# Variable Construction Guarantee GCC 3<sup>rd</sup> Edition (2015)

DPW-10.2(EC)



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

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

#### FOR ATTENTION

Department of Public Works and Infrastructure
Private Bag X 9027
Cape Town
8000

With reference to the contract between \_\_\_\_\_

Sir,

1.

(a)

or

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

	Ne,	
in	my/our capacity as	and hereby
to an	resenting	(hereinafter referred osal the sum of R <i>insert</i> uding VAT), for the due
. 1/	We advise that the guarantor's liability in terms of this guarantee shall be as	s follows:
(a)	From and including the date on which this guarantee is issued and up to before the date on which the last <b>certificate of completion</b> of works is be liable in terms of this guarantee to the maximum amount of 10% of the CVAT);	sued, the guarantor will
(b)	The <b>guarantor</b> 's liability shall reduce to 5 % of the <b>value of the wo</b> ld determined at the date of the last <b>certificate of completion</b> of works, subsection where the contract sum (excluding VAT);	rks (excluding VAT) as bject to such amount not
(c)	This guarantee shall expire on the date of the last final approval certific	eate.
de) the to	e guarantor hereby renounces the benefits of the exceptions non numera piti; excussionis et divisionis; and de duobus vel pluribus reis debendi which conforcement of this guarantee, with the meaning and effect whereof I/we do conversant, and undertake to pay the employer the amount guaranteed and from the employer to do so, stating that (in the employer's opinion and	could be pleaded against leclare myself/ourselves d on receipt of a written

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 2 For Internal & External Use Effective date: 10 July 2023 Version: 2023/01

the contractor has failed or neglected to comply with the terms and/or conditions of the contract;



#### Tender no: (Insert Tender Number)

- 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.
- The amount paid by the guarantor in terms of this guarantee may be retained by the employer on 5. 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 quarantor's liability ceases.
- 8. This guarantee is neither negotiable nor transferable, and
  - must be surrendered to the guarantor at the time when the employer accounts to the guarantor in terms of clause 5 above, or

20

(b) shall lapse in accordance with clause 2 (c) above.

SIGNED AT ON THIS DAY OF

9. This guarantee shall not be interpreted as extending the guarantor's liability to anything more than payment of the amount quaranteed.

45	WITNESS	
1.		
2.		
		By and on behalf of
	•	(insert the name and physical address of the guarantor)
		NAME:
		CAPACITY: (duly authorised thereto by resolution attached marked Annexure A)
		DATE:
A.	No alterations and/or additions of the	wording of this form will be accepted.
В.		or must be clearly indicated and will be regarded as the guarantor's all purposes arising from this guarantee.
C.	This GUARANTEE must be returned to	to:

## Fixed Construction Guarantee GCC 3<sup>rd</sup> Edition (2015)

DPW-10.4(EC)



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

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

#### FOR ATTENTION

**Department of Public Works and Infrastructure**Private Bag **X 9027 Cape Town**8000

With reference to the contract between

Sir,

1.

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

(hereinafter

	Ve,	
in m	ny/our capacity as	and hereby
"gu ( <i>in</i> s	resenting	(hereinafter referred to as the disposal the sum of R <i>insert amount</i> , ding VAT), for the due fulfillment of the
deb the to b	guarantor hereby renounces the benefits of the exception iti; excussionis et divisionis; and de duobus vel pluribus reis de enforcement of this guarantee, with the meaning and effect e conversant, and undertake to pay the employer the amount from the employer to do so, stating that (in the employer)	lebendi which could be pleaded against whereof I/we declare myself/ourselves bunt guaranteed on receipt of a written
(a)	the <b>contractor</b> has failed or neglected to comply with the te	erms and/or conditions of the contract;
(b)	the <b>contractor</b> 's estate is sequestrated; liquidated or surre in force within the Republic of South Africa.	endered in terms of the insolvency laws
proc	ject to the above, but without in any way detracting from the bedures provided for in the <b>contract</b> , the said demand can b r to the expiry of this guarantee.	e employer's rights to adopt any of the employer at any stage
The	amount paid by the <b>guarantor</b> in terms of this guarantee dition that upon the issue of the last <b>final approval certifica</b>	may be retained by the employer on

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 "Tendere" or "Tenderer".

Page 1 of 2
For Internal & External Use

Effective date 10 July 2023

Version: 2023/01

guarantor showing how this amount has been expended and refund any balance due to the guarantor.



DPW-10.4 (EC): Fixed Construction Guarantee - GCC GCC (2010) 2nd Edition 2010

Contract/Tender No: CPTSC02/24

- 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.
- The guarantor reserves the right to withdraw from this guarantee at any time by depositing the 6. guaranteed amount with the employer, whereupon the guarantor's liability ceases.
- 7. This guarantee is neither negotiable nor transferable, and
  - must be surrendered to the guarantor at the time when the employer accounts to the guarantor (a) in terms of clause 4 above, or
  - (b) shall lapse on the date of the last certificate of completion of works.
- This guarantee shall not be interpreted as extending the guarantor's liability to anything more than the 8. payment of the amount guaranteed.

	ON THIS	DAY OF	20
VITNESS			
By and on behalf of			
			•
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	(insert the name	and physical address	s of the guarantor
	NAME:		
	CAPACITY: (duly authorised Annexure A)	thereto by resolution	n attached marked
	DATE:		
No alterations and/or additions	of the wording of this form w	vill be accepted.	
The physical address of the gua	rantor must be clearly indica i, for all purposes arising fro		d as the guarantor's
aomicinam citanui et executano			

For Internal & External Use

## **Pricing Assumptions**

**Project Specific** 

PG-02.1(EC)



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

Project title:	Marion Island: Supply; installation & commissioning of five indoor full base load 250 KVA Generator Sets				
Tender / Quotation no:	CPTSC02/24				

#### **C2.1 Pricing Assumptions**

#### C2.1.1 GENERAL

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

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

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

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

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

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

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

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

#### C2.1.4 PROVISIONAL SUMS

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

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

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

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

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 "Tenderer".

Page 1 of 9
For Internal & External Use

Effective date 5 September 2023

Version: 2023/05



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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

#### **C2.1.6 VALUE ADDED TAX**

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

#### **C2.1.7 CORRECTION OF ENTRIES**

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

#### C2.1.8 ARITHMETICAL ERRORS

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

#### C2.1.9 CONTRACT DOCUMENTS

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

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

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

No. = Number % = Percent Sum = Lump sum **PCsum** = Prime cost sum Prov sum Provisional sum

m³.km = Cubic metre - kilometre

Km-pas = kilometre - pass m².pass square metre - pass

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

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

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

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

#### C2.1.13 PAYMENTS

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

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

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

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

For Internal & External Use

#### LOCAL MATERIAL UTILISATION REPORT (LOCAL CONTENT)

#### Submission of Local Material Utilisation Reports is not applicable to this project.

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

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

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

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

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

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

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

The Minimum Targeted Local Building Material Manufacturers CPG is not applicable to this project.

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

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

The Minimum Targeted Local Building Material Suppliers CPG is not applicable to this project.

Provision is made within the Contract Participation Goal section in the Bill of Quantities for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in PG-01.1 (EC) SCOPE OF WORKS C3.7.2. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports

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 5 of 9 Version: 2023/05

For Internal & External Use Effective date 5 September 2023



to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

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

The Minimum Targeted Local Labour Skills Development CPG is not applicable to this project.

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

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

The Minimum Targeted Enterprise Development Contract Participation Goal is not applicable to this project.

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

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

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

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

The Minimum Targeted Contract Skills Development CPG is not applicable to this project.

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

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

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

For Internal & External Use

Effective date 5 September 2023

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

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

#### Payment

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Source: cidb Standard for Developing Skills through Infrastructure Contracts as published in the Government Gazette Notice No. 48491

Government Gazette, 23 April 2023 (table 3, Page 9)

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

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

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

Contract amount

R65 700 000

Contract duration

12 Months

**CSDG** 

0.50%

Minimum CSDG target

0,50% x R65 700 000 = R328 500 (Minimum requirement)

I SKIIIS I VOES I .	umber of Cost / earners Learner / Quarter	Notional cost/learner/year	Total Notional Cost over 12 months Contract
---------------------	---	----------------------------	---



Method 2: Workplace learning opportunities, with unemployed TVET graduates	1	R23 000	R92 000	R92 000
Method 3: Candidacy for an unemployed learner with a 3-year qualification	1	R61 500	R246 000	R246 000
Total	2			R338 000

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

The National Youth Service Training and Development Programme is not applicable to this project.

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

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

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

#### C2.1.16.7 LABOUR-INTENSIVE WORKS

#### Labour Intensive Works is not applicable to this project.

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

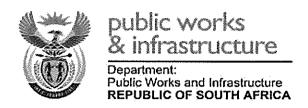
Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting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

#### C2.2 Submission of Accrual Reports

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

# Bill of Quantities, Final Summary and Specification

#### **DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE**



#### Comprising of:

Section 1 - Preliminaries and General

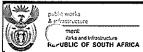
Section 2 - Generator Installation

Section 3 - LT Distribution and Service Reticulation

Section 4 - Electrical Installation

Section 5 - Prime Cost Sum

Section 6 - Summary



## MARION ISLAND GENERATOR UPGRADE AND ELECTRICAL INSTALLATION ELECTRICAL ENGINEERING SERVICES

NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
**	PART 1A: PRELIMINARY AND GENERAL				
*****	I AKI IA. I KELIMINAKI AND GENERAL	<del> </del>			
****	The agreement is to be the General Conditions of	<del>  </del>			
	Contract (GCC 2010) (Second Edition), Published by the	<del></del>	······		
	SA Institution of Civil Engineering.				
	The preliminaries are to be the Construction and				
	management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921				
	-1: 2004 Edition 1) prepared by Standards South Africa				
	and shall be deemed to be incorporated herein.	<del> </del>	M		
		<del>                                     </del>			
	Tenderers are referred to the abovementioned				***************************************
	documents for the full intent and meaning of each clause				
	thereof (hereinafter referred to by heading and clause				***************************************
	number only) for which such allowance must be made				**********
	as may be considered necessary.			,	********
					***************************************
	Where standard clauses or alternatives are not entirely				
	applicable to this contract such modifications,				
	corrections or supplements as will apply are given under				
	each relevant clause heading.				
	Where any item is not relevant to this specific contract				
	such items is marked N/A (signifying "not applicable").		***************************************		
	Adjustment of the preliminaries: each item priced, is to				
	be allocated to one or more of the three categories,				
	where "F" denotes a fixed amount (amount not to be				
	varied), "V" denotes an amount variable in proportion to				
	value and "T" denotes an amount in proportion to time.				
		ļļ			
	Time (T) related Preliminaries will only be adjusted for				
	omissions or additions, issued by the Employer, or				
	delays caused by the Employer, for which variation and extention of time has been granted.				
	extention of time has been granted.	<del>  -</del>			
	SECTION A: GENERAL CONDITIONS OF CONTRACT	-			
		<del> </del>			
A1	General (Clause 1)				
	F: V: T:	Item	1		
A2	Basis of Contract (Clause 2)				-
	F: V: T:	Item	1		
	F 701				
A3	Engineer (Clause 3)				
	[	<del>                                     </del>			
	F: V: T:	Item	1		
		1			

NO NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
A4	Contractor's General Obligation (Clause 4)				
	F: V: T:	Item	1		
	Time and Related Matters (Clause 5)				
	F: V: T:	Item	1		
	Payment and Related Matters (Clause 6)				
	F: V: T:	Item	1		
	Quality and Related Matters (Clause 7)				
	F: V: T:	Item	1		
	Risk and Related Matters (Clause 8)				
	F: V: T:	Item	1		
	Termination of Contract (Clause 9)				
	F: V: T:	Item	1		
	Claims and Disputes (Clause 10)				
	F: V: T:	Item	1		
	SECTION B: SANS 1921-1:2004 (Edition 1): CONSTRUCTION AND MANAGEMENT REQUIREMENTS FOR WORKS CONTRACTS: PART 1				
B1	Scope				
	F: V: T:	Item	1		
B2	Normative references				
	F: V: T:	Item	1		
В3	Definitions				
	F:V: T:	Item	1		
B4	Requirements for construction and management				
-	F: V: T:	Item	1		
B4.1	General				
	F: V: T:	Item	1		
B4.2	Responsibilities for design and construction				
	F: V: T:	Item	1		
	CARRIED FORWARD				

ITEM <sub>(</sub>	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
B4.3	Planning, programme and method statements				
	F: V: T:	item	1		W-MM-Min.
B4.4	Quality assurance				
	F: V: T:	Item	1		
		item			
B4.5	Settling out				
	F: V: T:	Item	1		
B4.6	Management and disposal of water				***************************************
	F: V: T:	Item	1	***************************************	
B4.7	Blasting				
	F: V: T:	Item	1		
		Iteili	'		
B4.8	Works adjacent to services and structures				
	F: V: T:	Item	1		***************************************
B4.9	Management of the works and site				
	F: V: T:	Item	1		
B4.10	Earthworks				***************************************
	F: V: T:	Item	1		
B4 11	Testing				
	F: V: T:	Itam	4		
5110		Item	1		
B4.12	Materials, samples and fabrication drawings				
	F: V: T:	Item	1		
B4.13	Equipment				
	F: V: T:	Item	1		
B4.14	Site establishment				
	F: V: T:	Item	1		
B4.15	Survey control				
	F: V: T:	Item	1		
	CARRIED FORWARD				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
B4.16	Temporary works				
	F: V: T:	Item	1		
B4.17	Existing services				
	F: V: T:	Item	1		** Administration
B4.18	Health and safety				
***************************************	F: V: T:	Item	1		
B4.19	Environmental requirements				
	F: V: T:	Item	1		
B4.20	Alterations, additions, extentions and modifications to				· · · · · · · · · · · · · · · · · · ·
	existing works				
	F: V: T:	Item	1		
B4,21	Inspection of adjoining structures, services, buildings and property.				
	F: V: T:	Item	1		
B4.22	Attendance on nominated and selected subcontractors				
	F: V: T:	Item	1		N/A
	CECTION OF COORE OF WORK IN ACCORDANCE				
	SECTION C: SCOPE OF WORK IN ACCORDANCE WITH SANS 10403				
·	(The reference to clauses refer to table B.1 of SANS 1921-1:2004)				
C1	Cerification by recognised bodies - (Clause 4.4)				,
	F: V: T:	Item	1		
	Agrèment - (Clause 4.5)			-	
	F: V: T:	Item	1		
C3	Other services and facilities - (Clause 4.8)				
	F: V: T:	Item	1		
		7.0111	•		
	CARRIED FORWARD			*	

TEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
	BROOGHTTORWARD				<u> </u>
C4	Recording of weather - (Clause 5.2)				
<u> </u>					
	F: V: T:	Item	1		
C5	Management meetings - (Clause 5.3)	<del>                                     </del>			
	F: V: T:	Item	1		
C6	Daily records - (Clause 5.6)				
	F: V: T:	Item	1 1		
		Item	<u> </u>		
C7	Permits - (Clause 5.9)				
	F: V: T:	Item	1		
				***************************************	
C8	Proof of compliance with the law - (Clause 5.10)				
	F: V: T:	Item	1		
	SECTION D: SPECIFICATION DATA ASSOCIATED				
	WITH SANS 1921-1:2004 (Table A.1)				
D1	Requirements for drawings, information and calculations				
	for which the contractor is responsible - (Clause 4.1.7)				
	F: V: T:	Item	1	····	
	The planning, programme and method statements- (Clause 4.3)				
	F: V: T:	Item	1		
D3	Samples of materials. Workmanships and finishes -				
	(Clause 4.12.1)				
	F: V: T:	ltem	1		
			-		
	Fabrication drawings that the contractor is to provide and deliver to the employer - (Clause 4.12.2)	+ +			
	F: V: T:	Item	1		
D5	Office for the foreman - (Clause 4.14.3)				
	F: V: T:	Item	1		
	CARRIED FORWARD				

				· · · · · · · · · · · · · · · · · · ·	
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD	4			
	BROUGHT FORWARD	-			
D6	Telephone - (Clause 4.14.3)				
	F: V: T:	Item	1		
D7	Office for inspector of works - (Clause 4.14.3)				
	F: V: T:	Itom	1		N/A
	1 · · · · · · · · · · · · · · · · · · ·	Item	<u>'</u>		IN/A
D8	Telephone in office for inspector of works -				
	(Clause 4.14.3)				
	F: V: T:	Item	1		N/A
D9	Provision and erection of signboards - (Clause 4.14.6)				
	F: V: T:	Item	1		N/A
	1 · · · · · · · · · · · · · · · · · · ·	Item	1		IN/A .
D10	Termination, diversion or maintenance of existing	<del></del>			
	services - (Clause 4.17.1)				
	F: V: T:	Item	1		
544	Complete which are leaves to solid (Class 4.47.9)				
D11	Services which are known to exist - (Clause 4.17.3)				
	F: V: T:	Item	1		
		100111	,		
D12	Detection apparatus - (Clause 4.17.4)				
	F: V: T:	Item	1		
D43	Additional backle and actature missages				
D13	Additional health and safety requirements - (Clause 4.18)				
-	(Olause 4.10)	+ +			
	F: V: T:	Item	1		
****			-		
	SECTION E: SPECIFIC PRELIMINARIES				
	(Section E contains specific preliminaries items which				
	apply to this contract except where "N/A" (Not applicable)	1			
	appears against the item.	-			
E1	WORKING OVER THE WEEKEND	1			
	Contractor to make allowance to work over the	† †			
	weekend in order to allow for the disconnection of				
	utilities and the connection of the generator. The				
	weekend to be used for disconnection and connection				
	and must be communicated to the Department two	<del>                                     </del>			
	weeks in advance. F: V: T:	Itom	1		
	1 · · · · · · · · · · · · · · · · · · ·	Item	ı		***************************************
	CARRIED FORWARD				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
NO				<u> </u>	
	BROUGHT FORWARD				
	DROOTH FORMALD				<u> </u>
		<del>  </del>			
E2	SITE INSTRUCTIONS	<del>-  </del>			
	Site instructions issued on site are to be recorded in				·
	triplicate in a Site Instruction book which is to be m				
	maintained on site by the Contractor				
	F: V: T:	Item	1		
E3	PLANT RECORD				
	At every site meeting, the Contractor shall provide the				
	Engineer/Principal agent with a written record, in				
	schedule form, reflecting the number, type and capacity				
	of all plant, excluding hand tools, currently used on the				
	works.				
			·····		
	F: V: T:	Item	1		
E4	SITE OFFICE				
	The Contractor is to allow for the provision and removal	<u> </u>			
	of a site office in accordance with the Principal Agent's				
***************************************	requirements. To accommodate 6 persons.				
	F: V: T:	léa ma	4		
	[F V	Item	1		
<b>E</b> 5	TRADE NAMES	<del> </del>			
	Wherever a Trade Name for any product has been				
	described in the Bill of Quantities, the Bidder's attention				
	is drawn to the fact that any other product of equal quality	<del> </del>			
**	may be used, subject to the written approval of the	1			
	Principal Agent being obtained prior to the closing date	1			
	for the submission of the Bids.				
	F: V: T:	Item	1		
E6	INACCURATE AND DEFECTIVE WORK EXECUTED				
	UNDER PREVIOUS CONTRACT				
	The contractor shall, after taking possession of the site				
	and before commencing the work, check all levels, liners,				
	profiles and the like and satisfy himself as to the				
	dimensional accuracy of all work executed under the				
	previous contract which may affect his work.		"		
	Should any inaccurate or detective work be found, the				
·	contractor shall immediately notify the principal agent				
	in writing requesting his instructions with regard thereto				
	and afford every facility to those rectifying such				
	inaccurate or defective work.	<u>  </u>			
		<del>                                     </del>			
	F: V: T:	Item	1		
	CARRIED FORWARD	ļļ			
				i	

TEM( NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
		-			
E7	VIEWING THE SITE IN SECURITY AREAS	<del>                                     </del>			
	If the site is situated in a security area and the bidder				
	must arrange with the Authorities to obtain permission	+	-	<u> </u>	
	to enter the site for Bidding purposes.				
	3, ,				
	F: V: T:	Item	1		
E8	COMMENCEMENT OF WORKS IN SECURITY AREAS				
	If the works falls within a security area, the contractor				
	must arrange with the Authorities and give the				
	necessary notices before commencement of the works.				
	Should the contractor fail to make such arrangements,				
	admission to the site may be refused and any aditional				
	costs will be for the contractor's account.	<del>                                     </del>			
	[	<del>     </del>			
	F: V: T:	Item	1		
E9	ENTRANCE PERMITS TO SECURITY AREAS				
<u> </u>	If the works falls within a security area, the contractor				
	shall obtain entrance permits for his personnel and				
	workmen entering the area and shall comply with all		·		
	regulations ans instructions which be issued from the				
	time to time regarding the protection of persons and				
	property under the control of the Authority.	+ +			***************************************
	property direct the control of the Additionty.				
	F: V: T:	Item	1		
		1 1	· · · · · · · · · · · · · · · · · · ·		
10	PROHIBITION ON TAKING PHOTOGRAPHS				
	In terms of article 119 of the Defence Act, 44 of 1957,		İ		
	it is prohibited to sketch or to take photographs of any				
	military site or installation or any building or civil works				
	thereon or to be in possession of a camera or other				
	apparatus used for taking photographs, except when			****	
	authorised thereto by or on behalf of the Minister				
			İ		
	The same prohibition is also applicable to all				
	Correctional Institutions in terms of article 44.1 of the				
	Correctional Services Act 8 of 1959,				
	F: V: T:	Item	1		
	TOU DE BAOU INDO	1			
	TOILET FACILITIES	1 1			A
	Allow for the supply and removal of portable toilet				
	facilities. The contractor is to maintain the cleanliness				
	of the facilities throughout the contract period. The	1 1			
	contractor must provide enough toilets for his/her entire	1			
	workforce.				
	F: V: T:				
	F V I;	Item	1		
-+		_			
	CARRIED FORWARD	+ +			
	VANNILY I VINTAINU				

#### SECTION 1: PRELIMINARIES AND GENERAL

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
- (	I DOUGUT FORWARD				
	BROUGHT FORWARD				
		_			
E12	MANAGEMENT OF WATER				
	Water for Construction puposes must be obtained from				
	alternative water sources (i.e. supply other than water	+			
	that is produced and distributed by a regulated water	+ +			
	service authority from a licensed water treatment works	1			
	for human consumption), e.g. dams, rivers, boreholes,	1			
	springs, rainwater harvesting, recycled sewerage water,				
	etc. The alternative water source shall not be of an				
	inferior quality/ standard than that required for	1 1			
	construction purposes. The client reserves the right	+ +	,		
	through his agents to test such supplies or request				
	certificates confirming the grade and nature of the water	+ +			
	supply. Relevant knowledge of the respective area will				
	be an advantage.				***************************************
	F: V: T:	Item	1		
		1	·····		
E13	OCCUPATIONAL HEALTH AND SAFETY ACT &	1			
	CONSTRUCTION REGULATIONS				
	It is required of the Contractor to thoroughly study the				
	Health and Safety specification that must be read				
	together with and is deemed to be incorporated under				
	this section of the Bill of Quantities. Provision for pricing				
	thereof is made under items E12,1 to E12,15 hereafter				
***************************************	and it is explicity pointed out that all requirements of the				
	aforementioned specification are deemed to be priced	"  <u> </u>			
	hereunder, as the said items represent the only method	1			
	of measurement and no additional items or extras to the				
	contract in this regard shall be entertained.				
	<u> </u>	† †	<del></del> ,		
	The contractor must take note that compliance with the				
	Occupational Health and Safety Act, Construction	† †			
	Regulations and Health and Safety specification is	1 1			
	compulsory. In the event of partial or total non-				
	compliance, the Principal Agent , notwithstanding the	1 1			
	provisions of Clause 6 of Section 1: Preliminaries			****	
	(Part A) or any other clause to the contrary, reserves	1			
	the right to delay issuing any progress payment				
	certificate until the Contractor provides satisfactory	1 1			
	proof of compliance. The Contractor shall not be entitled	1 1			
	to any compensation of whatsoever nature, including	1 1			
	interest, due to such delay of payment.				
	All references hereafter are to Regulations of the				
	Construction Regulations, 2003 issued under the				
	Occupational Health and Safety Act, 1993 (Act No 85 of				
	1993).				
	CARRIED FORWARD				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
					<u> </u>
	BROUGHT FORWARD				
·					
	The contractor shall, in submitting his bid, demonstrate				
	that he has made provision for the cost of compliance				
	with the specified health and safety requirements, the Act				
	and the Construction Regulations.				
	F:V: T:	Item	1		
<u> </u>	NOTIFICATION OF CONSTRUCTION WORK				
	(Construction Regulations 3)				
	The contractor shall, before commencing work, notify the				
	Department of Labour of the intend construction work in				
	terms o Regulation 3. The Contractor shall submit the				
	notification in writing, on the appropriate form, prior to				
	commencement of work.				
	F: V: T:	Item	1		
13,2	HEALTH AND SAFETY PLAN (Construction				
	regulations 5.4)				
	The Contractor shall provide and demonstrate to the				
	Principal Agent a suitable and sufficiently documented				
	health and safety plan based on the Act, Construction				
	Regulations and the health and safety specification,				
	which shall be applied from the date of commencement				
	of and for the duration of the construction work. The				
	Contractor shall ensure that a copy of the health and				
	safety plan is available on request to an employee,				
	inspector, sub contractor or principal agent all in terms				
	of Regulation 5.				
	F: V: T:	Item	1		
E13,3	REGISTRATION WITH THE COMPENSATION FUND				
	(Construction Regulations 5.3 f)				
	The Contractor shall provide proof of his registration and			ļ	
	good standing with the Compensation Fund or a licensed				
	compensation insurer prior to the commencement of				
	work			<u> </u>	
		1			
	F: V: T:	Item	1		
		<u> </u>			
				ļ	
			· · · · · · · · · · · · · · · · · · ·		
	CARRIED FORWARD				

ITEM NO #	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
110	<u> </u>				
	BROUGHT FORWARD				
E13.4	HEALTH AND SAFETY FILE ( Construction		·····		
21011	Regulation 5.7)	+			
	The contractor shall ensure that a health and safety file,				
	which shall include all documentation required in terms	+ +			
	of health ans safety specification, the Act and the	+		<del></del>	
	Construction Regulations, is opened and kept on site	<del>                                     </del>		<del> </del>	
	and made available to the Principal Agent or inspector				
	upon request. Upon completion of the works, the	+ +			
	contractor shall hand over a consolidated health and				
	safety file to the principal agent.	1			
	dataty indication principal agostic	1			
	F: V: T:	item	1		
	1 · · · · · · · · · · · · · · · · · · ·	10111	<u> </u>		
E13,5	SUPERVISION OF CONSTRUCTION WORK ( Safety	+ +			
210,0	officier) (Construction Regulation 6)				
	The Contractor shall appoint a full-time competent	+			
,	employee in writing as the construction supervisor, with	+ +			
-1111	the duty of supervising the construction work.	<del> </del>			
	The day of dapartioning the denotation work.				
	The Contractor shall appoint a full-time or part-time	+ +			
	construction safety officier in writing to assist in the	+ +			
	control of all safety related aspects on the site. Such	+			
	appointments are required to ensure that at all times the				
	requirements of the Act and Construction Regulations				
	are adhered to, Refer to Regulation 6.				
	are dunered to, reser to regulation o.				
	F: V: T:	Item	1		
	1 · · · · · · · · · · · · · · · · · · ·	1tom	'		
E13.6	RISK ASSESSMENT AND SAFETY POLICY				
T G I G	( Construction Regulation 7)	<u> </u>			
	Before commencing work the Contractor shall cause a	+			
	risk assessment to be performed by a competent person	1			
	appointed in writing and the risk assessment shall form	+ +			
	part of the health and safety plan. A copy of the risk	+ +			
	assessment shall be available on site at all times for		······		
***************************************	inspection.	+ +			
	The Contractor shall at all time carry out the works in a	<del>                                     </del>		<del> </del>	
	manner to avoid the risk of bodily harm to persons or		······································		
	risk of damage to any property. He shall take all	+		<del>                                     </del>	
W	precuations regarding training of employees in any	+ +			
***************************************	hazards and the related work procedures, health and			+	1
	safety induction training of employees, visitors or any	+ +		-	
	other persons entering the site and provide personal			+	
	protective equipment to all employees and visitors to	+ +		+	
	site which are necessary and adequate to eliminate any	<u> </u>			
	conditions which contribute to the risk of injury to	<del>  -</del>			
	persons or damage to property in terms of Regulation 7.			1	
	persons of damage to property in terms of Regulation 7.	1		<del> </del>	
- Marin	F: V: T:	Item	1		<u> </u>
		Rem	ı	+	
		1		+	
	CARRIED FORWARD	<del> </del>			
i	TOURNIED LOUSTAND	i I		1	1

JTEM/		7	Ť		
NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
E13.7	SIGNIFICANT HAZARD IDENTIFICATION RISK				
	ASSESSMENT PREPARED BY THE DESIGN				
	CONSULTANTS				
	The Contractor shall allow for additional finanical				
	provision, if any , to take the necessary precauations				
	regarding the significant hazards and risks identified				
	and assessed by the design consultants.				
	<b></b>				
	F: V: T:	Item	1		N/A
F40.0	ADDITIONAL FINANCAL PROVICION				
E13.8	ADDITIONAL FINANICAL PROVISION	1			
	The Contractor shall allow for additional financial		***************************************		
	provision, if any, to comply with the requirements of the	1 1			
	Occupational Health and Safety Act ( Act No 85 of 1993) and the Construction Regulations issued there under	+ +			
	which have not been specifically elsewhere.				
	which have not been specifically elsewhere.	<del></del>			
	F: V: T:	Item	1		-
		Item	E		
F13 9	FALL PROTECTION PLAN (Construction Regulation	<del>  </del>			
	8)				
······································	The Contractor shall, before commencing any	1			
	construction work submit a fall protection plan identified	+ +			
	all steps to be taken in order to ensure the continued	<del>       </del>			
	adherence to the fall protection plan and shall include	_			
	a risk assessment of all work carried out from a relevant	1 1			
	position. The fall protection plan shall form part of the				
	health and safety plan and file.				
***************************************		1			
	F: V: T:	Item	1		
		1 1	- 1		
E13,10	PHYSICAL AND PSYCHOLOGICAL FITNESS	1 1	1		
	(Construction Regulation 8.2 (b))			,	
	The Contractor and sub-contractor shall before				
	commencing any construction work submit proof of his				
	employees that shall carried out work from an elevated				
	position their physical and psychological fitness and				
	shall be recorded in the health and safety file.				
	F: V: T:	Item	1		
		<u> </u>			
	CARRIED FORWARD	1			

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
.,	BROUGHT FORWARD				
E13.11	CONSTRUCTION VEHICLES AND MOBILE PLANT				
	(Construction Regulations 21)				
	The Contractor and sub-contractors shall ensure that all				
	operated workers received training and been certified				
	competent to operate such vehicles, and are physical				
	and psychological fit to operate such construction				
	vehicles and mobile plants and shall be recorded in the				
	health and safety file.				
				***	
	F: V: T:	Item	1		
E13,12	TRAINING (Construction Regulation 8 (c))				
	The Contractor and sub-contractor shall, before				
	commencing any construction work, submit his training				
	program of all his employees. This program shall form				
	part of the health and safety plan.				
	part of the health and safety plan.				
	F: V: T:	Item	1		
		Item			
E42.42	DEMOLITION WORK (Construction Regulations 12)				
<u> </u>	DEMOLITION WORK (Construction Regulations 12)	+ +			
	The Contractor shall, before any demolition work shall	1			
	be carried out, submit all methods of demolition to be				
	used. This method shall form part of the health and	_			
·····	safety plan and file.	+			
		1			
	F: V: T:	Item	11		
	DELLOVAL AND DIODOGAL OF LODGE				
<b>E13.14</b>	REMOVAL AND DISPOSAL OF ASBESTOS				
	MATERIAL (Asbestos Regulation)				
	The principle contractor shall appoint a contractor that				
	is registered with the Department of Labour as an AIA.			····	
	The contractor must allow for:				
	NOTIFICATION OF ASBESTOS PROCESSING				
····	PERSONAL PROTECTIVE EQUIPMENT				
	PACKAGING AND TRANSPORT AND STORAGE TO				
	DISPOSAL SITE				
	DEMOLITION WORK				
	LABELLING, INFORMATION, ETC.				
	F: V: T:	Item	1		N/A
***************************************					
		+ +	-		
:		+ +	<del></del>		
		+	-		
	CARRIED FORWARD		<u>_</u> _		
	VININED I VINITUUD	1 1			I

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
	DROUGHT FORWARD	<u> </u>	ļ		
E42.4E	DICK COMPLIANCE AREAS (As Quillings)				
E13.15	RISK COMPLIANCE AREAS (As Outlined In "Volume Three": Covid-19 Guidelines for		:		
	Management of Risk on Construction Sites and				
	Covid-19 addendum (Item 1-12) attached to				
	Health and Safety specification)				
	Trouter area during opcombations	<del></del>		<u> </u>	
	· Disinfection of the workplace at regular intervals as				
	outlined within the Guidelines "Annexure A"				
	Workplace Preparation Procedure;	ļ		***************************************	
	· Ensure Staff and Security Staff have PPEs (i.e.				
	masks,gloves, sanitisers, etc.)				
	· Installed thermal scanners to check temperature of				
	all staff and visitors. Ensure training of Security Staff				
	for use of thermal scanners. Register to be				
	implemented for staff and visitors to site with				
	identification criteria "ID number, Name, Age,	1			
	Health Status and Contact details";				
	· Isolation room identified/constructed on site;				
	· Ensure sanitisers and soap are available in locker				
	rooms for staff;				
	· Ensure staff or visitors are wearing masks before				
	entering;				
	· Ensure social distance on site;				
	Notification about the restriction of the number of				
	people allowed on site at one time;				
	· Disinfection of rooms for meetings and strictly				
	keeping to social distancing and wearing masks;				
	· Plans to rotate work force on percentage allowable				
	on site to comply with regulations;				
	Permits issued by Authorising Authority for Work				
	Force and vehicles for Cross Provincial and District				
	Boarders				
	F	*1			
	F: V: T:	Item	1		
<del></del>					
	***				
	CARRIED FORWARD				
		. :			-

EM (	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
14	IMPLEMENTATION OF LABOUR-INTENSIVE				
	INFRASTRUCTURE PROJECTS UNDER THE				
	EXPANDED PUBLIC WORKS PROGRAMME (EPWP)				
	The contractor shall comply with all the requirements of				
	the "Code of Good Practice for Employment and	<u></u>			
	Conditions of Work for Special Public Works				
	Programmes" issued in terms of the "Basic Conditions				
	of Employment Act, 1997 (Act No 75 of 1997)" and the				
	related "Ministerial Determination", for the employment				
	of locally employed temporary workers on a labour				***
	intensive infrastructure project under the Expanded				
	Public Works Programme (EPWP)				
	The contractor shall maintain daily records with regard				
	to the workers employed and shall, on a monthly basis,				
	submit a report (Contract, ID Copy, Attendance register,				
	Proof of payment) to the principal agent in the				
	prescribed format. Compulsory indicators such as the				
	project budget, actual project expenditure, number of job				
	opportunities created, demographic characteristics of				
	workers employed, minimum daily wage rate, number of				
	person-days of employment created and number of				
	training person-days, shall be included in said report, all				
	as defined in the "Guidelines for the Implementation of				
	Labour-Intensive Infrastructure Projects under the				
	Expanded Public Works Programme (EPWP)"				
	Provision for pricing of compliance with the	l			
	aforementioned is made under this clause and it is				
	explicitly pointed out that all that all requirements in				
	respect of the aforementioned are deemed to be priced				
	hereunder and no additional claims in this regard shall				· · · · · · · · · · · · · · · · · · ·
	be entertained	1			
	F: V: T:	Item	1		
		1			
		1 1			
		i i			
	-	1 1			
		† †			
	- International Control of the Contr				
		·			
		1 1			
		† †			
		<del>  </del>			
		<del>  </del>			
		† †			
		<del>                                     </del>			
	CARRIED FORWARD	+			
	THE REAL PROPERTY AS A SECTION ASSESSMENT ASSESSMENT ASSESSMENT AS A SECTION ASSESSMENT AS A SECTION ASSESSMENT AS A SECTION AS A SECTION AS A SECTION ASSESSMENT AS A SECTION				5

ITEM <sub>(</sub>	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
NO 🖔	DESCRIPTION	CIVIT	QII	KAIL	MINOCIAI
	DOOLOUT FORWARD				
	BROUGHT FORWARD				
F 3 4 4	DECLADATION FOWD DOCCDAMME				
E14.1	DECLARATION - EPWP PROGRAMME				
	The contractor must adhere to all rules, regulations and	-			
	requirements regarding the EPWP programme, specifically but not limited to the following:		<u> </u>		
	1. Labour intensive construction methods (LIC)	<del> </del>		-	
	1.1 Comply to implementation of LIC BOQ items	·			
	specified elsewhere in the tender documents	<del>                                     </del>			
	2. Recruitment and placement of EPWP NYS (Not				
	Applicable)	<del> </del>			
****	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	1			
-	3.1 Recruitment and placement of minimum 5 (Five)				
	local labourers				
	3.2 Comply with applicable wage order/determination				
	or agreement, in terms of labour relations act or				
	wage act				
	4. Comply with EPWP monthly reporting	Ì			
	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	ļ			
	4.3 All employees and EPWP attendance register				
	4.4 All employees and EPWP proof of payment				
	4.5 EPWP reports populated on standard templates	ļ			
	5. Penalties for non compliance	ļ			
	Acknowledge non compliance of R3000-00 (Three				-
	thousand rand) per month per participant				
	r. V. T.	14			
	F: V: T:	Item	1		
		<u> </u>			
	***************************************				
4h.					
*****					
				-	
-		<b>†</b>			
		-			
	CARRIED FORWARD	1		]	<u> </u>
·		.1		I	

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BROUGHT FORWARD				
	BROOGIST TORWARD	<del>-   </del>			
E15	HIV/AIDS AWARENESS	+ +			
	It is required of the contractor to thoroughly study the	+			
	HIV/AIDS Specification (PW 1544) of the Department				
	that must be read together with and is deemed to be	1			
	incorporated under this Section of the Bills of Quantities,		-		
	Provision for pricing of HIV/AIDS awareness is made				
	under items E14.1 to E14.5 hereafter and it is explicitly				
	pointed out that all requirements of the aforementioned				<del>-</del>
	specification are deemed to be priced hereunder, as the		i		
	said items represent the only method of measurement		ĺ		
	and no additional items or extras to the contract in this				
	regard shall be entertained				
	The contractor must take note that compliance with the				
	HIV/AIDS Specification is compulsory. In the event of				
	partial or total non-compliance, the principal agent,				
	notwithstanding the provisions of Clause A 31.0 of				
	Section A or any other clause to the contrary, reserves				
······································	the right to delay issuing any progress payment				
	certificate until the contractor provides satisfactory				
	proof of compliance. The contractor shall not be				
	entitled to any compensation of whatsoever nature,				
	including interest, due to such delay of payment				
-4-4	AWADENEGG CHAMDION	+ +	***************************************		
<u> </u>	AWARENESS CHAMPION	+ +	-		
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all	-			
···	relevant services, all in accordance with the HIV/AIDS	1			
	Specification	-			
	Topeomeanon	<del>  </del> -			•
	F: V: T:	Item	1		
	1	ItGiii	<u>'</u>		
=15.2	AWARENESS WORKSHOPS				
	Selection and appointment of a competent Service				
	Provider approved by the principal agent, provision of				
	a Service Provider Workshop Plan and a suitable	1			
	venue, conducting of awareness workshops by means				
***************************************	of traditional and/or modern multimedia techniques,				
	including follow-up courses, making available all tuition				
	material and performing assessment procedures, all in				
	accordance with the HIV/AIDS Specification				
	F: V: T:	Item	1		
		ļļ.			
	CARRIED FORMANS	ļ			
	CARRIED FORWARD				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	  BROUGHT FORWARD				
	DROOGHT FORWARD				
E15.3	POSTERS, BOOKLETS, VIDEOS, ETC.	+			
E 13.3	Provision, displaying, maintaining and replacing when	_			
	necessary of four plastic laminated posters, booklets				
	and educational videos, etc. for the duration of the	-			
	construction period, all in accordance with the	+ +			
	HIV/AIDS Specification	<del></del>			
	THY TEO OPCOMICATION	+			
	F: V: T:	Item	1		
		Item			
F15.4	ACCESS TO CONDOMS	+ +			
L 10.4	Provision and maintenance of condom dispensers fixed				
	in position, including male and female condoms,	-			
	replenishing male and female condoms on a daily basis				
	as required for the duration of the construction period,				
	all in accordance with the HIV/AIDS Specification				
	all in accordance with the PHV/AIDS Specification	+			
	F: V: T:	Itom	1		
····		Item	1		
E15.5	MONITORING				
E 13.3	I., .	+ +			
	Monitoring HIV/AIDS awareness of workers, providing				
	the principal agent with access to information including				
	making available all reports, thoroughly completed and				
****	reflecting the correct information, for the duration of the				
	construction period and close out, all in accordance	+			
	with the HIV/AIDS Specification	<del>                                     </del>			
	F: V: T:				
	F V I	Item	1		
E16	CONSTRUCTION VEHICLES FOR DELIVERY OF				
EIO	EQUIPMENT				
	Allow for vehicles such as truck cranes, forklifts, etc for	_			
	the moving of the generator into place and delivery of				
	other necessary equipment for the project.	+ +			
	other necessary equipment for the project.	-			
	E. V. E.	14			
	F: V: T:	Item	1		
	ALTERNATE POWER SUPPLIES FOR		··········		
	CONSTRUCTION		<del>.</del>		
	Allow for the supply of portable generators and/or other				
	alternate power supplies for construction equipment in	+ +			
	the event of power failure on the premesis.				
**********	F. 7.	<del>       </del>			
	F: V: T:	Item	1		
		1 1			
	Market Control of the				
	CARRIED FORWARD TO SECTION 6 SUMMARY				



EM NO	DECEDIATION	115117	077	Darr I	A
1,1	DESCRIPTION EMERGENCY STANDBY GENERATOR ENGINE	UNIT	QTY	RATE	AMOUNT
1,1			Ī		
	Supply, Deliver, install and commissioning of prime standby			l i	
	generator complete as specified for the following sizes:				
	The Engine shall be a Discal Fuelled, old starting liquid and a				
	The Engine shall be a Diesel Fuelled, old starting liquid cooled, compression ignition, direct injection industrial type as complying				
	compression ignition, direct injection industrial type as complying				
	with SANS 8528. The cooling system shall be thermostatically controlled entirely self-contained and shall consist of a radiator, fan				
	and Circulation pump as per DPWI 722 specification.			1	
	and circulation pump as per DF W1 722 specification.				
	The following from part of genset: Water jacket heater, fuel level				
	indicator, fire fuse link shut off system,drip tray, battery charger,				
	battery charger amp meter, canopy lights, fuel filling pump, Anti				
	vibration mounts.			l	
1.1.1	250kVA, 3 Phase Indoor Open Type Prime Genenator set	ea	5		
1,2	3CR12 CHANGE OVER PANEL WITH CONTROLLER				
	The control shall contain the engine, alternator management and				
	protection system, as well as the control logistics for the remote				
	changeover switchgear. These functios shall be controlled by a micro				
1.2.1	processor-based programmable control and it shall be equipped qith				
	an optional GSM cellphone-type modem as per DPWI 722				
	specifications (modern with sim card), c/w adjustable CB, motorized				
	c/p & by pass switch				
	Supply	ea	5		
	LUBRICATION, OIL AND DIESEL				
	Supply and fill up to 100% all required lubrications to run generator inclusing diesel. Tank shall be a 1300L capacity each	ea	5		
	moleaning diesel. Tallik shall be a 1300L capacity each				
1,3	EXHAUST SILENCER - Sound Attenuated				
1.3.1	Design supply and install the stainless steel exhaust silencer for the				
1,0,1	mentioned generator, including lagging:	ea	5		
1,5	WARNING NOTICES				
1.5.1	Supply and Install warning notices on the container as specified.				
	Set of Warning Notices as per SANS and OHS specifications.	ea	5		
			-		
1,6	DOCUMENTATION				
1.6.1	Compilation of Maintenance, operational and technical				
	Manuals to the client satisfaction,				
	Supply manuals	sum	1		
4 7	CITE TESTING COLONIA C				
1.7	SITE TESTING, COMMISSIONING & DOCUMENTATION				
1.7.1	Test and Commission to deliver a fully operational				
	generating set to the client and engineers satisfaction:				
	At the suppliers premises, prior to delivery to site		_		
	On site after completion of the installation	ea	5		
1,8	1 YEAR MAINTENANCE				
1.8.1	12 Month maintenance as per the specification.				
	Quarterly (4) service of the plant as per the manufacturer's				
	requirements	ltem	20		



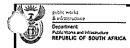
TEM NO	BER: DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	DESCRIPTION	UNIT			AWOUNI
1.0	PADLOCKS PADLOCKS		BROUG	SHT FORWARD	
1,9 1.9.1	Supply and install A82 padlocks.	ea	10		
			"		
1,10	DECOMMISSION  Decommissioning of the existing generator sets and delivering to				
1.10.1	storage/appointed location.	ea	5		
			l		
			l		
					,
				]	
				1	
			1		
			l		
			ĺ		
			ļ		
			Í		
			1	ĺ	
				l	
				l	
			1	I	
			1	I	
			1	I	
				i	
			- 1		



TENDER NUI	MBER:				
ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	LT DISTRIBUTION AND SERVICE RETICULATION				
3.1	LOW VOLTAGE SUPPLY CABLES Supply and install the following 600/1000V				
	PVC/SWA/PVC cables with copper conductor to SABS 1507 laid v ertically or horizontally in				
	conduiting or ducting or clipped direct in accordance with the specifications and drawings, including fixing. (Termination elsewhere).				
	Generator Room (Technical Centre)				
3.1.1	70mm² 4 core Gen 1 to Sync Control Panel	m	60		
3.1.2	70mm² 4 core Gen 2 to Sync Control Panel	m	60		
3.1.3	70mm² 4 core Gen 3 to Sync Control Panel	m	60		
3.1.4	95mm² 4 core Sync Control Panel to Main DB 300mm single core double-up per phase and Neutral	m	100		
3.1.5	95mm² 4 core Main Sync Control Panel to ADE Shack Control Panel	m	500		
3.1.6	ADE Shack Room 70mm² 4 core Gen 4 to Control Panel	m	60		
3.1.7	70mm² 4 core Gen 5 to Control Panel	m	60		
3.2	CABLE TERMINATIONS Termination of LV cables as specified including connection of conductors, cable lugs, captive glands, shrounds, etc. for the following cable sizes.				
3.2.1	Generator Room (Technical Centre) 70mm² 4 core Gen 1 to Sync Control Panel	No	4		
3.2.2	70mm² 4 core Gen 2 to Sync Control Panel	No	4		
3.2.3	70mm² 4 core Gen 3 to Sync Control Panel	No	4		
3.2.4	95mm² 4 core Sync Control Panel to Main DB 300mm single core double-up per phase and Neutral	No	4		
3.2.5	95mm² 4 core Main Sync Control Panel to ADE Shack Control Panel	No	4		
3.2.6	ADE Shack Room 70mm² 4 core Gen 4 to Sync Control Panel	No	4		
3.2.7	70mm² 4 core Gen 5 to Sync Control Panel	No	4		
			CA	RRIED FORWARD	



TEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
			BRC	UGHT FORWARD	
3.3	BARE COPPER EARTH WIRES				
	Supply and install 600/1000V conductors and bare stranded copper conductors on wire ways or trenching including terminations for earthing in accordance with the specifications and drawings				
	Generator Room (Technical Centre)				
3.3.1	70mm² BCEW Gen 1 to Main Sync Control Panel	m	30		
3.3.2	70mm² BCEW Gen 2 to Main Sync Control Panel	m	30		
3.3.3	70mm² BCEW Gen 3 to Main Sync Control Panel	m	30		
3.3.4	95mm² BCEW Main Sync Control Panel to Main DB	m	50		
3.3.5	95mm² BCEW Main Sync Control Panel to ADE Shack DB	m	250		
3.3.6	ADE Shack Room 70mm² BCEW Gen 4 to Sync Control Panel	m	30		
3.3.7	70mm² BCEW Gen 5 to Sync Control Panel	m	30		
3.4	BARE COPPER EARTH WIRES TERMINATIONS Termination of BCEW cables as specified including connection of conductors, cable lugs, captive glands, shrounds, etc. for the following cable sizes.				
	Generator Room (Technical Centre)				
3.4.1	70mm² BCEW Gen 1 to Main Sync Control Panel	No	2		
3.4.2	700mm² BCEW Gen 2 to Main Sync Control Panel	No	2		
3.4.3	70mm² BCEW Gen 3 to Main Sync Control Panel	No	2		
3.4.4	95mm² BCEW Main Sync Control Panel to Main DB	No	2		1
3.4.5	95mm² BCEW Main Sync Control Panel to ADE Shack DB	No	2		
3.4.6	ADE Shack Room 70mm² BCEW Gen 4 to Sync Control Panel	No	2		
3.4.7	70mm² BCEW Gen 5 to Sync Control Panel	No	2		



ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	_			UGHT FORWARD	
3.5	CABLE BUSKET				
0.0	Supply and Install Heavy duty galvanised Cable				
	ladder including all supports etc.				
	in supports of the support of the su				
3.5.1	300mm wide	sum	1		
3.6	JOINTING KIT				
	Fata-Connective and the connection of the connec				
3.6.1	Jointing of LV cables as specified with all the accessories	sum	1		
	accessories				
3.7	GENERAL				
	Test, commission, and certify complete LT				
3.7.1	reticulation and distribution in accordance with the	sum	1		
	specifications				
3.8	EARTHING AND ASSECCORIES			,	
	Supply and install 1.2 m long copper coated earth				
	spike incl earth clamp and earth coupling on Distribution Board				
3,8,1	1.2m earth spike	No	14		
-,-,		110	1-7		
3.9	DISTRIBUTION BOARDS				
	Supply of distribution boards including delivery to				
	site				
	Installation of boards including moving into				
	position, connecting up to all trunking and conduit, circuit and earthing terminations and compilation				
	of legend cards but excluding cable terminations				
	which are measured elsewhere.				
3.9.1	Main Distribution Board	ea	1		
	<u></u>				
	Physical size parameters				
	1100 mm Wide 1800 mm High				
	400 mm Deep				
	1.55 mm 200p				
	Circuit breakers to be cascaded as per drawing				
	MI_DEFF_E_SLD_004				
	Complementary District 12				
3.9.2	Synchronization Distribution and Generator Control Panel	ea	1		
	Control Faller				
	Physical size parameters				
	3200 mm Wide				
	1830 mm High				
	800 mm Deep	l			
	Cables hatters and a first till B 15 to				
	Cables bottom entry, floor standing Red finish				
	indoor DB with doors Panel to be 316 S/S	1		RRIED FORWARD	



TEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
			BRC	UGHT FORWARD	
3.9.2.1	Section No 1 - Alternator Set 1 350 Amp Motorized circuit breaker to be fed from 250kVA generator according to monitor Generator specifications				
	350 Amp circuit breakers to be connected to a BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB				
	Panel to include Hub for the SCADA connections from generator controllers to 8610 MIMIC Panel				
	Deep Sea or approved battery charger				
	Front Panel lock-out key switch for maintenance lock-out				
	All relevant controls such as Oil, Temp etc as per 8610 wiring diagram				
	Front panel plug point to work only if generator operation incl. contrl gear and protection				
	Control gear to alternator heater and Engine water heater				
	Emergency stop				
3.9.2.2	Section No 2 - Alternator Set 2 350 Amp Motorized circuit breaker to be fed from 250kVA generator according to monitor Generator specifications				
	350 Amp circuit breakers to be connected to a BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB				
	Panel to include Hub for the SCADA connections from generator controllers to 8610 MIMIC Panel				
	Deep Sea or approved battery charger				
	Front Panel lock-out key switch for maintenance lock-out				
	All relevant controls such as Oil, Temp etc as per 8610 wiring diagram				
	Front panel plug point to work only if generator operation incl. contrl gear and protection				
	Control gear to alternator heater and Engine water heater				



ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
			BRO	UGHT FORWARD	
	Emergency stop				
3.9.2.3	Section No 3 - Alternator Set 3 350 Amp Motorized circuit breaker to be fed from 250kVA generator according to monitor				
	Generator specifications				
	350 Amp circuit breakers to be connected to a BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB				
	Panel to include Hub for the SCADA connections from generator controllers to 8610 MIMIC Panel				
	Deep Sea or approved battery charger				
	Front Panel lock-out key switch for maintenance lock-out				
	All relevant controls such as Oil, Temp etc as per 8610 wiring diagram				
	Front panel plug point to work only if generator operation incl. contrl gear and protection				
	Control gear to alternator heater and Engine water heater				
	Emergency stop				
3.9.2.4	Section No 4 - ADE SHACK MAIN BUS				
	350 Amp Motorized circuit breaker to be fed from ADE Shack Sync Control Panel according to monitor Generator specifications and as per drawing MI_DAFF_E_CP_001				
	350 Amp circuit breakers to be connected to a BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB				
3.9.2.5	Section No 5 - INCOMER MAIN BREAKER				
	350 Amp Motorized circuit breaker to be fed from the MAIN BUSBAR according to monitor Generator specifications and as per drawing MI_DAFF_E_CP_001				
	350 Amp circuit breakers to be connected to a BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB				
3.9.2.6	Section No 6				
	Generator No1 controls with Deep Sea 8610 Controller or approved, Sync ready.				



	Generator No2 controls with Deep Sea 8610 Controller or approved, Sync ready.  Generator No3 controls with Deep Sea 8610		QTY BRC	UGHT FORWARD	AMOUNT R -
	Controller or approved, Sync ready.  Generator No3 controls with Deep Sea 8610				1
	Generator No3 controls with Deep Sea 8610		]		
	Controller or approved, Sync ready.				
	Multi-set remote overview display Deep Sea 8003 contoller, or approved, Sync ready.				
	Controller 1 with DSE124 CANBUS Extender Controller or approved, Sync ready.				
	Deep Sea or approved battery charger				
	Contols etc as per Section No 1				
3.9.3	ADE Shack Generator Control DB	ea	1		
	<i>Physical size parameters</i> 1800mm Wide 1830mm High 400mm Deep				
	Cables bottom entry, floor standing Red finish indoor DB with doors Panel to be 316 S/S				
3.9.3.1	Section No 1 350 Amp Motorized circuit breaker to be fed from 250kVA generator according to monitor Generator specifications				
	350 Amp circuit breakers to be connected to a BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB				
	Panel to include Hub for the SCADA connections from generator controllers to 8610 MIMIC Panel				
	Deep Sea or approved battery charger				
	Front Panel lock-out key switch for maintenance lock-out				
	All relevant controls such as Oil, Temp etc as per 8610 wiring diagram				
	Front panel plug point to work only if generator operation incl. contrl gear and protection		í		
	Control gear to alternator heater and Engine water heater				
	Emergency stop				



ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
0000			BRC	UGHT FORWARD	
3,9,3,2	Section No 2 350 Amp Motorized circuit breaker to be fed from 250kVA generator according to monitor Generator specifications 350 Amp circuit breakers to be connected to a				
	BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB  Panel to include Hub for the SCADA connections				
	from generator controllers to 8610 MIMIC Panel				
	Deep Sea or approved battery charger  Front Panel lock-out key switch for maintenance				
	lock-out  All relevant controls such as Oil, Temp etc as per				
	8610 wiring diagram	;			
	Front panel plug point to work only if generator operation incl. contrl gear and protection				
	Control gear to alternator heater and Engine water heater				
	Emergency stop				
3.9.3.3	Section No 3 - INCOMER MAIN BREAKER 350 Amp Motorized circuit breaker to be fed from the MAIN BUSBAR according to monitor Generator specifications and as per drawing MI_DAFF_E_CP_001				
	350 Amp circuit breakers to be connected to a BUSBAR system and feeding out to a 350 Amp circuit breaker to feed Main Distribution DB				
3.9.3.4	Section No 4 Generator No1 controls with Deep Sea 8610 Controller or approved, Sync ready.				
	Generator No1 controls with Deep Sea 8610 Controller or approved, Sync ready.				
	Controller 2 with DSE124 CANBUS Extender Controller or approved, Sync ready.	:			
	Deep Sea or approved battery charger				
	Contols etc as per Section No 1				
3.9.4	ADE Shack Main DB	ea	1		



ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				UGHT FORWARD	
	Physical size parameters 1100 mm Wide 1800 mm High 400 mm Deep  Cables bottom entry, Floor Standing Red Finish Indoor DB with doors 316 S/S  Circuit breakers to be cascaded as per drawing MI_DEFF_E_SLD_005  Test and Issue Certificates of Compliance in accordance with SANS 10142 and the Occupational Health and Safety Act.  Main Distribution Board Synchronization Distribution and Geneator Control Panel ADE Shack Generator Control Panel ADE Shack Main DB  General Test, commission and certify complete L.T reticulation and distribution in accordance with the specifications	sum			



DER NUME

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4	ELECTRICAL INSTALLATION				
4.1	Trunking				
T. 1	Supply and Install galvanized trunking suspended				
	on hangers 600mm below slab soffit or roof				
	structure inclusive of splices; hanging brackets;				
	fixings, steel covers, bends etc.				
444	Denna		00		
4.1.1 4.1.2	P8000 P2000	m	20 20		
4.1.2	r 2000	m	20		
4.2	Conduit and Boxes				
	Galvanized conduit inclusive fixings, fittings,				
	adaptors and locknut etc.				
4.2.1	20mm diameter	m	50		
	PVC boxes installed including Galvanised conduit				
	ends				1
4.2.2	100x50x50mm surface box	ea	4		
4.2.3	100x100x50mm surface box	ea	50		
4.3	Conductors				
4.3	PVC insulated black 'UV resistant' surfix cable with				
	aluminium sheath and copper conductors				
4.3.1	2,5mm²/2c	m	100		
	PVC insulated black 'UV resistant' surfix				
4.3.2	terminators 2,5mm²/2c terminations		10		
4.3.2	2,5mm /2c terminations	ea	10		
4.4	Socket Outlets				
	Supply and Install Crabtree Classic outlets				
	including cradies and covers including wire				
	terminations				
	4CA due record outtobad en det entlete		40		
4.4.1	16A duo normal switched socket outlets	ea	10		
	Allow for the supply, acceptance, storage,				
	fixing and connecting up of the following				
	luminaires excluding cutting of holes including				
	wire terminations for surface mounted fittings				
4.4.2	Vapour Proof Luminaire 5ft	ea	10		
4.5	Light Switches				
	Supply and Install Crabtree Classic light switches				
	including conductor terminations				
4.5.1	1 lever 1 way	ea	4		
			•		
	General				
4.6	l <del></del>				Ī
4.6	Test and commission complete general power and				
4.6	Test and commission complete general power and lighting installation	sum	1		
4.6 4.6.1		sum sum	1		



TEND	ER	NUMBER:

FRIME COST SUMS  5 PRIME COST SUMS  5.1.1 Distribution Boards Sum for the supply of distribution boards including delivery to site  5.1.1 Main Distribution Board Synchronization Distribution and Generator Control Panel 5.1.2 ADE Shack Generator Control DB 5.1.4 ADE Shack Generator Control DB 5.1.5 Luminaires Sum for the supply only to site of the following luminaires; 5.2.1 Vapour Loom  CARRIED FORWARD TO SECTION 6 SUMMARY	TENDER NUMBER:					
5.1 Distribution Boards Sum for the supply of distribution boards including delivery to site  5.1.1 Main Distribution Board Synchronization Distribution and Generator Control Panel 6.1.4 ADE Shack Main DB ea 1 4.5.1.4 ADE Shack Main DB ea 1 5.1.4 Sum for the supply only to site of the following luminaires:  5.2.1 Vapour Loom ea 10	ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Sum for the supply of distribution boards including delivery to site  5.1.1 Main Distribution Board Synchronization Distribution and Generator Control Panel 1 ADE Shack Generator Control DB ea 1 ADE Shack Main DB ea 1 St.1.4 ADE Shack Main DB ea 1 St.1.4 ADE Shack Main DB ea 1 St.1.5 ADE Shack Main DB ea	5	PRIME COST SUMS				
Sum for the supply of distribution boards including delivery to site  5.1.1 Main Distribution Board Synchronization Distribution and Generator Control Panel 1 ADE Shack Generator Control DB ea 1 ADE Shack Main DB ea 1 St.1.4 ADE Shack Main DB ea 1 St.1.4 ADE Shack Main DB ea 1 St.1.5 ADE Shack Main DB ea						
Sum for the supply of distribution boards including delivery to site  5.1.1 Main Distribution Board Synchronization Distribution and Generator Control Panel 1 ADE Shack Generator Control DB ea 1 ADE Shack Main DB ea 1 St.1.4 ADE Shack Main DB ea 1 St.1.4 ADE Shack Main DB ea 1 St.1.5 ADE Shack Main DB ea	5.1	<u>Distribution Boards</u>				
delivery to site  5.1.1 Main Distribution Board Synchronization Distribution and Generator Control Panel S.1.3 ADE Shack Generator Control DB ea 1 S.2 Luminaires Sum for the supply only to site of the following luminaires;  5.2.1 Vapour Loom ea 10						
5.1.1 Main Distribution Board Synchronization Distribution and Generator Control Panel ADE Shack Generator Control DB ea 1 ADE Shack Main DB ea 1 S.2. Luminaires Sum for the supply only to site of the following luminaires;  5.2.1 Vapour Loom ea 10		delivery to site				
Synchronization Distribution and Generator Control Panel  5.1.3 5.1.4 ADE Shack Generator Control DB ADE Shack Main DB  5.2 Luminaires Sum for the supply only to site of the following luminaires;  5.2.1 Vapour Loom  ea 10		•				
Synchronization Distribution and Generator Control Panel  5.1.3 5.1.4 ADE Shack Generator Control DB ADE Shack Main DB  5.2 Luminaires Sum for the supply only to site of the following luminaires;  5.2.1 Vapour Loom  ea 10	511	Main Distribution Board	62	1		
5.1.2 ADE Shack Generator Control DB aa 1 5.1.3 ADE Shack Main DB aa 1 5.2 Luminaires Sum for the supply only to site of the following luminaires; 5.2.1 Vapour Loom aa 10			θa	. '		
5.1.3 ADE Shack Generator Control DB 5.1.4 ADE Shack Main DB  5.2 Luminalizes Sum for the supply only to site of the following luminaizes;  5.2.1 Vapour Loom  ea 10	5.1.2		ea	1		
5.1.4 ADE Shack Main DB 5.2 Luminaires Sum for the supply only to site of the following luminaires; 5.2.1 Vapour Loom 6 a 10	513					
5.2 Luminaires Sum for the supply only to site of the following luminaires;  5.2.1 Vapour Loom  ea 10						
Sum for the supply only to site of the following luminaires;  5.2.1 Vapour Loom ea 10	0.1.4	ADE OHOCK MAIN DD	Ça	•		
Sum for the supply only to site of the following luminaires;  5.2.1 Vapour Loom ea 10	5.2	l uminaires				
luminaires; 5.2.1 Vapour Loom ea 10	J.2	Sum for the supply only to site of the following				
5.2.1 Vapour Loom ea 10		luminaires:				
		idininai oo,				
	521	Vanour Loom	63	10		
CARRIED FORWARD TO SECTION 6 SUMMARY	]	Tapadi Mooni	Cu			
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY	l					
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY	l					
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY	]					
CARRIED FORWARD TO SECTION 6 SUMMARY	]					
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CARRIED FORWARD TO SECTION 6 SUMMARY						
CANTILL FURWARD TO SECTION 0 SUMMART		CAPDIEN EOS	ר מם אואני	נט פבט	LIUM & GI INNIN VOA	
	<u> </u>	CARRIED FORWARD TO SECTION 0 SUMMART				



	SECTION 6 : FINAL SUMMARY				
SECTION		AMOUNT			
1	PRELIMINARIES AND GENERAL				
2	GENERATOR INSTALLATION				
3	LT DISTRIBUTION AND SERVICE RETICULATION				
4	ELECTRICAL INSTALATION				
5	PRIME COST SUMS				
	TOTAL TENDERED VALUE EXCLUDING. VAT.				
	15% VAT				
	TOTAL TENDERED VALUE INCLUDING VAT. CARRIED TO FORM OF OFFER AND ACCEPTANCE DPW-07(EC)				

Scope of Work & Specifications

**Project Specific** 

PG-01.1(EC)



# PG-01.1 (EC) SCOPE OF WORKS - GCC 3rd Edition (2015)

Project title:	Marion Island: Supply; installation & commissioning of five indoor full base load 250 KVA Generator Sets				
Tender no:	CPTSC02/24	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 PARTICULAR SPECIFICATIONS** Insert amendments to particular sepcifications

#### C3.3 PARTICULAR SPECIFICATIONS List particular sepcifications

#### C3.4 STANDARD SPECIFICATIONS:

The standard specifications on which this contract is based are the South African Bureau of Standards Standardized Specifications for Civil Engineering Construction SABS 1200. (Note to compiler. "SABS" has been changed to "SANS"; the SABS 1200 specifications are due to be replaced in the foreseeable future by SANS 2100)

Although not bound in nor issued with this Document, the following Sections of the Standardized Specifications of SABS 1200 shall form part of this Contract:

A - 1986 - GENERAL / D - (etc, to be provide by compiler)

# PROJECT SPECIFICATIONS:

Tender No.: PG-01.1 (EC) Scope of Works - GCC GCC 3nd Edition (2015)

### **Status**

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

Part1 A contains a general description of the works, the site and the requirements to be met.

Part B contains variations, amendments and additions to the Standardized Specifications and, if applicable, the Particular Specifications.

In the event of any discrepancy between a part or parts of the Standardised of Particular Specifications and the Project Specification, the Project Specification shall take precedence. In the event of a discrepancy between the specifications, (including the Project Specifications) and the drawings and / or the Bill of Quantities, the discrepancy shall be resolved by the Engineer before the execution of the work under the relevant item.

#### 3.5.1 **GENERAL**

#### PS-1 PROJECT DESCRIPTION:

Marion Island: Supply, Installation and Commissioning of Five (5) Indoor Emergency Prime Generator Set

#### 3.5.2 AMENDMENTS TO THE STANDARD AND PARTICULAR SPECIFICATION:

Insert amendments

# C3.5.3 PARTICULAR SPECIFICATIONS:

Insert particular specification

#### C3.6 STANDARD MINIMUM REQUIREMENTS

In terms of section 5(2) of the Construction Industry Development Board Act, 2000 (Act no. 38 of 2000) (the Act), the Construction Industry Development Board is empowered to establish and promote best practice standards, Standard Requirements and Guidelines which includes the following but not limited to:

- C3.61 cidb Best Practice: Green Building Certification, No. 34158 Government Gazette, 1 April 2011
- C3.6.2 cidb Standard for Developing Skills through Infrastructure Contracts, No. 36760 Government Gazette, 23 August 2013
- C3.6.3 cidb Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts, No 36190 Government Gazette, 25 February 2013
- C3.6.4 Preferential Procurement Policy Framework Act, 2000: Preferential Procurement Regulations, 2017, No. 40553 Government Gazette, 20 January 2017
- C3.6.5 cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.6.6 cidb Standard for Minimum Requirements for Engaging Contractors and Sub-Contractors on Construction Works Contracts, No. 41237 Government Gazette, 10 November 2017
- C3.6.7 cidb Standard for Minimum Requirements for Engaging Contractors and Sub- Contractors on Construction Works Contracts, No. 42021 Government Gazette, 9 November 2018



C3.6.8 cidb Standard for Developing Skills through Infrastructure Contracts, No 48491 Government Gazette, 23 April 2023

#### C3.7 CONTRACT PARTICIPATION GOALS AND CIDB BUILD PROGRAMME

Provision has been made within the Contract Participation Goal section in the Bill of Quantities for the respective CPGs. Prescribed Profit and Attendance percentages have been stipulated, all inclusive of associated costs to the contractor for implementation and allowance for submitting reports to the Employer's Representative on a monthly basis in terms of monthly and accumulative targets achieved with audited supporting documentation.

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

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

# C3.7.1 Minimum Targeted Local Material Manufacturer Contract Participation Goal

The Minimum Targeted Local Building Material Manufacturers CPG is not applicable to this project.

It is the requirement of the employer that the contractor enhances the use of local Small, Micro and Medium Enterprise Local Material Manufacturers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal, in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020.

A Targeted Local Material Manufacturer is a targeted enterprise that operates or maintains a factory or establishment that produces on its premises materials or goods required by the principal contractor for the performance of the contract.

Note: Adapted from SANS 10845-7:2015, definition 2.13

Preference shall be given to the Targeted Local Material Manufacturer where feasible in not applicable, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications.
- (b) The non-availability of such materials shall not adversely affect the desired progress of the specific works.
- The use of such suppliers shall not constitute grounds for any claim for increased cost in (c) respect thereof,
- (d) Materials of at least not applicable of the total value of materials purchased excluding VAT to be sourced from within not applicable km radius of the project site,
- (e) Material of at least not applicable of the total value of materials purchased excluding VAT to be sourced from within not applicable km radius of the project site.

Failure to achieve the minimum specified value as indicated in the CPG Bill of Quantity Section for Targeted Local Material Manufacturer participation will result in a thirty percent (30%) penalty of the prorate targeted value of materials not complied with unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The contractor shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

For Internal & External Use

# 3.7.2 Minimum Targeted-Local Building Material Suppliers Contract Participation Goal

# The Minimum Targeted Local Building Material Suppliers CPG is not applicable to this project.

It is the requirement of the employer that the contractor enhances the use of local Small. Micro and Medium Enterprise Local Material Suppliers (SMME's) in executing this contract, irrespective whether a minimum percentage Participation Goals is applicable or not.

The Minimum Targeted Local Manufacturers of Material Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. 41237 of 10 November 2017, as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 - Condition of Contract...

A targeted supplier is a targeted enterprise that

- owns, operates or maintains a store, warehouse or other establishment in which goods are bought, kept in stock and regularly sold to wholesalers, retailers or the public in the usual course of business: and
- engages, as its principal business and in its own name, in the purchase and sale of goods. b) Note: Adapted from SANS 10845-7:2015, definition 2.14

Preference shall be given to the local material suppliers where feasible in the not applicable, and provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 and SANS specifications.
- (b) The none availability of such materials shall not adversely affect the desired progress of the specific works,
- (c) The use of such suppliers shall not constitute grounds for any claim for increased cost in respect thereof,
- Materials of at least not applicable of the total value of materials purchased excluding VAT (d) to be sourced from within not applicable km of the project site,
- Material of at least not applicable of the total value of materials purchased excluding VAT to (e) be sourced from within not applicable km of the project site.

Failure to achieve the minimum specified value as indicated in the CPG Bill of Quantity Section for Targeted Local Material Manufacturer participation will result in a thirty percent (30%) penalty of the prorate targeted value of materials not complied with, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

# C3.7.3 Minimum Targeted Local Labour Skills Development Contract Participation Goal

# The Minimum Targeted Local Labour Skills Development CPG is not applicable to this project.

It is the requirement of the employer that the contractor enhances the use of local labour in executing this contract. This is required to be done through the use of both traditional building techniques and labour-intensive construction techniques careful and considered construction planning and implemented in the project irrespective whether a minimum percentage Participation Goal is applicable or not.

The Minimum Targeted Local Skills Development Contract Participation Goal shall be achieved in accordance with the cidb Standard for Contract Participation Goals for Targeting Enterprises and Labour through Construction Works Contracts as published in the Government Gazette Notice No. No. 48491 of 28 April 2023 and the cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 - Condition of Contract.



Targeted labour: individuals who:

- are employed by the principal contractor, sub-contractor or targeted enterprises in the performance of the contract:
- b) are defined as the target group in the targeting data; and
- permanently reside in the target area or who are recognized as being residents of the target area on the basis of identification and association with and recognition by the residents of the target area.

Adapted from SANS 10845-7:2015, definition 2.12

Targeting of labour by skills categories is only permissible within categories of semi-skilled and unskilled labour.

Contract participation goals for semi-skilled and unskilled labour shall be limited to on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract and in a manner that does not compromise worker health and safety. In the case of targeted labour, the certification of records shall be in accordance with SANS 10845-8.

Beneficiaries will be sourced from the **not applicable** for the full duration of the Construction Period. employed by either the principal contractor, sub-contractors or targeted enterprises. The total number of working days to complete the Works amount to not applicable working days. The minimum CPG participation for Targeted Local Labour Skills Development is not applicable, expressed as a percentage of the total number of working days required to complete the Works. The contractor shall attain or exceed the CPG in the performance of the contract. Failure to achieve the minimum Targeted Local Labour Skills Development CPG will result in a payment reduction of R5 000 (Excluding VAT), per working day which training has not been provided to the workforce in attendance, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

# C3.7.4 CIDB BUILD PROGRAMME: Minimum Targeted Enterprise Development Contract **Participation Goal**

The Minimum Targeted Enterprise Development CPG is not applicable to this project.

The aim of this best practice standard for indirect targeting for enterprise development in accordance with the Standard for Indirect Targeting for Enterprise Development (published in Government Gazette 36190 of 25 February 2013), as amended in cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 - Condition of Contract, is to promote enterprise development by providing for a minimum Contract Participation Goal (CPG) of not applicable of the contract amount as defined in the Standard (Tender amount, excluding allowances and VAT) on selected contracts to be undertaken by joint-venture partners or to be sub-contracted to developing contractors that are also to be beneficiaries of enterprise development support from the main contractor.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

The lead partner or main contractor shall dedicate a minimum not applicable of the tender value at the time of award, excluding allowances and VAT, to provide developmental support to targeted subcontractor or joint venture partner applicable to contracts in Grades 7 to 9, General Building and Civil Engineering contracts. Preference will be given to not applicable Enterprises.

Failing to achieve the targeted Contract Skills Development Goal will result in A) a thirty percent (30%) penalty of the value of the portion not achieved, excluding VAT, and B) the issuing of completion certificates only after the completion certificate of achieving the skills development goal, countersigned by the relevant individuals has been submitted, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The bidder shall submit monthly reports in terms of monthly achievement and accumulative targets achieved including audited supporting documentation to the Employer's Representative.

#### C3.7.4.1 Criteria

The main or lead partner of the successful bidder shall:

- (a) There must be a needs analysis for indirect targeting and development or skill standard and should be development in at least any two developmental areas namely;
  - · Administrative and cost control systems
  - construction management systems and plans
  - planning, tendering and programming
  - business; technical; procurement skills
  - · legal compliance
  - credit rating/history; financial loan capacity/history
  - · contractual knowledge
- (b) The above needs analysis shall be mutually agreed upon between contractor and targeted enterprise
- (c) The contractor shall appoint an enterprise development coordinator to:
  - perform needs analysis on the targeted enterprise to identify developmental goals
  - develop a project specific enterprise development plan to improve the targeted enterprise/s performance in the identified developmental areas
  - provide internal mentorship support to improve the targeted enterprise/s performance
  - monitor and submit to the employer's representative a monthly enterprise development report thereby reporting on the progress of the agreed development areas with the targeted enterprise/s
  - submit a project completion report to the Employer's representative for each targeted enterprise.

#### C3.7.4.2 Management

The contractor shall provide a competent person/s to provide internal mentorship to the Targeted Enterprise/s in the two agreed developmental areas.

#### C3.7.4.3 Competence Criteria for an Enterprise Development Co-ordinator

The enterprise development co-ordinator shall have the following competencies:

- Minimum experience of 5 years in the construction industry at Managerial level as a Site Agent, Contracts Manager, Site Manager, Construction Manager, Business Development Manager or Enterprise Development Manager.
- Minimum experience of 2 years in training and development in Building or Construction; and
- National Diploma or B Degree in the Built Environment or Business Management

#### C3.7.4.4 Format of Communications

The contractor shall submit to the Employer's Representative:

Project interim reports in the specified format (ED105P) detailing interim values of the CPG that was achieved together with an assessment of the enterprise development support provided should be tabled and discussed at least monthly at progress meetings between employer's representative and the contractor;

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 14 Version: 2023/05



- Project completion report in the specified format (ED101P) to the Employer's Representative for acceptance within 15 days of achieving practical completion. The report shall include the value of the CPG that was certified in accordance with the contract, cidb registration numbers of each and every targeted enterprise, and the value of the subcontracted works or of the joint venture entered into; and the participation parameter
- Enterprise development declaration (ED104P).

#### C3.7.4.5 The Key Personal

The contractor shall appoint an Enterprise Development Co-ordinator and a competent person/s to provide internal mentorship.

#### C3.7.4.6 Management Meetings

The contractor shall report to the Employer's Representative on the implementation and progress of the targeted enterprise development and CPG at monthly progress site meetings.

#### C3.7.4.7 Forms for contract administration

The contractor shall submit to the Employer's Representative the following proformas:

- Form ED 105P Project Interim Report
- Form ED 104P Enterprise Development Declaration
- Form ED 101P Project Completion Report

#### C3.7.4.8 Records

The contractor shall:

- keep records of the targeted enterprise development
- keep records of the payments made to the targeted enterprises in relation to the CPG.
- ensure all the documentation required in terms of the Standard is provided with each monthly progress payment certificate and according to a prescribed format where applicable.

#### C3.7.4.9 **Payment Certificates**

The contractor shall:

- achieve the measurable CPG and providing enterprise development support to the targeted enterprise/s as per the Standard.
- submit payment certificates to the Employer Representative at intervals determined in the Contract.

#### C3.7.4.10 Compliance requirements

# Non-compliance with the Best Practice Project Assessment Scheme

The wording of regulation 27A of the cidb regulations makes provision for the Board to enforce the cidb code of conduct in the event of clients being found to be in breach of the best practice project assessment scheme.

- Not including the requirements of the cidb standards in the conditions of tender
- Not registering the award of contract on the cidb Register of Projects (RoP)
- Not reporting practical completion on the cidb Register of Projects (RoP)

#### 3.7.5 CIDB BUILD PROGRAMME: Minimum Targeted Contract Skills Development Goal (CSDG)



# The Minimum Targeted Contract Skills Development CPG is not applicable to this project.

The contractor shall achieve or exceed in the performance of the contract the Contract Skills Development Goal (CSDG) established in the Standard for Developing Skills through Infrastructure Contracts (published in Government Gazette No 48491 of 23 April 2023 and the cidb Best Practice Project Assessment Scheme Notice No. 43726 of 18 September 2020 - Condition of Contract.

Failing to achieve the targeted Contract Skills Development Goal will result in A) a thirty percent (30%) penalty of the value of the portion not achieved, excluding VAT, and B) the issuing of completion certificates only after the completion certificate of achieving the skills development goal, countersigned by the relevant individuals has been submitted, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 3 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

#### C3.7.5.1 Methodology

The contractor shall achieve the measurable contract skills development goal by providing opportunities to learners requiring structured workplace learning using one or a combination of any of the following in relation to work directly related to the contract or order:

Method 1: structured workplace learning opportunities for learners towards the attainment of a part or a full occupational qualification;

Method 2: structured workplace learning opportunities for apprentices or other artisan learners towards the attainment of a trade qualification leading to a listed trade (GG No. 35625, 31 August 2012) subject to at least sixty percent (60%) of the artisan learners being holders of public TVET college qualifications:

Method 3: work integrated learning opportunities University of Technology for or Comprehensive University students completing their national diplomas;

Method 4: structured workplace learning opportunities for candidates towards registration in a professional category by a statutory council.

The contract skills participation goals, expressed in Rand, shall not be less than the contract amount multiplied by a percentage (%) factor given in Table 1 in the Standard for the applicable class of construction works.

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

Class of const (3) of the Con	Construction skills development goal	
Designation	Description	(CSDG) (%)
CE	Civil Engineering	0.25
CE and GB	Civil engineering and General Building	0.375
EE	Electrical Engineering works (buildings)	0.25
EP	Electrical Engineering works (infrastructure)	0.25
GB	General Building	0.5

For Internal & External Use Effective date 5 September 2023



ME	Mechanical Engineering works	0.25
SB	Specialist	0.25

The contractor shall apportion the learners in the different construction activities based on the scope of work. The cost of accommodating learners will be determined by using Table 2 in the Standard and this cost will be used to determine the value in Rand and will be added to the provision for training as provided for in the Preliminary and General section in the Bill of Quantities/Pricing schedules/Activity schedule.

Table 2: Notional Cost of Training per Headcount

Source: cidb Standard for Skills Development

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

Note: the required CPG will be recalculated based on the awarded tender amount and "Contract amount" once the beneficiaries have been appointed and actual costs are known. The notional cost of providing training opportunities will increase by CPI on an annual basis based on April CPI. Should the rates increase after bid award or during construction the rates will be adjusted as a remeasuarble item.

- (a) (a) The successful contractor may employ part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates directly or through a Skills Development Agency (SDA), (A1 - List of cidb accredited SDAs).
- (b) The successful contractor must employ at least sixty percent (60%) of the learners from an FET / TVET college should the contractor select to have part/full occupational qualification learners and trade qualification learners contributing to the CSDG.
- The successful contractor shall employ at least not applicable from eligible part/full occupational (c) qualification learners, trade qualification learners, work integrated learners or candidates in the employment of the employer.
- (d) The successful contractor shall ensure that no single method shall contribute more than seventy five percent (75%) of the CSDG for the contract.
- (e) The successful contractor may only place thirty three percent (33%) employed employees or that of his subcontractors contributing to the CSDG.
- (f) The contractor shall employ at least sixty percent (60%) of the learners from a Public FET / TVET college should the contractor select to have trade qualification learners (Method 2) contributing to the CSDG.
- (g) One of the objectives of the project is to train not applicable Occupational qualifications, trade qualification, work integrated learners - P1 and P2 learners, professional candidates.

# Management

Tender No.: PG-01.1 (EC) Scope of Works - GCC GCC 3nd Edition (2015)

- (a) The successful contractor must keep site records regarding the part/full occupational qualification learners', trade qualification learners', work integrated learners' or candidates' (delete that which is not applicable) progress, site attendance, hours worked and other relevant information as required by the Standard.
- (b) The successful contractor shall provide the required number of appropriately qualified mentors to the maximum number of part/full occupational qualification learners, trade qualification learners, work integrated learners in the proportion as specified in the Standard.
- (c) The successful contractor shall provide a supervisor to manage the training of the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates.
- The successful contractor shall submit to the employer's representative a baseline training plan (d) in the specified format (Pro-forma A2) for the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates within 30 days of start of the contract.
- (e) The successful contractor shall submit to the employer's representative project interim report in the specified format (Pro-forma A3) on the progress of each of part/full occupational qualification learner, trade qualification learner, work integrated learner, candidate every three months.
- (f) The successful contractor shall submit to the employer's representative the names and particulars in the specified format (Pro-forma A4) of the supervisor, mentors for the part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates within 30 days of start of the contract.
- (g) The successful contractor shall keep a daily record of all the part/full occupational qualification learners, trade qualification learners, work integrated learners, candidates on site and their daily activities and shall be made available to the employer's representative on request.
- (h) The successful contractor shall submit to the employer's representative the reports on the progress and status of the part/full occupational qualification learners, trade qualification learners. work integrated learners or candidates with the monthly invoice for the payment certificate.
- (i) The successful contractor shall have health and safety inductions for all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates.
- (i) The successful contractor shall conduct entry and exit medical tests of all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates.
- (k) The successful contractor shall provide personal protective equipment (PPE) to all part/full occupational qualification learners, trade qualification learners, work integrated learners or candidates at the start of their employment on site.
- Based on the agreed skills methods the contractor may employ part/full Occupational Qualification (1) Learners and /or Trade Qualification Learners and/or Work Integrated Learners and/or Candidates directly or through a Skills Development Agency (SDA), training provider or skills development facilitator (Form A1 - List of cidb accredited SDAs). The contractor shall ensure that no more than one Method shall be applied to any individual concurrently in the calculation of the CSDG for the contract.

# 3.7.6 NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME (NYS)

# The National Youth Service Training and Development Programme is not applicable to this project.

The programme shall be implemented in terms of the Implementation of the National Youth Service Programme under the Expanded Public Works (EPWP) and shall be priced in the CPG section of the Bills of Quantities. Monthly reports are to be submitted to the Employer's Representative.

Failure by the contractors to achieve the specified number to be trained in the NYS section of the CPG section within the Bills of quantities will result in a payment reduction as per bill of quantities per person. excluding VAT unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

## C3.7.7 LABOUR-INTENSIVE WORKS

# Labour Intensive Works is not applicable to this project.

Where labour intensive work is specified in the Bill of Qualities and indicated by "LI" the contractor must price for and include in rates. Contractors are expected to use their initiative to identify additional activities that can be done labour-intensively to comply with the set minimum labour intensity target, Allowance must be made for submitting monthly reports illustrating the value of the works executed under Labour Intensive Works.

Failure by the contractor to achieve the specified value of the Labour Intensive Participation Goal as stipulated within the Bills of Quantities will result in a thirty percent (30%) penalty of the value of the works not done by means of labour intensive methods, excluding VAT, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.

# Employer's objectives:

The employer's objectives are to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines.

## Labour-intensive works:

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work.

# Labour-intensive competencies of supervisory and management staff:

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/ Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (See Appendix C) at NQF outlined in Table 1

#### C3.7.7.1 GENERIC LABOUR-INTENSIVE SPECIFICATION

Contractors are referred to the Guidelines for the Implementation of Labour-intensive Infrastructure Projects under the Expanded Publics Works Programme (EPWP) for the generic labour-intensive specification applicable to the contract.

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- trenches having a depth of less than 1.5 metres
- stormwater drainage
- roads
- sidewalks and non-motorised transport infrastructure
- water and sanitation

For Internal & External Use

Effective date 5 September 2023

## Precedence

Where this specification is in conflict with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this specification shall prevail

# Hand excavateable material

Hand excavateable material is:

# a) granular materials:

- i) whose consistency when profiled may in terms of Table 3 be classified as very loose, loose, medium dense, or dense; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm:

## b) cohesive materials:

- i) whose consistency when profiled may in terms of Table 3 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

## Note

- 1) A boulder is material with a particle size greater than 200mm, a cobble and gravel is material between 60 and 200mm.
- 2) A dynamic cone penetrometer is an instrument used to measure the in-situ shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

	Table 3: Consistency of materials when profiled				
GRANULAF	GRANULAR MATERIALS		MATERIALS		
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION		
Very loose	Crumbles very easily when scraped with a geological pick.	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle.		
Loose	Small resistance to penetration by sharp end of a geological pick.	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40 mm; can be moulded by fingers with some pressure.		
Medium dense	Considerable resistance to penetration by sharp end of a geological pick.	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10 mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade.		
Dense	Very high resistance to penetration by the sharp end of a geological pick; requires many blows for excavation.	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers.		
Very dense	High resistance to repeated blows of a geological pick.	Very stiff	Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point.		

## Trench excavation

All hand excavateable material in trenches having a depth of less than 1,5 metres shall be excavated by hand.



# Compaction of backfilling to trenches (areas not subject to traffic)

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers;

- a) to ninety percent (90%) Mod AASHTO;
- b) such that in excess of 5 blows of a dynamic come penetrometer (DCP) is required to penetrate 100 mm of the backfill, provided that backfill does not comprise more than ten (10%) gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

# **Excavation**

All excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand. Any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

# Clearing and grubbing

Grass and bushes shall be cleared by hand.

# Shaping

All shaping shall be undertaken by hand.

# Loading

All loading shall be done by hand. Haulage equipment should be selected in a manner that allows loading by hand to the greatest extent possible.

# Haul

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

# Offloading

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilised for haulage.

# Spreading

All material shall be spread by hand.

Small areas may be compacted by hand provided that the specified compaction is achieved. Appropriate rollers should be used where higher (than can be achieved by hand) levels of compaction are required or for large areas.

# Grassing

All grassing shall be undertaking by sprigging, sodding, or seeding by hand.

# Stone pitching and rubble concrete masonry

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must to be collected, loaded, off loaded and placed by hand.

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

Grout shall be mixed and placed by hand.

# Manufactured Elements

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

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 13 of 14 Version: 2023/05

For Internal & External Use

Effective date 5 September 2023



# C3.8 Submission of Accrual Reports

Tender No.: PG-01.1 (EC) Scope of Works – GCC GCC 3nd Edition (2015)

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

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

Submission of Monthly Local Material Utilisation Report (Local Content) is not applicable to this project.

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

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

HIV/AIDS Specification and Schedules

# Standard PW1544 Specification and Schedules



# DEPARTMENT OF PUBLIC WORKS & INFRASTRUCTURE

# HIV/AIDS SPECIFICATION

# **PROJECT DESCRIPTION**

Marion Island: Supply; installation & commissioning of five indoor full base load 250 KVA Generator Sets

# **SECTION**

# **HIV/AIDS SPECIFICATION**

# **HIV/AIDS REQUIREMENTS**

## 1 SCOPE

This specification contains all requirements applicable to the Contractor for creating HIV/AIDS awareness amongst all of the Workers involved in this project for the duration of the construction period, through the following strategies:

- Raising awareness about HIV/AIDS through education and information on the nature of the disease, how it is transmitted, safe sexual behaviour, attitudes towards people affected and people living with HIV/AIDS, how to live a healthy lifestyle with HIV/AIDS, the importance of voluntary testing and counselling, the diagnosis and treatment of Sexually Transmitted Infections and the closest health Service Providers;
- Informing Workers of their rights with regard to HIV/AIDS in the workplace;
- Providing Workers with access to condoms and other awareness material that will enable them to make informed decisions about sexual practices.

# 2 DEFINITIONS AND ABBREVIATIONS

# 2.1 <u>Definitions</u>

Service Provider: The natural or juristic person recognized and approved by the Department of Public Works as a specialist in conducting HIV/AIDS awareness programs.

Service Provider Workshop Plan: A plan outlining the content, process and schedule of the training andeducation workshops, presented by a Service Provider which has been approved by the Representative / Agent.

Worker: Person in the employ of the Contractor or under the direction or supervision of the Contractor or any of his Sub-contractors, who is on site for a minimum period of 30 days in all.

# 2.2 Abbreviations

HIV : Human Immunodeficiency Virus.

AIDS : Acquired Immune Deficiency Syndrome.

STI : Sexually Transmitted Infection.

# 3 BASIC METHOD REQUIREMENT

3.1 The Contractor shall, through a Service Provider, conduct onsite workshops with the Workers.

The Service Provider shall develop and compile a Service Provider Workshop Plan to be presented at the workshops and which will be best suited for this project to achieve the specified objectives with regard to HIV/AIDS awareness.

The Service Provider Workshop Plan shall be based on the following information provided by the Contractor:

- · Number of Workers and Sub-contractors on site:
- When new Workers or Sub-contractors will join the construction project;
- · Duration of Workers and Sub-contractors on site;
- How the maximum number of Workers can be targeted with workshops;
- How the Contractor prefers workshops to be scheduled, e.g. three hourly sessions per Worker, or one 2.5 hour workshop per Worker;
- Profile of Workers, including educational level, age and gender (if available);
- Preferred time of day or month to conduct workshops;
- A Gantt chart reflecting the construction programme, for scheduling of workshops;
- · Suitable venues for workshops.

The Contractor shall submit the Service Provider Workshop Plan for approval within 21 days after the tender acceptance date. After approval by the Representative/Agent, the Contractor shall make available a suitable venue that will be conducive to education and training.

- 3.2 The Service Provider Workshop Plan shall address, but will not be limited to the following:
- 3.2.1 The nature of the disease;
- 3.2.2 How it is transmitted:
- 3.2.3 Safe sexual behaviour:
- 3.2.4 Post exposure services such as voluntary counselling and testing (VCT) and nutritional plans for people living with HIV/AIDS;
- 3.2.5 Attitudes towards other people with HIV/AIDS;
- 3.2.6 Rights of the Worker in the workplace;
- 3.2.7 How the Awareness Champion will be equipped prior to commencement of the HIV/AIDS awareness programme with basic HIV/AIDS information and the necessary skills to handle questions regarding the HIV/AIDS awareness programme on site sensitively and confidentially;
- 3.2.8 How the Service Provider will support the Awareness Champion;
- Location and contact numbers of the closest clinics, VCT facilities, counselling services and referral systems;
- 3.2.10 How the workshops will be presented, including frequency and duration;
- 3.2.11 How the workshops will fit in with the construction programme;
- 3.2.12 How the Service Provider will assess the knowledge and attitude levels of attendees to structure workshops accordingly:
- 3.2.13 How the video will be used:
- 3.2.14 How the Service Provider will elicit maximum participation from the Workers;
- 3.2.15 A questions and answers slot (interactive session).

The Service Provider Workshop Plan shall encompass the Specific Learning Outcomes (SLO) as stipulated.

# 4 HIV/ AIDS AWARENESS EDUCATION AND TRAINING

## 4.1 Workshops

The Contractor shall ensure that all Workers attend the workshops.

The workshops shall adequately deal with all the aspects contained in the Service Provider Workshop Plan. A video of HIV/AIDS in the construction industry, which can be obtained from all Regional Offices of the Department of Public Works, is to be screened to Workers at workshops. In order to enhance the

learning experience, groups of not exceeding 25 people shall attend the interactive sessions of the workshops.

# 4.2 Recommended practice

# 4.2.1 Workshop Schedule

Presenting information contained in the Service Provider Workshop Plan can be divided in as many workshop sessions as deemed practicable by the Contractor, provided that all Workers are exposed to all aspects of the workshops as outlined in the Service Provider Workshop Plan.

Breaking down the content of information to be presented to Workers into more than one workshop session however, has the added advantage that messages are reinforced over time while providing opportunity between workshop sessions for Workers to reflect and test information. Workers will also have an opportunity to ask questions at a following session.

# 4.2.2 Service Providers

A database of recommended Service Providers is available from all Regional Offices of the Department of Public Works.

# 4.2.3 HIV/AIDS Specific Learning Outcomes and Assessment Criteria

Workers shall be exposed to workshops for a minimum duration of two-and-a-half hours. In order to set a minimum standard requirement, the following specific learning outcomes and assessment criteriashall be met.

# 4.2.3.1 UNIT 1: The nature of HIV/AIDS

After studying and understanding this unit, the Worker will be able to differentiate between HIV and AIDS and comprehend whether or not it is curable. The Worker will also be able to explain how the HI virus operates once a person is infected and identify the symptoms associated with the progression of HIV/AIDS.

# Assessment Criteria:

- 1. Define and describe HIV and AIDS;
- 2. List and describe the progression of HIV/AIDS.

# 4.2.3.2 <u>UNIT 2: Transmission of the HI virus</u>

After studying and understanding this unit, the Worker will be able to identify bodily fluids that carry the HI virus. The Worker will be able to recognise how HIV/AIDS is transmitted and how it is not transmitted.

# Assessment Criteria:

- 1. Record in what bodily fluids the HI virus can be found:
- 2. Describe how HIV/AIDS can be transmitted;
- 3. Demonstrate the ability to distinguish between how HIV/AIDS is transmitted and misconceptions around transmittance of HIV/AIDS.

# 4.2.3.3 UNIT 3: HIV/AIDS preventative measures

After studying and understanding this unit, the Worker will comprehend how to act in a way that would minimise the risk of HIV/AIDS infection and to use measures to prevent the HI virus from entering the bloodstream.

### Assessment Criteria:

- 1. Report on how to minimise the risk of HIV/AIDS infection;
- 2. Report on precautions that can be taken to prevent HIV/AIDS infection;
- 3. Explain or demonstrate how to use a male and female condom;
- 4. List the factors that could jeopardize the safety of condoms provided against HIV/AIDS Transmission.

# 4.2.3.4 UNIT 4: Voluntary HIV/AIDS counselling and testing

After studying and understanding this unit, the Worker will be able to recognise methods of testing for HIV/AIDS infection. The Worker will be able to understand the purpose of voluntary HIV/AIDS testing and pre- and post-test counseling.

# Assessment Criteria:

- 1. Describe methods of testing for HIV/AIDS infection:
- 2. Report on why voluntary testing is important;
- 3. Report on why pre- and post-test counselling is important.

# 4.2.3.5 UNIT 5: Living with HIV/AIDS

After studying and understanding this unit, the Worker will be able to recognise the importance ofcaring for people living with HIV/AIDS and be able to manage HIV/AIDS.

## Assessment Criteria:

- 1. List and describe ways to manage HIV/AIDS;
- 2. Describe nutritional needs of people living with HIV/AIDS;
- 3. Describe ways to embrace a healthy lifestyle as a person living with HIV/AIDS:
- 4. Explain the need for counselling and support to people living with HIV/AIDS.

# 4.2.3.6 <u>UNIT 6: Treatment options for people with HIV/AIDS</u>

After studying and understanding this unit, the Worker will be familiar with the various treatments available to HIV/AIDS infected or potentially HIV/AIDS infected people.

# Assessment Criteria:

- 1. Discuss anti-retroviral therapy;
- 2. List methods of treatment to prevent HIV/AIDS transmission from mother-to-child;
- 3. Describe the need for treatment of opportunistic diseases for people living with HIV/AIDS;
- 4. Describe post exposure prophylactics.

# 4.2.3.7 <u>UNIT 7: The rights and responsibilities of Workers in the workplace with regard to HIV/AIDS</u>

After studying and understanding this unit, the Worker will be able to identify the rights and responsibilities of the Worker living with HIV/AIDS in the workplace. The Worker will recognise the importance of accepting colleagues living with HIV/AIDS and treating them in a non-discriminative way.

# Assessment Criteria:

- 1. Discuss the rights of a person living with HIV/AIDS in the workplace;
- 2. Discuss the responsibilities of a person living with HIV/AIDS in the workplace;
- Report on why acceptance and non-discrimination of colleagues living with HIV/AIDS is important.

# 4.3 Displaying of plastic laminated posters and distribution of information booklets

The Contractor shall obtain a set of four laminated posters conveying different key messages and information booklets. The contractor should include the costs of posters and information booklets in his/her tender price.

The above-mentioned posters and information booklets have been prepared to raise awareness and to share information about HIV/AIDS and STI's.

Posters or display stands shall be displayed on site as soon as possible, but not later than 14 days after the date of site handover.

Posters shall be displayed in areas highly trafficked by Workers, including toilets, rest areas, the site office and compounds.

The posters on display must always be intact, clear and readable.

Information booklets must be distributed to all Workers as soon as possible, but not later than 14 days after site handover, or as soon as the Worker joins the site.

# 5 PROVIDING WORKERS WITH ACCESS TO CONDOMS

The Contractor shall provide and maintain condom dispensers and make both male and femalecondoms, complying with the requirements of SABS ISO 4074, available at all times to all Workers at readily accessible points on site, for the duration of the contract. The Contractor may obtain condom dispensers from the Department of Health and condoms may be obtained from the Local Clinic or the Department of Health.

At least one male and one female condom dispenser and a sufficient supply of condoms, all to the approval of the Representative/Agent, shall be made available on site within 14 days of site hand over. Contractors should note that arrangements to obtain condoms from the Department of Health Clinics prior to site hand over may be necessary, to ensure that condoms are available within 14 days of site handover.

Condoms shall be made available in areas highly trafficked by Workers, including toilets, the site office and compounds.

# 6 ENSURING ACCESS TO HIV/AIDS TESTING AND COUNSELLING FACILITIES AND TREATMENT OF SEXUALLY TRANSMITTED INFECTIONS (STI)

The Contractor shall provide Workers with the names of the closest Service Providers that provide HIV/AIDS testing and counselling and Clinics providing Sexually Transmitted Infection (STI) diagnosis and treatment. Information on these Service Providers and Clinics must be displayed on a poster of a size not smaller than A1 in an area highly trafficked by Workers.

# 7 APPOINTMENT OF AN HIV/AIDS AWARENESS CHAMPION

7.1 Within 14 days of site handover the Contractor shall appoint an Awareness Champion from amongst the Workers, who speaks, reads and writes English, who speaks and understands all the local languages spoken by the Workers and who shall be on site during all stages of the construction period. The Contractor shall ensure that the Awareness Champion has been trained by the Service Provider on basic HIV/AIDS information, the support services available and the necessary skills to handle questions regarding the HIV/AIDS programme in a sensitive and confidential manner.

- 7.2 The Awareness Champion shall be responsible for:
- 7.2.1 Liaising with the Service Provider on organising awareness workshops;
- 7.2.2 Filling condom dispensers and monitoring condom distribution;
- 7.2.3 Handing out information booklets;
- 7.2.4 Placing and maintaining posters.

# 8 **MONITORING**

The Contractor shall grant to the Representative/Agent reasonable access to the construction site, in order to establish that the Contractor complies with his obligations regarding HIV/AIDS awareness under this contract.

The Contractor must report problems experienced in implementing the HIV/AIDS requirements to the Representative/Agent.

The attached SITE CHECKLIST (SCHEDULE A) shall be completed and submitted at every construction progress inspection to the Representative/Agent.

The attached SERVICE PROVIDER REPORT (SCHEDULE B) shall be completed and submitted on a monthly basis to the Department's Project Manager, through the Representative/Agent.

The attached CONTRACTOR HIV/AIDS PROGRAMME REPORT (SCHEDULE C), a close out programme report, shall be completed by the Contractor at the end of the contract.

### SCHEDULE A

## ₹

HIV/AIDS PROGRAMME: SITE CHECKLIST	
When did construction commence:	
Name of Departmental Project Manager:	

Please refer to HIV/AIDS Programme activities during the reporting period

		account och pinca mini openinaanon	2												
DATE	Ы	Ы		ᆸ			굽			配			ᆸ		
	M M O O		Ω Σ		N	۵	╚	M	_		Σ	Z		Z	Σ
Programme implemented within 14 days of site handover															-
Awareness champion on site	THE TRANSPORTER TO THE	The state of the s							ļ						
HIV/AIDS awareness service					3										
provider report															
Male condom dispenser						<u> </u>									
Sufficient male condoms available												·········			
Male condom dispenser in a highly															
trafficked area															
Female condom dispenser															
Sufficient female condoms available															
Female condom dispenser in a															
highly trafficked area															
All four types of posters displayed									<u> </u>						
Posters in a good condition															
Posters in a highly trafficked area									-						
Posters displayed on local support															
services: clinic & VCT centre															
Support service poster/s in highly								\$							
trafficked area															
Support service poster/s in a good															
Condition			_												

Please indicate the applicable number for the reporting period	rting period			
Workers on payroll (at PI)				
Sub-Contractors who will be on site		real plants	T T T T T T T T T T T T T T T T T T T	
for longer than 30 days (at PI)				
Workshop attendees	THE PROPERTY AND A SECOND PROPERTY AND A SEC	THE PROPERTY OF THE PROPERTY O		
Number of workshops held	THE STATE OF THE S	THE STATE OF THE S		
Scheduled workshops according to	The state of the s	WANT THE PROPERTY OF THE PROPE		7777
approved workshop plan				
Booklets distributed		The state of the s		
Male condoms distributed	MANAGEMENT :	Transfer and the second		
Female condoms distributed		· · · · · · · · · · · · · · · · · · ·	The state of the s	
Representative/Agent	Date			
	),,,			

Page 3 of 3

(ccyy/mm/dd)
Departmental Project Manager
Date

SCHEDULE A

Page 1 of 3

### **SCHEDULE B**

SCHEDULE B

### HIV/AIDS AWARENESS PROGRAMME: SERVICE PROVIDER REPORT

Reporting period: (ccyy/mm/dd)to (ccyy/mm/dd)
Number of workshops conducted in reporting period:
Number of scheduled workshops according to approved workshop plan:
Deviations from workshop plan:
State reasons for deviating from workshop plan:
Corrective actions:
Service Provider
Date Date

# HIV/AIDS AWARENESS PROGRAMME: WORKSHOP CONTENT ADDRESSED

Fill in the applicable information with regard to each workshop conducted	gard to each	vorks	op c	ond	rcfea		1000			3-55	10000					10.50 20.50				
DATE	M/S W/S	M	S		5	S/M			S/M		≥	W/S			S/M			S/M	S	
1 20	N O		۵	2	<u>0</u>	M M O O	Σ	≥	۵	Σ		Ω	Z	Σ	M M G G M M G G	Σ	M	_		M
Content of workshop:												-				1		╁	-	
(Mark the content included)																				
SLO1											H									
SLO2																				
SLO3																		<u> </u>		
SLO4											<u> </u>		•					$\vdash$		
SLO5	***************************************										<u> </u>							-		
90TS																		-		
SLO7	WWW										-									
HIV/AIDS in construction video																				
Indicate the duration of the workshop in hours																				
Total number of Workers																				
Indicate workshop venue																		_		
TET THE PROADMINISTER CONTRACTOR AND A SECOND ASSESSMENT AS A SECOND ASSESSMENT AS A SECOND ASSESSMENT AS A SECOND ASSESSMENT AS A SECOND ASSESSMENT AS A SECOND ASSESSMENT AS A SECOND ASSESSMENT AS A SECOND ASSESSMENT AS A SECOND AS A SECOND ASSESSMENT AS A SECOND AS A																				
A MILLE AND A SALE					_						_									

HIV/AIDS AWARENESS PROGRAMME: ATTENDANCE REGISTER

Fill in	Fill in your name and indicate attendance by ticking the appropriate date	e by ticking the	appropriate dat	Ð				
DATE		SIM	S/M	S/	M/S	M/S	M/S	W/S
	Transfer of the Control of the Contr	W W a a	M M O O	M M d	M M d d	M M d d	M M O O	D M M
Š	NAMES					THE PARTY OF THE P		
				1110AAAA		***************************************		
	111111111111111111111111111111111111111			TTRANSMIT				
	TOTAL MANAGEMENT AND AND AND AND AND AND AND AND AND AND			T THE PROPERTY OF THE PROPERTY				
	THE STATE OF THE S				THE PARTY OF THE P		THE PARTY OF THE P	The second secon
				7 11 11 11 11 11 11 11 11 11 11 11 11 11	77770000			
				THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	T T T T T T T T T T T T T T T T T T T	737744	To The County	
					· · · · · · · · · · · · · · · · · · ·			TRANSPORT
				T T T T T T T T T T T T T T T T T T T	777711111111111111111111111111111111111			777777
	Tompoversity is to					***************************************	-	
	annum delevation				THE STATE OF THE S		THINK WALLE	
	TO THE COLUMN TO							
	m (v) + 4 eV/s and some	A A A A A A A A A A A A A A A A A A A					THEORY	**************************************
	The minimum of the mi	THE PARTY OF THE P					MATERIA STATE OF THE STATE OF T	
	T THE THE PARTY OF THE THE THE THE THE THE THE THE THE THE						- Transmission	TTTTANAWAYA
	The state of the s						TRINAVAVA-L	
	The state of the s							
								TPAAAAAAA.
	THE PROPERTY OF THE PROPERTY O							7474444
	T T AND THE STATE OF THE STATE			***************************************				THE CHILDREN CO.
	- Information and made to	· mm/A made as/s - s -						THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPER
	A VIVI BOOK AND A LANGE							T T T T T T T T T T T T T T T T T T T
			при мум мен					
	T T T T T T T T T T T T T T T T T T T	***************************************						
	Control of the contro	птравовомы.						

### **SCHEDULE C**

### **CONTRACTOR HIV/AIDS PROGRAMME REPORT**

Project name:
Project Location:
Contract value of project: R
Department of Public Works Project Manager:
HIV/AIDS Programme duration: (ccyy/mm/dd)to (ccyy/mm/dd)
AWARENESS MATERIAL
Describe location of posters displayed during the programme:
Comments on posters:
Indicate total number of booklets distributed:
Comments on booklets:
CONDOMS
Indicate total number of male condoms distributed:
Indicate total number of female condoms distributed:
Describe where male condom dispenser was placed:
Describe where female condom dispenser was placed:
HIV/AIDS WORKSHOPS
Indicate the total number of HIV/AIDS workshops conducted:
Indicate the duration of workshops:
Indicate the total number of Workers that participated in the HIV/AIDS workshops:
Indicate the total number of Workers that were exposed to the video on HIV/AIDS in the Construction Industry:
Comments on HIV/AIDS workshops on site:

SCHEDULE C Page 1 of 2

GENERAL				
Briefly describe programme acti	vities and satisfaction with outcome:			
Additional comments, suggestio	ns or needs with regard to the HIV/A	IDS aware	eness prog	grammes on site:
	111111111111111111111111111111111111111			
Please indicate if your company focusing on HIV/AIDS awarenes HIV/AIDS Workers:	has a formal HIV/AIDS policy ss raising and care and supportof	Yes	No	Currently developing one
Please indicate if, to your kno HIV/AIDS related sicknesses. C	wledge, you have lost any workers one or more of the following might inc	s during ti dicate an h	he duratio HV/AIDS r	n of the project elated death:
Excessive weight loss Reactive TB Hair loss Severe tiredness	Coughing or chest pain when swallowing Persistent fever Diarrhea		Mei Mei	niting ningitis mory loss eumonia
Number of HIV/AIDS-related dea	aths:			
Contractor		ate		
Departmental Project Manage	, D	ate		

SCHEDULE C

### Site Information

PG-03.1(EC)

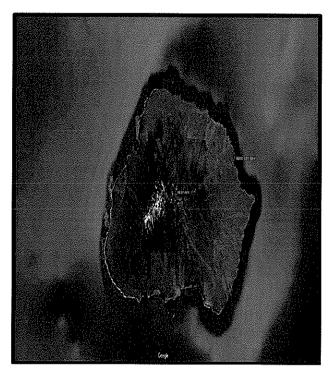


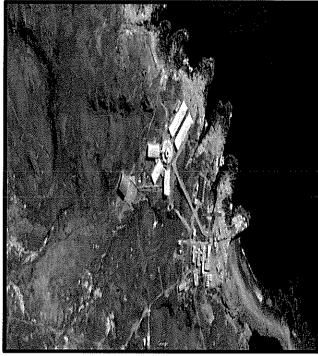
### PG-03.1 (EC) SITE INFORMATION - GCC 3<sup>rd</sup> Edition (2015)

Project title:	Marion Island: Supp Generator Sets	oly; installat	ion & commi	issioning of five i	indoor full base load 250 KVA
Tender no:		WCS no:	056477	Reference no:	

### **C4 Site Information**

### **Marion Island Base**





Terms of Reference for the Supply,
Installation and Commissioning of Five
(5) 250kva Indoor Emergency Prime
Generator Sets at Marion Island
Research Base —
Southern East of Cape Town



**TERMS OF REFERENCE** 

**FOR THE** 

SUPPLY, INSTALLATION AND COMMISSIONING OF FIVE (5) 250 kVA INDOOR EMERGENCY PRIMI GENERATOR SETS AT MARION ISLAND RESEARCH BASE – SOUTHERN EAST OF CAPE TOWN

### **TABLE OF CONTENTS**

DESCRIPTION	PAGE NO.
EXPERIENCE AND RESOURCES(AS PER THE DPW-09)	3-4
PROVISSION OF SERVICES	5
SPECIFICATION	6-9
	PROVISSION OF SERVICES

### 1. INTRODUCTION

The purpose of these Terms of Reference (TOR) is to provide the Department of Public Works and Infrastructure (the Department) with a framework for the appointment of a suitable service provider who shall purchase for the Department the equipment's listed in the BOQ. **The equipment's shall** be the Departments assets. The successful service provider will be required to deliver the equipment's to the Department of Public Works stores in Cape Town.

### 1.1 EXPERIENCE

The bidder must submit 3 (three) completed projects relating to Purchase, Installation, Programming, Commissioning of Generators OR Services, Repairs & Maintenance of Standby Generators with a minimum Value of R2 000 000.00 or more. Completed projects to be listed on the DPW-09 (EC) form.

The following documents must be submitted in relation to the above:

1. Appointment letter(s) with clear contract description, contract value, contract Duration and contact details.

OR

2. Completion Certificate with clear contract description, contract value and Contract duration

OR

Purchase order with clear contract description and contract value.
 The above documents must be accompanied by the reference letters with clear
 Contract description, duration and value and be aligned to the submitted
 Completed projects.

### 1.2 Resources: Qualified Staff-2 x Electrical Artisans.

The bidder must submit an Accredited N3 electrical certificate and Electrical trade test certificate with a minimum 3 years relevant experience in Repairs, Service, Maintenance and Installation of the Generators Only South African Citizens will be allowed to work in this project due to the Department dealing with Nationa Key Points. The bidder must attach a minimum of two (2) comprehensive CV (s) of staff with certified qualification (s) / certificate (s) - certified by the Commissioner of Oath/SAPS.

### 1.3 Resources: Qualified Staff -2 x Technician/Generator Specialist

The bidder must submit an accredited proof of passing N4 in Electrical Engineering field and Electrical trade test certificate with a minimum 5 years relevant experience in Repairs, Service & Maintenance and Installation of the Generators and Experience in the testing, programming, synchronizing of Generators panels. Only South African Citizens will be allowed to work in this project due to the Department dealing with National Key Points. The bidder must attach a minimum of two (2) comprehensive CV (s) of staff with certified qualification (s) / certificate (s) - certified by the Commissioner of Oath/SAPS.

### 1.4 Resources: Qualified Staff -1 x Team Leader

The bidder must submit an accredited proof of passing National Diploma or National Technical Diploma -Not in Electrical Engineering field, three phase Wireman License, and Valid ORHVS Certificate and Electrical trade test certificate with a minimum 5 years relevant supervisory experience in Repairs, Service, Maintenance and Installation of the Generators, Experience in the Testing, programming synchronizing of Generators panels Only South African Citizens will be allowed to work in this project due to the Department dealing with Nationa Key Points. The bidder must attach a comprehensive CV of the staff with certified qualification (s) / certificate (s) - certified by the Commissioner of Oath/SAPS.

### 1.5 Resources: Qualified Staff-1 x Electrical Engineer

The Electrical Engineer should have a minimum of Pr.Eng / Pr.Tech/Diploma in Electrical Engineering. Proo of registration with ECSA and more than 5 years in an extensive experience in Generators Installation, Lov Voltage installation, Switchgear and Protection Systems Maintenance and Commissioning. Only South Africar Citizens will be allowed to work in this project due to the Department dealing with National Key Points. The bidder must attach a comprehensive CV of the staff with certified qualification (s) / certificate (s) - certified by the Commissioner of Oath/SAPS.

### 2. PROVISION OF SERVICES

### PROJECT PLAN ON DELIVERY OF SERVICES BY THE SERVICE FROMER

The service provider, to provide a project implementation plan detailing the allocation of tasks and resources as well as details how they are going to deliver on the project, the project plan should fully be aligned to the scope of works (See Section Pricing Schedule document).

The project plan should address the following criteria:

- Delivery of Good Quality Equipment's:
- 1. Delivery Dates
  - a. Demonstration of equipment's at the time of delivery.
  - b. Guarantee Documents.
  - c. Assemble documentations
  - d. Commissioning of Generator
- Service Provider should provide the Department with the Manufactures SABS approved certificates.

### 7. BID PRICES

Bidders must express prices for their service in South African currency (Rand) as per Pricing Schedule. All prices must be inclusive of Value Added Tax and costs to be incurred that are necessary for the execution and completion of the contract in accordance with the bid document. (If you are not VAT vendor, please ignore)

Prices will remain firm for the duration of the contract.

### 8. PAYMENT CONDITIONS

Service providers will be paid within thirty (30) days after receipt of valid/legitimate invoices. Payments will be processed per deliverable accomplished as per the signed Service Level Agreement (SLA). On delivery and submission of the project report for each phase, an invoice can be submitted for wakcompleted. (Invoice will be accepted by email or hand delivery) Email to:

### Vuyolwethu.Guma@dpw.gov.za

Payment to suppliers within 30 days of invoice receipt is a national priority. In support of this and-towards compliance to section 38 (1) (f) of the PFMA and Treasury Regulation 8.2.3 an executive decision was taken to make electronic Invoice Submission (EIS) registration <u>compulsory</u> for all suppliers whose tender are successful. Assistance will be provided to the successful supplier(s) in this regard once the tender adjudication and awarding processes have been concluded and a supplier or supplier(s) appointed.

BIDDER TO COMPLETE THE BELOW AS THEIR PROPOSED GENERATOR TO PURCHASE FOR THE DEPARTMENT OR ALTERNATIVELY SUPPLY A BROCHURE OF THEIR PROPOSED GENERATOR.

### COMPULSORY REQUIREMENTS OF EQUIPMENT:

Standby Power Output:	265 kVA
Prime Power Output:	250 kVA

Engine Output Power: Greater than 225 kW (1500rpm)

Number of Cylinders: 5 in-line cylinders

Cooling Method: Water-cooled radiator/fan

Fuel Consumption at full load: Less than 54 i/h

### **SCHEDULES OF EQUIPMENT**

1	ENGINE	
1.1	COMMERCIAL	
	Name of Manufacturer	
	Country of Origin	
	Manufacture Type No.	 
	Make of fuel injection system	
	Make of governor	
	Governor type no.	 

1.2	MECHANICAL DATA		
	Nominal speed (rpm)		
	Strokes per working cycle	-	
	Bore (mm)		
	Stroke (mm)		
	Swept volume (litres)		
	Mean piston speed (m/s)		
	Compression ratio		
	Method of starting		
	Number of starter motors		
	Type of heater		
	Capacity of heater (kW)		
	Method of protection against high temperature and low oil pressure		
	Mass of engine (kg)		
	Is the engine turbo-charged?	(yes/no)	
1.3	RATING		
	Continuous standby sea level rating after allowing for ancillaries (kW)		
	Percentage (%) Derating for site conditions: For altitude (%)		
	For temperature (%)		
	For humidity (%)		
	Total percentage derating		
	Nett continuous site output		
	Minimum time for assumption of full load (s)		
	Are performance curves attached (yes/no)		
	Is the engine strictly in		

**************************************	accordance with specification (yes/no)	
1.4	MAINTENANCE INTERVALS	
	Lubricating oil change after (hours)	
	Oil filter element change after (hours)	
	Fuel filter element change after (hours)	
	Air filter element change after (hours)	
1.5	PERFORMANCE	
	Fuel consumption of the complete set at site in litres of electrical output:	
	Full load	-
	70% load	
	50% load	
2	ALTERNATOR	
2.1	COMMERCIAL	
	Name of Manufacturer	
	Country of origin	
	Manufacturer's type No.	
2.2	ELECTRICAL DATA	
	Terminal voltage	
	Method of excitation	
	Transient voltage dip after instantaneous application of full load	
	Voltage recovery (ms)	
	Steady state voltage regulation	
	Class of winding insulation (F/H/200)	

	is the alternator brushless? (yes/no)	
	Is the insulation tropicalised? (yes/no)	
2.3	MECHANICAL DATA	
	Nominal speed (rpm)	
	Maximum percentage overspeed	
	Number of bearings	
	Type of bearings	
	Mass of alternator (kg)	,
	Type of enclosure	
0.4	DEDECRMANOS	
2.4	PERFORMANCE	
	Derating for site conditions (%)	
	Efficiency @ Cos Phi (lagging)	· · · · · · · · · · · · · · · · · · ·
	Full load (%)	
	75% Load	
	50% Load .	<del></del>
3	CONSTRUCTION	
3.1	GENERAL DETAILS	
	Type of base	
	Type of coupling	
	Type of battery	
	Voltage of battery (V)	
	Capacity of battery (Ah)	
	Capacity of fuel service Tank (litres)	
	Are electric fuel pumps provided (yes/no)	
	Type of cilencer	