 02)

The Contractor shall be responsible for conducting a complete investigation of the groups that have to be trained in order to compile a proper training plan. The investigation shall cover at least the following aspects:

- (a) Assess likelihood of conformance to task-specific requirements (status quo) of capabilities.
- (b) Identify minimum pre-qualification criteria in terms of existing knowledge and skill levels in relation to reaching target requirements.
- (c) Evaluate personnel in terms of pre-qualification criteria and tasks to be performed (skills profile).
- (d) Identify training needs.
- (e) Develop appropriate and accredited training courses and material in terms of task specific activities and identified training needs, and compile the training syllabus per installation.

The Contractor shall identify an accredited trainer to assist in the above Investigation and finalize the compilation of a training plan and syllabus. Approval of the syllabus shall be a condition for issue of a Certificate of Practical Completion for repair of an installation. Once the training plan and syllabus have been approved the Contractor shall liaise with the Engineer to establish a date and appropriate training venue that would be conductive to learning to perform training.

The training shall be revived within one month after initial training to determine its effectiveness. Further regular training sessions shall be scheduled according to the effectiveness of initial training.

The Engineer will be responsible for recording all training sessions and shall keep an attendance register. The Engineer w!! also examine the trainees officially with each training session and issue certificates of trainees acquired skills on satisfactory completion of the training.





4.3. Training of User Departments Personnel (SD 03)

The Contractor's training shall include training of the User Department's operators on biannual basis to acquaint them with operating of installations (especially electrical and mechanical systems). The training sessions shall comprise lectures and on-site (hands-on) demonstrations and shall be conducted over two-day periods. The Contractor shall liaise with the Engineer to prepare for the correct number of trainee operators.

The content of training courses for operators shall include the essential features of operating the installation, as also described in the Operating and Maintenance Manuals.

Completion of an installation shall, in terms of the Special Conditions of Contract, be subject to successful completion of training. The training course shall also be based on the Operating and Maintenance Manuals. No training shall commence without the Engineer's approval of the final draft Operating and Maintenance Manual for the particular installation.

4.4. Training of Maintenance Personnel (SD 04)

The Contractor shall either train his own employees, or local labourers, with regard to maintenance of the installation. The training of maintenance managers shall include the following aspects:

- (a) Awareness of safety, health and personal hygiene in terms of the requirements of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);
- (b) Functioning of the installation, including all its systems, services, parts of buildings and infrastructure;
- (c) All specific tasks related to routine preventative maintenance;
- (d) Interpretation and understanding of Operating and Maintenance Manuals with specific reference to requirements in cases of corrective and breakdown maintenance; and
- (e) Repair/ Reconditioning and installation/construction of equipment and materials forming part of an installation.

4.5. Measurement and Payment (SD 05)

4.5.1. Development of a syllabus for training of operators (SD 05.01)

The unit of measurement shall be the lump sum for the compilation of a training syllabus for each Installation that shall be measured separately in the Schedule of Quantities.

The tendered sum shall include full compensation for identification of pre-qualification criteria and training needs, staff assessment and evaluation prior to training, all technical research, development





and compilation of an accredited training course and course material, and all other actions necessary for commencement of official training sessions in accordance with the specification.

The tendered sum shall also include full compensation for the compilation of a draft syllabus and for incorporation of all the Engineer's comments and corrective requirements.

4.5.2. Presenting a training course for operators (SD 05.02) Unit: Number

The unit of measurement shall be the number of training courses presented based on the approved syllabus.

The tendered rate shall include full compensation for presenting a two-day training course, including lectures, demonstrations, on-site training and hands-on development and improvement of operators' skills to enable the operators to operate installations safely and efficiently.

The tendered rate shall include full compensation for the Contractor's time, appointment of the accredited trainer for the course, and for all material expenses such as paper hand-outs and slides for the whole group of trainees, the number of which shall be determined during development of the training course.

4.5.3. Presenting a training course for maintenance personnel (SD 05.03) Unit: Number

The unit of measurement shall be the number of training courses presented.

The tendered rate shall include full compensation for presenting a two-day training course, including lectures, demonstrations, on-site training and hands-on development, and improvement of maintenance personnel's skills to enable them to maintain and repair installations safely and efficiently at the satisfactory functional condition specified.

The tendered rate shall include full compensation for the Contractor's time, appointment of the accredited trainer for the course and for all material expenses such as paper hand-outs and slides for the whole group of trainees, the number of which shall be determined during development of the training course.





5. SF – General Operation

5.1. Scope (SF 01)

Operation of the specified systems, services or equipment shall all be referred to as "Operation of an Installation". Operation of an installation shall ensure effective functioning and optimum operational condition thereof. Monthly operation responsibilities for each installation including all units and components as specified shall commence with access to the installation.

Operation of an installation shall be performed in accordance with the Technical and Particular Specifications and the Operating and Maintenance Manuals.

Remuneration for operating "installations" (systems, services, and equipment) is provided for in the Bills of Quantities by means of monthly payment items, depending on the score achieved by the operators.

This Additional Specification covers operation requirements, site operation administration, communication operation performance measurement, as well as the items for measurement of the Contractor's service level and resulting payment.

5.2. Operation Requirements (SF 02)

5.2.1. Contractors Responsibilities (SF 02.01)

The Contractor shall operate the complete installation for the 36-month Contract period.

Operation implies and shall include hourly operation, daily operation (night and day), weekly as well as monthly operation on all components of the specified installations, *including* public holidays and nonworking days.

The Contractor shall operate the equipment as detailed in the Technical and Particular Specifications and the operation and maintenance manuals. Each operational function, task, test or action shall be recorded in an approved format and listed in a quarterly report by the Contractor.

As part of the repair of each installation, the Contractor shall submit a set of Operating and Maintenance Manuals where applicable. The Contractor shall ensure through training that the operating and maintenance personnel are conversant with the instructions as presented in the Operating and Maintenance Manuals. Continued training shall be included in the scope of operation work for the duration of the 36-month Contract, in accordance with Additional Specification SD: General Training.

The Operating and Maintenance Manuals, as approved by the Engineer, shall be used as a basis of hourly, daily, weekly, and monthly operations. The Contractor shall perform all operational tasks as described in the Operating and Maintenance Manuals.





5.2.2. Components included in operation scope (SD 02.02)

The main sections of a facility with their subsections are as set out in the Technical Specifications and Particular Specifications where applicable and in the Bill of Quantities and will each be deemed "an installation". Operation, as specified, will be applicable to all of the installations listed in the Bill of Quantities under the "OPERATION" section

5.2.3. Commencement of Operation Period (SF 02.03)

Operation responsibilities for an installation shall include operation of all individual units, equipment, or components thereof, and shall commence with access to the installation.

5.2.4. Site Operation Record Keeping (SF 02.04)

The Contractor shall provide and maintain hard-cover A4 Operation files for each installation that needs to be operated for the duration of the Contract. All schedules, checklists, actions, tasks, reports, hourly, daily, and monthly operational records and quarterly reports shall be filed.

Site operation records shall be submitted to the Engineer at each monthly meeting.

These files will become the property of the Department of Public Works after the completion of the 36 months contract.

5.2.5. Supply of Labour, Equipment and Material (SF 02.05)

5.2.5.1. Labour (qualified where necessary) (SF 02.02.01)

Competent personnel (qualified where necessary) that have been trained by the Contractor or external training authority, in accordance with Additional Specification SD: General Training shall execute all operational work.

5.2.5.2. Equipment (SF 02.02.02)

All tools and equipment required for operation work shall be supplied by the Contractor at his cost (except where otherwise provided).

5.2.5.3. Material (SF 02.02.03)

All material, equipment, testing equipment, protective clothing, and appurtenances necessary for the complete operation of each installation shall be supplied and installed by the Contractor at his cost. Remuneration for *maintenance* actions and material shall be measured elsewhere in this document.





The technical specification of each specific installation to be operated, shall indicate whether the Contractor should supply other consumables (such as chemicals or coal) as part of his operation requirements.

5.3. Operation Control (SF 03)

Operation quality control shall be the responsibility of the Contractor. The Contractor shall introduce his own quality assurance system to assist him in ensuring that hourly, daily and monthly operational tasks are performed as described in the operating and maintenance manuals and Technical and Particular Specifications.

5.4. Communication (SF 04)

The Contractor shall communicate in writing to the Engineer the following operational results on a monthly basis:

- (a) The quantity of ground water or surface water extracted, and the total recorded as at the last day of each month.
- (b) The quality of wastewater irrigated or discharged into the environment and the total recorded weekly (compiled monthly).
- (c) The quantity of the wastewater by grab sampling, at the point at which the wastewater enters the effluent disposal system.
- (d) Record keeping of activities as specified shall be up to date on a daily basis and available to the Engineer on inspection.
- (e) The quality of domestic wastewater discharged into the environment.
- (f) Details of failures and malfunctions and details of measures taken to avoid environmental pollution.

5.5. Performance Measurement (SF 05)

5.5.1. Performance Base Payment (SF 05.01)

Remuneration for all value-related as well as all time-related preliminary and general charges shall be deemed included in the monthly operation payments for the various installations.

5.5.1.1. Scorecard (SF 05.01.01)

The Engineer shall Inspect each installation monthly after access to the installation has been granted. The Engineer shall use a scorecard to measure the quality of operational tasks rendered by the Contractor during the preceding month, on all components that form part of the installation, in accordance with the Operation specifications. The Engineer will record his inspection directly onto the scorecard. The score-card shall serve to evaluate ten performance indicators each month in the manner set out below.





The Contractor shall always have the opportunity to score the maximum points, provided that his operation work complies with the Specifications. The Employer shall be protected against a reduced or unsatisfactory operational level and may refuse payment on such points.

5.5.1.2. Performance Indicators (SF 05.01.02)

Performance indicators shall be selected to measure the Contractor's service level of operation.

The Engineer shall select ten (10) performance indicators each month, which shall focus on the measurement of operation quality against the relevant specifications for the ensuing month. All ten (10) performance indicators are known to both the Engineer and the Contractor.

The Contractor shall aim to perform satisfactorily on all ten performance indicators. All indicators shall be selected from the scope of his normal hourly, daily and monthly operation work and shall be based on the operation control plan and operating and maintenance manuals. The work shall either be satisfactory, or unsatisfactory, and the Contractor shall score one (1) or zero (0) respectively per indicator.

Performance indicators shall be used to focus on certain key aspects of the work and shall in no way limit the Contractor's responsibility to do all the required work.

5.5.1.3. Satisfactory Performance (SF 05.01.03)

The Engineer shall inspect the site on an arbitrary day to measure the quality of operation against the ten selected performance indicators. Should the Contractor score the maximum points (10) he shall receive his full operation payment for the installation. Should the quality of operation be unsatisfactory according to the scorecard, the Contractor may fail to achieve full payment due to a reduced service level. Each monthly payment for operation shall be subject to evaluation based on the scorecard.

A copy of the score--card including a guideline for the use thereof is included in this Specification is illustrated in section SA 10.06.

5.6. Measurement and Payment (SF 06)

5.6.1. Operation of Installation (SF 06.01)

The unit of measurement shall be a point. Each month shall represent a maximum of ten points and a minimum of zero points, depending on the performance and quality of operation. Ten points per month, determined by using the tendered rate per point, shall include full compensation for all liabilities and obligations described or implied in the Contract documents and deemed by the Contractor to be





applicable to the operation of an entire installation, and all appurtenant works deemed to form part thereof, as defined in the relevant Technical or Particular Specifications.

The combined bid rate for ten points shall also include full compensation for complete hourly, daily, weekly and monthly operation.

Although ten points per month shall include full compensation for hourly, daily and monthly operation, the Contractor might fail to achieve all points applicable in the event of unsatisfactory performance, in which case he shall still perform all operation requirements according to specification, but at his own cost where a reduction in points awarded is insufficient to cover his cost.

Remuneration for all value related as well as all time related preliminary and general charges shall be deemed included in the monthly operation payments for the various installations.





PG-03.1 (EC) SITE INFORMATION – (GCC (2010) 2nd EDITION: 2010)

Project title:	Land Ports of Entry: Mahamba, Emahlathini and Bothashoop: Appointment of a service provider/s for the maintenance and repairs of building, civil, mechanical, electrical infrastructure and installations at the three (03) ports of entry for a period of 36 months		
Tender no:	H21/006 AI	Reference no:	

C4 Site Information

C4.1 LOCALITY PLAN

GEOGRAPHICAL LOCATION OF SITES

A map indicating the position of the Emahlathini, Bothashoop & Mahamba Land Ports of Entry on the Republic of South Africa/Eswatini borderline is shown below:



Figure 1.1: The Study Area

PORTS OF ENTRY – SITE SPECIFIC

MAHAMBA LAND PORT OF ENTRY is situated on the western borderline of Eswatini approximately 33 kilometers from Emkhondo. The GPS coordinates are 27°06'18.62"S, 31°04'03.28"E. Operating hours are from 07:00 to 22:00



Figure 1.2 Mahamba Aerial View

EMAHLATHINI LAND PORT OF ENTRY is situated on the western borderline of Eswatini approximately 21 kilometers from Emkhondo. The GPS coordinates are 26°51'41.69" S, 30°54'27.97"E. Operating hours are from 08:00 to 18:00



Figure 1.3 Emahlathini Aerial View

BOTHASHOOP LAND PORT OF ENTRY is situated on the western borderline of Eswatini approximately 19 kilometers from Emkhondo. The GPS coordinates are 26°58'25.38"S, 30°58'05.23"E. Operating hours are from 08:00 to 15:00.



Figure 1.4 Bothashoop Aerial View