


TENDER DOCUMENT GOODS AND SERVICES		 <div>CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD</div>	
SUPPLY CHAIN MANAGEMENT			
SCM - 542	Approved by Branch Manager: 03/04/2020	Version: 9.1	Page 1 of 80

TENDER NO: 124S/2023/24

TENDER DESCRIPTION: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

CONTRACT PERIOD: THIRTY-SIX (36) MONTHS FROM DATE OF COMMENCEMENT OF CONTRACT

VOLUME 1: TENDERING PROCEDURES

CLOSING DATE: [6 March 2024]

CLOSING TIME: 10:00 a.m.

**TENDER BOX
NUMBER:** [153]

TENDER FEE:

R200.00 Non-refundable tender fee payable to City of Cape Town (CCT) for a hard copy of the tender document. This fee is not applicable to website downloads of the tender document.

TENDERER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual	
TRADING AS (if different from above)	

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

TENDER SERIAL NO.:
SIGNATURES OF CITY OFFICIALS AT TENDER OPENING
1
2
3

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VOLUME 1: THE TENDER

(1) GENERAL TENDER INFORMATION

- TENDER ADVERTISED** : **8 December 2023**
- SITE VISIT/CLARIFICATION MEETING** : 10h00 on 12 January 2024
(Not compulsory, but strongly recommended)
- VENUE FOR SITE VISIT/CLARIFICATION MEETING** : Skype:
<https://meet.capetown.gov.za/gideon.keyser/DGD5FHJC>
- TENDER BOX & ADDRESS** : **Tender Box as per front cover** at the **Tender & Quotation Boxes Office**, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town.
- : The Tender Document (which includes the Form of Offer and Acceptance) completed in all respects, plus any additional supporting documents required, must be submitted in a sealed envelope with the name and address of the tenderer, the endorsement **“TENDER NO. DP7297/2021/22: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)** the tender box No. and the closing date indicated on the envelope. The sealed envelope must be inserted into the appropriate official tender box before closing time.
- If the tender offer is too large to fit into the abovementioned box or the box is full, please enquire at the public counter (Tender Distribution Office) for alternative instructions. It remains the tenderer's responsibility to ensure that the tender is placed in either the original box or as alternatively instructed.

CCT TENDER REPRESENTATIVE

Name: Gideon Keyser

Tel. No.: (021) 444 8385

Email: gideon.keyser@capetown.gov.za

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS ‘OR EQUIVALENT’

(2) CONDITIONS OF TENDER

2.1 General

2.1.1 Actions

2.1.1.1 The City of Cape Town (CCT) and each tenderer submitting a tender offer shall comply with these Conditions of Tender. In their dealings with each other, they shall discharge their duties and obligations as set out in these Conditions of Tender, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations.

The parties agree that this tender, its evaluation and acceptance and any resulting contract shall also be subject to the Employer's Supply Chain Management Policy ('SCM Policy') that was applicable on the date the bid was advertised, save that if the Employer adopts a new SCM Policy which contemplates that any clause therein would apply to the contract emanating from this tender, such clause shall also be applicable to that contract. Please refer to this document contained on the Employer's website.

Abuse of the supply chain management system is not permitted and may result in the tender being rejected, cancellation of the contract, restriction of the supplier, and/or the exercise by the City of any other remedies available to it as described in the SCM Policy.

2.1.1.2 The CCT, the tenderer and their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the CCT shall declare any conflict of interest to the CCT at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict, and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

2.1.1.3 The CCT shall not seek, and a tenderer shall not submit a tender, without having a firm intention and capacity to proceed with the contract.

2.1.2 Interpretation

2.1.2.1 The additional requirements contained in the returnable documents are part of these Conditions of Tender.

2.1.2.2 These Conditions of Tender and returnable schedules which are required for tender evaluation purposes, shall form part of the contract arising from the invitation to tender.

2.1.3 Communication during tender process

Verbal or any other form of communication, from the CCT, its employees, agents or advisors during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the CCT, unless communicated by the CCT in writing to suppliers by its Director: Supply Chain Management or his nominee.

2.1.4 The CCT's right to accept or reject any tender offer

2.1.4.1 The CCT may accept or reject any tender offer and may cancel the tender process or reject all tender offers at any time before the formation of a contract. The CCT may, prior to the award of the tender, cancel a tender if:

- (a) due to changed circumstances, there is no longer a need for the services, works or goods requested;
or
- (b) funds are no longer available to cover the total envisaged expenditure; or
- (c) no acceptable tenders are received;
- (d) there is a material irregularity in the tender process; or
- (e) the parties are unable to negotiate market related pricing.

The CCT shall not accept or incur any liability to a tenderer for such cancellation or rejection, but will give written reasons for such action upon receiving a written request to do so.

2.1.5 Procurement procedures

2.1.5.1 General

Unless otherwise stated in the tender conditions, a contract will be concluded with the tenderer who scores the highest number of tender adjudication points.

CCT intends to appoint one tenderer, the highest ranked tenderer (“the winner”) for each of the sections for the specified work on a “winner-takes-all” basis:

- Section A: Siemens High Voltage Gas Insulated Switchgear
- Section B: Holec High Voltage Gas Insulated Switchgear
- Section C: ABB High Voltage Gas Insulated Switchgear
- Section D: Hitachi High Voltage Gas Insulated Switchgear
- Section E: Areva High Voltage Gas Insulated Switchgear
- Section F: XD High Voltage Gas Insulated Switchgear
- Section G: Online Partial Discharge Testing of High Voltage Gas Insulated Switchgear

However, sections A, B, C, D, E, F and G may be awarded to either a single Tenderer or to separate Tenderers. Unless otherwise stated in the tender conditions, for each of the sections, a contract will be concluded with the tenderer who scores the highest number of tender adjudication points and CCT reserves the right to appoint an alternative tenderer.

If insufficient responsive bids are received, the CCT reserves the right not to appoint a tenderer at all.

The contract period shall be for a period of **36 months** from the commencement date of the contract.

2.1.5.2 Proposal procedure using the two stage-system

A two-stage system will not be followed.

2.1.5.3 Nomination of Standby

Standby Bidder means a bidder, identified at the time of awarding a bid that will be considered for award should the contract be terminated for any reason whatsoever. In the event that a contract is terminated during the execution thereof, the CCT may consider the award of the contract, or non-award, to the standby bidder in terms of the procedures included its SCM Policy.

2.1.6 Objections, complaints, queries and disputes/ Appeals in terms of Section 62 of the Systems Act/ Access to court

2.1.6.1 Disputes, objections, complaints and queries

In terms of Regulations 49 and 50 of the Local Government: Municipal Finance Management Act, 56 of 2003 Municipal Supply Chain Management Regulations (Board Notice 868 of 2005):

- a) Persons aggrieved by decisions or actions taken by the City of Cape Town in the implementation of its supply chain management system, may lodge within 14 days of the decision or action, a written objection or complaint or query or dispute against the decision or action.

2.1.6.2 Appeals

- a) In terms of Section 62 of the Local Government: Municipal Systems Act, 32 of 2000 a person whose rights are affected by a decision taken by the City, may appeal against that decision by giving written notice of the appeal and reasons to the City Manager within 21 days of the date of the notification of the decision.
- b) An appeal must contain the following:
 - i. Must be in writing
 - ii. It must set out the reasons for the appeal
 - iii. It must state in which way the Appellant's rights were affected by the decision;
 - iv. It must state the remedy sought; and
 - v. It must be accompanied with a copy of the notification advising the person of the decision
- c) The relevant City appeal authority must consider the appeal and **may confirm, vary or revoke** the decision that has been appealed, but no such revocation of a decision may detract from any rights that

may have accrued as a result of the decision.

2.1.6.3 Right to approach the courts and rights in terms of Promotion of Administrative Justice Act, 3 of 2000 and Promotion of Access to Information Act, 2 of 2000

The sub- clauses above do not influence any affected person's rights to approach the High Court at any time or its rights in terms of the Promotion of Administrative Justice Act (PAJA) and Promotion of Access to Information Act (PAIA).

2.1.6.4 All requests referring to sub clauses 2.1.6.1 and 2.1.6.2 must be submitted in writing to:

The City Manager - C/o the Manager: Legal Compliance Unit, Legal Services Department, Corporate Services Directorate

Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001

Via post at: Private Bag X918, Cape Town, 8000

Via fax at: 021 400 5963 or 021 400 5830

Via email at: MSA.Appeals@capetown.gov.za

2.1.6.5 All requests referring to clause 2.1.6.3 must be submitted in writing to:

The City Manager - C/o the Manager: Access to Information Unit, Corporate Services Directorate

Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001

Via post at: Private Bag X918, Cape Town, 8000

Via fax at: 086 202 9982

Via email at: Access2info.Act@capetown.gov.za

2.1.6.6 The minimum standards regarding accessing and 'processing' of any personal information belonging to another in terms of Protection of Personal Information Act, 2013 (POPIA).

The Employer, its employees, representatives and sub-contractors may, from time to time, Process the Contractor's and/or its employees', representatives' and/or sub-contractors' Personal Information, for purposes of, and/or relating to, the tender, this agreement, for research purposes, and/or as otherwise may be envisaged in the Employer's Privacy Notice and/or in relation to the Employer's Supply Chain Management Policy or as may be otherwise permitted by law. This includes the employers due diligence assurance provider and the Appeal Authority

2.1.6.7 Compliance to the City's Appeals Policy.

"In terms of the City's Appeals Policy, a fixed upfront administration fee will be charged. In addition, a surcharge may be imposed for vexatious tender related appeals.

*The current approved administration fee is R300.00 and may be paid at any of the Municipal Offices or at the Civic Centre in Cape Town using the GL Data Capture Receipt. Alternatively, via EFT into the City's **NEDBANK** Account: **CITY OF CAPE TOWN** and using Reference number: **198158966**. You are required to send proof of payment when lodging your appeal.*

Should the payment of the administration fee of R300.00 not be received, such fee will be added as a Sundry Tariff to your municipal account.

In the event where you do not have a Municipal account with the City, the fee may be recovered in terms of the City's Credit Control and Debt Collection By-law, 2006 (as amended) and its Credit Control and Debt Collection Policy."

2.1.7 City of Cape Town Supplier Database Registration

Tenderers are required to be registered on the CCT Supplier Database as a service provider. Tenderers must register as such upon being requested to do so in writing and within the period contained in such a request, failing which no orders can be raised or payments processed from the resulting contract. In the case of Joint Venture partnerships this requirement will apply individually to each party of the Joint Venture.

Tenderers who wish to register on the City of Cape Town's Supplier Database may collect registration

forms from the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5). Registration forms and related information are also available on the City of Cape Town's website www.capetown.gov.za (follow the Supply Chain Management link to Supplier registration).

It is each tenderer's responsibility to keep all the information on the CCT Supplier Database updated.

2.1.8 National Treasury Web Based Central Supplier Database (CSD) Registration

Tenderers are required to be registered on the National Treasury Web Based Central Supplier Database (CSD) as a service provider. Tenderers must register as such upon being requested to do so in writing and within the period contained in such a request, failing which no orders can be raised or payments processed from the resulting contract. In the case of Joint Venture partnerships this requirement will apply individually to each party of the Joint Venture.

Tenderers who wish to register on the National Treasury Web Based Central Supplier Database (CSD) may do so via the web address **<https://secure.csd.gov.za>**.

It is each tenderer's responsibility to keep all the information on the National Treasury Web Based Central Supplier Database (CSD) updated.

2.2 Tenderer's obligations

2.2.1 Eligibility Criteria

2.2.1.1 Tenderers are obligated to submit a tender offer that complies in all aspects to the conditions as detailed in this tender document. An acceptable tender must "COMPLY IN ALL" aspects with the tender conditions, specifications, pricing instructions and contract conditions.

2.2.1.1.1 Submit a tender offer

Only those tender submissions from which it can be established that a clear, irrevocable and unambiguous offer has been made to CCT, by whom the offer has been made and what the offer constitutes, will be declared responsive.

2.2.1.1.2 Compliance with requirements of CCT SCM Policy and procedures

Only those tenders that are compliant with the requirements below will be declared responsive:

- a) A completed **Details of Tenderer** to be provided (applicable schedule to be completed);
- b) A completed **Certificate of Authority for Partnerships/ Joint Ventures/ Consortiums** to be provided authorising the tender to be made and the signatory to sign the tender on the partnership /joint venture/consortium's (applicable schedule to be completed);
- c) A copy of the partnership / joint venture / consortium agreement to be provided.
- d) A completed **Declaration of Interest – State Employees** to be provided and which does not indicate any non-compliance with the legal requirements relating to state employees (applicable schedule to be completed);
- e) A completed **Declaration – Conflict of Interest and Declaration of Bidders' past Supply Chain Management Practices** to be provided and which does not indicate any conflict or past practises that renders the tender non-responsive based on the conditions contained thereon (applicable schedules to be completed);
- f) A completed **Certificate of Independent Bid Determination** to be provided and which does not indicate any non-compliance with the requirements of the schedule (applicable schedule to be completed);
- g) The tenderer (including any of its directors or members), has not been restricted in terms of abuse of the Supply Chain Management Policy,
- h) The tenderer's tax matters with SARS are in order, or the tenderer is a foreign supplier that is not required to be registered for tax compliance with SARS;
- i) The tenderer is not an advisor or consultant contracted with the CCT whose prior or current obligations creates any conflict of interest or unfair advantage,
- j) The tenderer is not a person, advisor, corporate entity or a director of such corporate entity, involved with the bid specification committee;
- k) A completed **Authorisation for the Deduction of Outstanding Amounts Owed to the City of Cape Town** to be provided and which does not indicate any details that renders the tender non-responsive based on the conditions contained thereon (applicable schedules to be completed);
- l) The tenderer (including any of its directors or members), has not been found guilty of contravening the Competition Act 89 of 1998, as amended from time to time;
- m) The tenderer (including any of its directors or members), has not been found guilty on any other basis listed in the Supply Chain Management Policy.

2.2.1.1.3 Compulsory clarification meeting

Not applicable.

2.2.1.1.4 Minimum score for functionality: Section A – Siemens High Voltage GIS

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The period up to and including the closing date of this tender shall be used to determine the number of years of proven track record of a tenderer and the minimum number of years' experience of key personnel for functionality points allocation.

The names of key personnel provided that meet the minimum number of years' experience will only be counted once for point allocation i.e. an individual will not be granted points as both a GIS specialist and a Service Technician.

Criteria No.	Evaluation Criteria	Applicable values	Points	Maximum possible Score
Company Experience				
1.	Proven track record of service provider for work specified on switchgear makes and types as per clause 13.10.5 of this specification (Complete Schedule 13 A2)	< 5 years	0	34
		≥ 5 years	34	
Key Personnel				
2.	A GIS Specialist shall have the relevant knowledge and experience and an OEM competency certificate as per clauses 13.10.6 and 13.10.7 of this specification. (Complete Schedule 13 A1)	0 or 1 GIS Specialists	0	33
		2 GIS Specialists	18	
		≥ 3 GIS Specialists	33	
3.	A Service Technician shall have the relevant and experience as per clause 13.10.8 of this specification. (Complete Schedule 13 A1)	0 or 1 Service Technician	0	33
		2 Service Technicians	18	
		≥ 3 Service Technicians	33	

The minimum qualifying score for functionality is **70** out of a maximum of **100**.

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring.

2.2.1.1.5 Minimum score for functionality: Section B – Holec High Voltage GIS

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The period up to and including the closing date of this tender shall be used to determine the number of years of proven track record of a tenderer and the minimum number of years' experience of key personnel for functionality points allocation.

The names of key personnel provided that meet the minimum number of years' experience will only be counted once for point allocation i.e. an individual will not be granted points as both a GIS specialist and a Service Technician.

Criteria No.	Evaluation Criteria	Applicable values	Points	Maximum possible Score
Company Experience				
1	Proven track record of service provider for work specified on switchgear makes and types as per clause 13.10.5 of this specification (Complete Schedule 13 B2)	< 5 years	0	34
		≥ 5 years	34	
Key Personnel				
2	A GIS Specialist shall have the relevant knowledge and experience and an OEM competency certificate as per clauses 13.10.6 and 13.10.7 of this specification. (Complete Schedule 13 B1)	0 GIS Specialists	0	33
		1 GIS Specialist	3	
		≥ 2 GIS Specialists	33	
3	A Service Technician shall have the relevant and experience as per clause 13.10.8 of this specification. (Complete Schedule 13 B1)	0 Service Technicians	0	33
		1 Service Technician	3	
		≥ 2 Service Technicians	33	

The minimum qualifying score for functionality is 70 out of a maximum of 100

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring.

2.2.1.1.6 Minimum score for functionality: Section C – ABB High Voltage GIS

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The period up to and including the closing date of this tender shall be used to determine the number of years of proven track record of a tenderer and the minimum number of years' experience of key personnel for functionality points allocation.

The names of key personnel provided that meet the minimum number of years' experience will only be counted once for point allocation i.e. an individual will not be granted points as both a GIS specialist and a Service Technician.

Criteria No.	Evaluation Criteria	Applicable values	Points	Maximum possible Score
Company Experience				
1	Proven track record of service provider for work specified on switchgear makes and types as per clause 13.10.5 of this specification	< 5 years	0	34
	(Complete Schedule 13 C2)	≥ 5 years	34	
Key Personnel				
2	A GIS Specialist shall have the relevant knowledge and experience and an OEM competency certificate as per clauses 13.10.6 and 13.10.7 of this specification. (Complete Schedule 13 C1)	0 GIS Specialists	0	33
		1 GIS Specialist	3	
		≥ 2 GIS Specialist	33	
3	A Service Technician shall have the relevant and experience as per clause 13.10.8 of this specification. (Complete Schedule 13 C1)	0 Service Technicians	0	33
		1 Service Technician	3	
		≥ 2 Service Technicians	33	

The minimum qualifying score for functionality is 70 out of a maximum of 100

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring.

2.2.1.1.7 Minimum score for functionality: Section D – HITACHI High Voltage GIS

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The period up to and including the closing date of this tender shall be used to determine the number of years of proven track record of a tenderer and the minimum number of years' experience of key personnel for functionality points allocation.

The names of key personnel provided that meet the minimum number of years' experience will only be counted once for point allocation i.e. an individual will not be granted points as both a GIS specialist and a Service Technician.

Criteria No.	Evaluation Criteria	Applicable values	Points	Maximum possible Score
Company Experience				
1	Proven track record of service provider for work specified on switchgear makes and types as per clause 13.10.5 of this specification	< 5 years	0	34
	(Complete Schedule 13 D2)	≥ 5 years	34	
Key Personnel				
2	A GIS Specialist shall have the relevant knowledge and experience and an OEM competency certificate as per clauses 13.10.6 and 13.10.7 of this specification. (Complete Schedule 13 D1)	0 or 1 GIS Specialists	0	33
		2 GIS Specialist	18	
		≥ 3 GIS Specialist	33	
3	A Service Technician shall have the relevant and experience as per clause 13.10.8 of this specification. (Complete Schedule 13 D1)	0 Service Technicians	0	33
		1 Service Technician	18	
		≥ 2 Service Technicians	33	

The minimum qualifying score for functionality is 70 out of a maximum of 100

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring.

2.2.1.1.8 Minimum score for functionality: Section E – AREVA HV GIS

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The period up to and including the closing date of this tender shall be used to determine the number of years of proven track record of a tenderer and the minimum number of years' experience of key personnel for functionality points allocation.

The names of key personnel provided that meet the minimum number of years' experience will only be counted once for point allocation i.e. an individual will not be granted points as both a GIS specialist and a Service Technician.

Criteria No.	Evaluation Criteria	Applicable values	Points	Maximum possible Score
Company Experience				
1	Proven track record of service provider for work specified on switchgear makes and types as per clause 13.10.5 of this specification	< 5 years	0	34
	(Complete Schedule 13 E2)	≥ 5 years	34	
Key Personnel				
2	A GIS Specialist shall have the relevant knowledge and experience and an OEM competency certificate as per clauses 13.10.6 and 13.10.7 of this specification. (Complete Schedule 13 E1)	0 or 1 GIS Specialists	0	33
		2 GIS Specialist	18	
		≥ 3 GIS Specialist	33	
3	A Service Technician shall have the relevant and experience as per clause 13.10.8 of this specification. (Complete Schedule 13 E1)	0 Service Technicians	0	33
		1 Service Technician	18	
		≥ 2 Service Technicians	33	

The minimum qualifying score for functionality is 70 out of a maximum of 100

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring

2.2.1.1.9 Minimum score for functionality: Section F – XD HV GIS

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The period up to and including the closing date of this tender shall be used to determine the number of years of proven track record of a tenderer and the minimum number of years' experience of key personnel for functionality points allocation.

The names of key personnel provided that meet the minimum number of years' experience will only be counted once for point allocation i.e. an individual will not be granted points as both a GIS specialist and a Service Technician.

Criteria No.	Evaluation Criteria	Applicable values	Points	Maximum possible Score
Company Experience				
1	Proven track record of service provider for work specified on switchgear makes and types as per clause 13.10.5 of this specification	< 5 years	0	34
	(Complete Schedule 13 F2)	≥ 5 years	34	
Key Personnel				
2	A GIS Specialist shall have the relevant knowledge and experience and an OEM competency certificate as per clauses 13.10.6 and 13.10.7 of this specification. (Complete Schedule 13 F1)	0 or 1 GIS Specialists	0	33
		2 GIS Specialist	18	
		≥ 3 GIS Specialist	33	
3	A Service Technician shall have the relevant and experience as per clause 13.10.8 of this specification. (Complete Schedule 13 F1)	0 Service Technicians	0	33
		1 Service Technician	18	
		≥ 2 Service Technicians	33	

The minimum qualifying score for functionality is 70 out of a maximum of 100

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring

2.2.1.1.10 Minimum score for functionality: Section G – Online Partial Discharge Testing

Only those tenders submitted by tenderers who achieve the minimum score for functionality as stated below will be declared responsive.

The description of the functionality criteria and the maximum possible score for each is shown in the table below. The score achieved for functionality will be the sum of the scores achieved, in the evaluation process, for the individual criteria.

The period up to and including the closing date of this tender shall be used to determine the number of years of proven track record of a tenderer and the minimum number of years' experience of key personnel for functionality points allocation.

The names of key personnel provided that meet the minimum number of years' experience will only be counted once for point allocation i.e. an individual will not be granted points as both a GIS specialist and a Service Technician.

Criteria No.	Evaluation Criteria	Applicable values	Points	Maximum possible Score
Company Experience				
1	Proven track record of service provider on online partial discharge testing on HV GIS similar to the makes and types listed in table 2 referenced in clause 13.7.1.13. The information shall be supplied as per clause 13.17.5 of this specification (Complete Schedule 13 G2)	< 5 years	0	34
		≥ 5 years	34	
Key Personnel				
2	A Senior Test Technician shall have the relevant knowledge and experience in online partial discharge testing on HV GIS similar to the makes and types listed in table 2 referenced in clause 13.7.1.13. The information shall be supplied as per clauses 13.17.15 of this specification. (Complete Schedule 13 G1)	0 Senior Test Technician	0	36
		1 Senior Test Technicians	18	
		≥ 2 Senior Test Technicians	36	
3	A Test Technician shall have the relevant and experience in online partial discharge testing on HV GIS similar to the makes and types listed in table 2 referenced in clause 13.7.1.13. The information shall be supplied as per for the clauses13.17.13 and 13.17.14 of this specification. (Complete Schedule 13 G1	0 Test Technicians	0	30
		1 Test Technician	18	
		≥ 2 Test Technicians	30	

The minimum qualifying score for functionality is 70 out of a maximum of 100

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring

2.2.1.1.11 Provision of samples

Not applicable

2.2.2 Cost of tendering

The CCT will not be liable for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

2.2.3 Check documents

The documents issued by the CCT for the purpose of a tender offer are listed in the index of this tender document.

Before submission of any tender, the tenderer should check the number of pages, and if any are found to be missing or duplicated, or the figures or writing is indistinct, or if the Price Schedule contains any obvious errors, the tenderer must apply to the CCT at once to have the same rectified.

2.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the CCT only for the purpose of preparing and submitting a tender offer in response to the invitation.

2.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, Conditions of Contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

2.2.6 Acknowledge and comply with notices

Acknowledge receipt of notices to the tender documents, which the CCT may issue, fully comply with all instructions issued in the notices, and if necessary, apply for an extension of the closing time stated on the front page of the tender document, in order to take the notices into account. Notwithstanding any requests for confirmation of receipt of notices issued, the tenderer shall be deemed to have received such notices if the CCT can show proof of transmission thereof via electronic mail, facsimile or registered post.

2.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarise themselves with aspects of the proposed work, services or supply and pose questions. Details of the meeting(s) are stated in the General Tender Information.

Tenderers should be represented at the site visit/clarification meeting by a person who is suitably qualified and experienced to comprehend the implications of the work involved.

2.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the CCT at least one week before the closing time stated in the General Tender Information, where possible.

2.2.9 Pricing the tender offer

2.2.9.1 Comply with all pricing instructions as stated on the Price Schedule.

2.2.10 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the CCT in writing, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

2.2.11 Alternative tender offers

2.2.11.1 Unless otherwise stated in the tender conditions submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted.

If a tenderer wishes to submit an alternative tender offer, he shall do so as a separate offer on a complete set of tender documents. The alternative tender offer shall be submitted in a separate sealed envelope clearly marked "Alternative Tender" in order to distinguish it from the main tender offer.

Only the alternative of the highest ranked acceptable main tender offer (that is, submitted by the same tenderer) will be considered, and if appropriate, recommended for award.

Alternative tender offers of any but the highest ranked main tender offer will not be considered.

An alternative of the highest ranked acceptable main tender offer that is priced higher than the main tender offer may be recommended for award, provided that the ranking of the alternative tender offer is higher than the ranking of the next ranked acceptable main tender offer.

The CCT will not be bound to consider alternative tenders and shall have sole discretion in this regard.

In the event that the alternative is accepted, the tenderer warrants that the alternative offer complies in all respects with the CCT's standards and requirements.

2.2.11.2 Accept that an alternative tender offer may be based only on the criteria stated in the tender conditions or criteria otherwise acceptable to the CCT.

2.2.12 Submitting a tender offer

2.2.12.1 Submit one tender offer only on the original tender documents as issued by the CCT, either as a single tendering entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the contract conditions and described in the specifications. Only those tenders submitted on the tender documents as issued by the CCT together with all Returnable Schedules duly completed and signed will be declared responsive.

2.2.12.2 Return the entire document to the CCT after completing it in its entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

2.2.12.3 Submit the parts of the tender offer communicated on paper as an original with an English translation for any part of the tender submission not made in English.

1 (One) copy(ies) of the following elements of the bid submission must be submitted separately bound in the same envelope where possible:

Part	Heading
5	Pricing Schedules
6	Supporting Schedules
	All other attachments submitted by bidder

2.2.12.4 Sign the original tender offer where required in terms of the tender conditions. The tender shall be signed by a person duly authorised to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation of the joint venture or any other document signed by all parties, in which is defined precisely the conditions under which the joint venture will function, its period of duration, the persons authorised to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner.

2.2.12.5 Where a two-envelope system is required in terms of the tender conditions, place and seal the returnable documents listed in the tender conditions in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the CCT's address and identification details stated in the General Tender Information, as well as the tenderer's name and contact address.

2.2.12.6 Seal the original tender offer and copy packages together in an outer package that states on the outside only the CCT's address and identification details as stated in the General Tender Information. . If it is not possible to submit the original tender and the required copies (see 2.2.12.3) in a single envelope, then the tenderer must seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY" in addition to the aforementioned tender submission details.

2.2.12.7 Accept that the CCT shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

2.2.12.8 Accept that tender offers submitted by facsimile or e-mail will be rejected by the CCT, unless stated otherwise in the tender conditions.

2.2.12.9 By signing the offer part of the Form of Offer (**Section 2, Part A**) the tenderer warrants that all information provided in the tender submission is true and correct.

2.2.12.10 Tenders must be properly received and deposited in the designated tender box (as detailed on the front page of this tender document) on or before the closing date and before the closing time, in the relevant tender box at the Tender & Quotation Boxes Office situated on the 2nd floor, Concourse Level, Civic Centre, 12 Hertzog Boulevard, Cape Town. If the tender submission is too large to fit in the allocated box, please enquire at the public counter for assistance.

2.2.12.12 The tenderer must record and reference all information submitted contained in other documents for example cover letters, brochures, catalogues, etc. in the returnable schedule titled **List of Other Documents Attached by Tenderer**.

2.2.13 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the CCT as non-responsive.

2.2.14 Closing time

2.2.14.1 Ensure that the CCT receives the tender offer at the address specified in the General Tender Information prior to the closing time stated on the front page of the tender document.

2.2.14.2 Accept that, if the CCT extends the closing time stated on the front page of the tender document for any reason, the requirements of these Conditions of Tender apply equally to the extended deadline.

2.2.14.3 Accept that, the CCT shall not consider tenders that are received after the closing date and time for such a tender (late tenders).

2.2.15 Tender offer validity and withdrawal of tenders

2.2.15.1 Warrants that the tender offer(s) remains valid, irrevocable and open for acceptance by the CCT at any time for a period of 120 days after the closing date stated on the front page of the tender document.

2.2.15.2 Notwithstanding the period stated above, bids shall remain valid for acceptance for a period of twelve (12) months after the expiry of the original validity period, unless the City is notified in writing of anything to the contrary by the bidder. The validity of bids may be further extended by a period of not more than six months subject to mutual agreement and administrative processes and upon approval by the City Manager.

2.2.15.3 A tenderer may request in writing, after the closing date, that the tender offer be withdrawn. Such withdrawal will be permitted or refused at the sole discretion of the CCT after consideration of the reasons for the withdrawal, which shall be fully set out by the tenderer in such written request for withdrawal. Should the tender offer be withdrawn in contravention hereof, the tenderer agrees that:

- a) it shall be liable to the CCT for any additional expense incurred or losses suffered by the CCT in having either to accept another tender or, if new tenders have to be invited, the additional expenses incurred or losses suffered by the invitation of new tenders and the subsequent acceptance of any other tender;
- b) the CCT shall also have the right to recover such additional expenses or losses by set-off against monies which may be due or become due to the tenderer under this or any other tender or contract or against any guarantee or deposit that may have been furnished by the tenderer or on its behalf for the due fulfilment of this or any other tender or contract. Pending the ascertainment of the amount of such additional expenses or losses, the CCT shall be entitled to retain such monies, guarantee or deposit as security for any such expenses or loss.

2.2.16 Clarification of tender offer, or additional information, after submission

Provide clarification of a tender offer, or additional information, in response to a written request to do so from the CCT during the evaluation of tender offers within the time period stated in such request. No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: This clause does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the CCT elect to do so.

Failure, or refusal, to provide such clarification or additional information within the time for submission stated in the CCT's written request may render the tender non-responsive.

2.2.17 Provide other material

2.2.17.1 Provide, on request by the CCT, any other material that has a bearing on the tender offer, the tenderer's commercial position (including joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the CCT for the purpose of the evaluation of the tender. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the CCT's request, the CCT may regard the tender offer as non-responsive.

2.2.17.2 Provide, on written request by the CCT, where the transaction value inclusive of VAT **exceeds R 10 million**:

- a) audited annual financial statement for the past 3 years, or for the period since establishment if established during the past 3 years, if required by law to prepare annual financial statements for auditing;
- b) a certificate signed by the tenderer certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days;
- c) particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;
- d) a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.

Each party to a Consortium/Joint Venture shall submit separate certificates/statements in the above regard.

2.2.17.3 Tenderers undertake to fully cooperate with the CCT's external service provider appointed to perform a due diligence review and risk assessment upon receipt of such written instruction from the CCT.

2.2.18 Samples, Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender conditions or specifications.

If the **Specification** requires the tenderer to provide samples, these shall be provided strictly in accordance with the instructions set out in the Specification.

If such samples are not submitted as required in the bid documents or within any further time stipulated by the CCT in writing, then the bid concerned may be declared non-responsive.

The samples provided by all successful bidders will be retained by the CCT for the duration of any subsequent contract. Bidders are to note that samples are requested for testing purposes therefore samples submitted to the CCT may not in all instances be returned in the same state of supply and in other instances may not be returned at all. Unsuccessful bidders will be advised by the Project Manager or dedicated CCT Official to collect their samples, save in the aforementioned instances where the samples would not be returned.

2.2.19 Certificates

The tenderer must provide the CCT with all certificates as stated below:

2.2.19.1. Broad-Based Black Economic Empowerment ACT

In order to qualify for preference points for HDI and/or Specific Goals, it is the responsibility of the tenderer to submit documentary proof, as either certificates, sworn affidavits or any other requirement prescribed in terms of the B-BBEE Act or any other legislation relevant for the points claimed for that specific goal.

Tenderers are further referred to the content of the Preference Schedule for the full terms and conditions applicable to the awarding of preference points.

2.2.19.2 Evidence of tax compliance

Tenderers shall be registered with the South African Revenue Service (SARS) and their tax affairs must be in order and they must be tax compliant subject to the requirements of clause 2.2.1.1.2.h. In this regard, it is the responsibility of the Tenderer to submit evidence in the form of a valid Tax Compliance Status PIN number issued by SARS to the CCT at the Supplier Management Unit located within the Supplier Management /

Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5), or included with this tender. The tenderer must also provide its Tax Compliance Status PIN number on the **Details of Tenderer** pages of the tender submission.

Each party to a Consortium/Joint Venture shall submit a separate Tax Compliance Status PIN number.

Before making an award the City must verify the bidder's tax compliance status. Where the recommended bidder is not tax compliant, the bidder should be notified of the non-compliant status and be requested to submit to the City, within 7 working days, written proof from SARS that they have made arrangement to meet their outstanding tax obligations. The proof of tax compliance submitted by the bidder must be verified by the City via CSD or e-Filing. The City should reject a bid submitted by the bidder if such bidder fails to provide proof of tax compliance within the timeframe stated herein.

Only foreign suppliers who have answered "NO" to all the questions contained in the Questionnaire to Bidding Foreign Suppliers section on the **Details of Tenderer** pages of the tender submission, are not required to register for a tax compliance status with SARS.

2.2.20 Compliance with Occupational Health and Safety Act, 85 of 1993

Tenderers are to note the requirements of the Occupational Health and Safety Act, 85 of 1993. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

In this regard the Tenderer shall submit **upon written request to do so by the CCT**, a Health and Safety Plan in sufficient detail to demonstrate the necessary competencies and resources to deliver the goods or services all in accordance with the Act, Regulations and Health and Safety Specification.

2.2.21 Claims arising from submission of tender

The tenderer warrants that it has:

- a) inspected the Specifications and read and fully understood the Conditions of Contract.
- b) read and fully understood the whole text of the Specifications and Price Schedule and thoroughly acquainted himself with the nature of the goods or services proposed and generally of all matters which may influence the Contract.
- c) visited the site(s) where delivery of the proposed goods will take place, carefully examined existing conditions, the means of access to the site(s), the conditions under which the delivery is to be made, and acquainted himself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials, plant and equipment to and from the site(s) and made the necessary provisions for any additional costs involved thereby.
- d) requested the CCT to clarify the actual requirements of anything in the Specifications and Price Schedule, the exact meaning or interpretation of which is not clearly intelligible to the Tenderer.
- e) received any notices to the tender documents which have been issued in accordance with the CCT's Supply Chain Management Policy.

The CCT will therefore not be liable for the payment of any extra costs or claims arising from the submission of the tender.

2.3 The CCT's undertakings

2.3.1 Respond to requests from the tenderer

2.3.1.1 Unless otherwise stated in the Tender Conditions, respond to a request for clarification received up to one week (where possible) before the tender closing time stated on the front page of the tender document.

2.3.1.2 The CCT's representative for the purpose of this tender is stated on the General Tender Information page.

2.3.2 Issue Notices

If necessary, issue addenda in writing that may amend or amplify the tender documents to each tenderer during the period from the date the tender documents are available until one week before the tender closing time stated in the Tender Data. The Employer reserves its rights to issue addenda less than one week before the tender closing time in exceptional circumstances. If, as a result a tenderer applies for an extension to the closing time stated on the front page of the tender document, the CCT may grant such extension and, shall then notify all tenderers who drew documents.

Notwithstanding any requests for confirmation of receipt of notices issued, the tenderer shall be deemed to have received such notices if the CCT can show proof of transmission thereof via electronic mail, facsimile or registered post.

2.3.3 Opening of tender submissions

2.3.3.1 Unless the two-envelope system is to be followed, open tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender conditions.

Tenders will be opened immediately after the closing time for receipt of tenders as stated on the front page of the tender document, or as stated in any Notice extending the closing date and at the closing venue as stated in the General Tender Information.

2.3.3.2 Announce at the meeting held immediately after the opening of tender submissions, at the closing venue as stated in the General Tender Information, the name of each tenderer whose tender offer is opened and, where possible, the prices indicated.

2.3.3.3 Make available a record of the details announced at the tender opening meeting on the CCT's website (<http://www.capetown.gov.za/en/SupplyChainManagement/Pages/default.aspx>.)

2.3.4 Two-envelope system

2.3.4.1 Where stated in the tender conditions that a two-envelope system is to be followed, open only the technical proposal of tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender conditions and announce the name of each tenderer whose technical proposal is opened.

2.3.4.2 Evaluate the quality of the technical proposals offered by tenderers, then advise tenderers who have submitted responsive technical proposals of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who have submitted responsive technical proposals in accordance with the requirements as stated in the tender conditions, and announce the total price and any preferences claimed. Return unopened financial proposals to tenderers whose technical proposals were non responsive.

2.3.5 Non-disclosure

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

2.3.6 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

2.3.7 Test for responsiveness

2.3.7.1 Appoint a Bid Evaluation Committee and determine after opening whether each tender offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

2.3.7.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the CCT's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the goods, services or supply identified in the Specifications,
- b) significantly change the CCT's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of any material deviation or qualification.

The CCT reserves the right to accept a tender offer which does not, in the CCT's opinion, materially and/or substantially deviate from the terms, conditions, and specifications of the tender documents.

2.3.8 Arithmetical errors, omissions and discrepancies

2.3.8.1 Check the responsive tenders for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the Price Schedule; or
- c) arithmetic errors in:
 - i) line item totals resulting from the product of a unit rate and a quantity in the Price Schedule; or
 - ii) the summation of the prices; or
 - iii) calculation of individual rates.

2.3.8.2 The CCT must correct the arithmetical errors in the following manner:

- a) Where there is a discrepancy between the amounts in words and amounts in figures, the amount in words shall govern.
- b) If pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as tendered shall govern, and the unit rate shall be corrected.
- c) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if Price Schedules apply) to achieve the tendered total of the prices.

Consider the rejection of a tender offer if the tenderer does not correct or accept the correction of the arithmetical error in the manner described above.

2.3.8.3 In the event of tendered rates or lump sums being declared by the CCT to be unacceptable to it because they are not priced, either excessively low or high, or not in proper balance with other rates or lump sums, the tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the CCT is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it.

The tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the CCT, but this shall be done without altering the tender offer in accordance with this clause.

Should the tenderer fail to amend his tender in a manner acceptable to and within the time stated by the CCT, the CCT may declare the tender as non-responsive.

2.3.9 Clarification of a tender offer

The CCT may, after the closing date, request additional information or clarification from tenderers, in writing on any matter affecting the evaluation of the tender offer or that could give rise to ambiguity in a contract arising from the tender offer, which written request and related response shall not change or affect their competitive position or the substance of their offer. Such request may only be made in writing by the Director: Supply Chain Management using any means as appropriate.

2.3.10 Evaluation of tender offers

2.3.10.1 General

2.3.10.1.1 Reduce each responsive tender offer to a comparative price and evaluate them using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender conditions.

2.3.10.1.2 For evaluation purposes only, the effects of the relevant contract price adjustment methods will be considered in the determination of comparative prices as follows:

- a. If the selected method is based on bidders supplying rates or percentages for outer years, comparative prices would be determined over the entire contract period based on such rates or percentages.
- b. If the selected method is based on a formula, indices, coefficients, etc. that is the same for all bidders during the contract period, comparative prices would be the prices as tendered for year one.
- c. If the selected method is based on a formula, indices, coefficients, etc. that varies between bidders, comparative prices would be determined over the entire contract period based on published indices relevant during the 12 months prior to the closing date of tenders.
- d. If the selected method includes an imported content requiring rate of exchange variation, comparative prices would be determined based on the exchange rates tendered for the prices as tendered for year one. The rand equivalent of the applicable currency 14 days prior to the closing date of tender will be used (the CCT will check all quoted rates against those supplied by its own bank).
- e. If the selected method is based on suppliers' price lists, comparative prices would be the prices as tendered for year one.
- f. If the selected method is based on suppliers' price lists and / or rate of exchange, comparative prices would be determined as tendered for year one whilst taking into account the tendered percentage subject to rate of exchange (see sub clause (d) for details on the calculation of the rate of exchange).

2.3.10.1.3 Where the scoring of functionality forms part of a bid process, each member of the Bid Evaluation Committee must individually score functionality. The individual scores must then be interrogated and calibrated if required where there are significant discrepancies. The individual scores must then be added together and averaged to determine the final score.

2.3.10.2 Decimal places

Score financial offers, preferences and functionality, as relevant, to two decimal places.

2.3.10.3 Scoring of tenders (price and preference)

2.3.10.3.1 Points for price will be allocated in accordance with the formula set out in this clause based on the price per item / rates as set out in the **Price Schedule (Part 5)**:

- based on the sum of the prices/rates in relation to the estimated quantities.

2.3.10.3.2 Points for preference will be allocated in accordance with the provisions of **Preference Schedule** and the table in this clause.

2.3.10.3.3 The terms and conditions of **Preference Schedule** as it relates to preference shall apply in all respects to the tender evaluation process and any subsequent contract.

2.3.10.3.4 Applicable formula:

The 90/10 preference point system will apply to this tender and the lowest acceptable tender will be used to determine the applicable preferences

The 90/10 price/preference points system will be applied to the evaluation of responsive tenders over a Rand value of R50'000'000 (all applicable taxes included), whereby the order(s) will be placed with the tenderer(s) scoring the highest total number of adjudication points.

Price shall be scored as follows:

$$Ps = 90 \times \left(1 - \frac{(Pt - Pmin)}{Pmin}\right)$$

Where: Ps is the number of points scored for price;
Pt is the price of the tender under consideration;
Pmin is the price of the lowest responsive tender.

Preference points shall be based on the Specific Goal as per below:

Table B1: Awards above R50 mil (VAT Inclusive)

#	Specific goals allocated points	Preference Points (90/10) <i>Above R50 mil</i>	Evidence
	<i>Persons, or categories of persons, historically disadvantaged- (HDI) by unfair discrimination on the basis of</i>		
1	Gender are women (ownership)* >75% - 100% women ownership: 3 points >50% - 75% women ownership: 2 points >25% - 50% women ownership: 1.5 points >0% - 25% women ownership: 0.5 points 0% women ownership = 0 points	3	<ul style="list-style-type: none"> Company Registration Certification Central Supplier Database report
2	Race are black persons (ownership)* >75% - 100% black ownership: 3 points >50% - 75% black ownership: 2 points >25% - 50% black ownership: 1.5 points >0% - 25% black ownership: 0.5 points 0% black ownership = 0 points	3	<ul style="list-style-type: none"> B-BBEE certificate; Company Registration Certification Central Supplier Database report
3	Disability are disabled persons (ownership)* <i>WHO disability guideline</i> >2% ownership: 1 point >0% - 2% ownership: 0.5 point 0% ownership = 0 points	1	<ul style="list-style-type: none"> Proof of disability Company Registration Certification
	<i>Reconstruction and Development Programme (RDP) as published in Government Gazette</i>		
4	Promotion of Micro and Small Enterprises <i>Micro with a turnover up to R20million and Small with a turnover up to R80 million as per National Small Enterprise Act, 1996 (Act No.102 of 1996)</i> <i>SME partnership, sub-contracting, joint venture or consortiums</i>	3	<ul style="list-style-type: none"> B-BBEE status level of contributor; South African owned enterprises; Financial Statement to determine annual turnover
	Total points	10	

*Ownership: main tendering entity

2.3.10.5 Risk Analysis

Notwithstanding compliance with regard to any requirements of the tender, the CCT will perform a risk analysis in respect of the following:

- a) reasonableness of the financial offer
- b) reasonableness of unit rates and prices
- c) the tenderer's ability to fulfil its obligations in terms of the tender document, that is, that the tenderer can demonstrate that he/she possesses the necessary professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, capacity, experience, reputation, personnel to perform the contract, etc.; the CCT reserves the right to consider a tenderer's existing contracts with the CCT in this regard
- d) any other matter relating to the submitted bid, the tendering entity, matters of compliance, verification of submitted information and documents, etc.

The conclusions drawn from this risk analysis will be used by the CCT in determining the acceptability of the tender offer.

No tenderer will be recommended for an award unless the tenderer has demonstrated to the satisfaction of the CCT that he/she has the resources and skills required.

2.3.11 Negotiations with preferred tenderers

The CCT may negotiate the final terms of a contract with tenderers identified through a competitive tendering process as preferred tenderers provided that such negotiation:

- a) does not allow any preferred tenderer a second or unfair opportunity;
- b) is not to the detriment of any other tenderer; and
- c) does not lead to a higher price than the tender as submitted.

If negotiations fail to result in acceptable contract terms, the City Manager (or his delegated authority) may terminate the negotiations and cancel the tender, or invite the next ranked tenderer for negotiations. The original preferred tenderer should be informed of the reasons for termination of the negotiations. If the decision is to invite the next highest ranked tenderer for negotiations, the failed earlier negotiations may not be reopened by the CCT.

Minutes of any such negotiations shall be kept for record purposes.

The provisions of this clause will be equally applicable to any invitation to negotiate with any other tenderers.

In terms of the City's SCM Policy, tenders must be cancelled in the event that negotiations fail to achieve a market related price with any of the three highest scoring tenderers.

2.3.12 Acceptance of tender offer

Notwithstanding any other provisions contained in the tender document, the CCT reserves the right to:

2.3.12.1 Accept a tender offer(s) which does not, in the CCT's opinion, materially and/or substantially deviate from the terms, conditions, and specifications of the tender document.

2.3.12.2 Accept the whole tender or part of a tender or any item or part of any item or items from multiple manufacturers, or to accept more than one tender (in the event of a number of items being offered), and the CCT is not obliged to accept the lowest or any tender.

2.3.12.3 Accept the tender offer(s), if in the opinion of the CCT, it does not present any material risk and only if the tenderer(s):

- a) is not under restrictions, has any principals who are under restrictions, or is not currently a supplier to whom notice has been served for abuse of the supply chain management system, preventing participation in the employer's procurement,
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,
- c) has the legal capacity to enter into the contract,
- d) is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,

- e) complies with the legal requirements, if any, stated in the tender data, and is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

If an award cannot be made in terms of anything contained herein, the Employer reserves the right to consider the next ranked tenderer(s).

2.3.12.4 Not to make an award, or revoke an award already made, where the implementation of the contract may result in reputational risk or harm to the City as a result of (inter alia):

- a) reports of poor governance or unethical behaviour, or both;
- b) association with known notorious individuals and family of notorious individuals;
- c) poor performance issues, known to the City;
- d) negative media reports, including negative social media reports; and
- e) adverse assurance (e.g. due diligence) report outcomes.
- f) Circumstances where the relevant vendor has employed, or is directed by, anyone who was previously employed in the service of the state (as defined in clause 1.53 of CCT SCM Policy), where the person is or was negatively implicated in any SCM irregularity.

2.3.12.5 The CCT reserves the right to nominate a standby bidder at the time when an award is made and in the event that a contract is terminated during the execution thereof, the CCT may consider the award of the contract, or non-award, to the standby bidder in terms of the procedures included its SCM Policy.

2.3.13 Prepare contract documents

2.3.13.1 If necessary, revise documents that shall form part of the contract and that were issued by the CCT as part of the tender documents to take account of:

- a) notices issued during the tender period,
- b) inclusion of some of the returnable documents, and
- c) other revisions agreed between the CCT and the successful tenderer.

2.3.13.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.


2.3.14 Notice to successful and unsuccessful tenderers

2.3.14.1 Before accepting the tender of the successful tenderer the CCT shall notify the successful tenderer in writing of the decision of the CCT's Bid Adjudication Committee to award the tender to the successful tenderer. No rights shall accrue to the successful tenderer in terms of this notice

2.3.14.2 The CCT shall, at the same time as notifying the successful tenderer of the Bid Adjudication Committee's decision to award the tender to the successful tenderer, also give written notice to the other tenderers informing them that they have been unsuccessful.

2.3.15 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these Conditions of Tender, but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

TENDER DOCUMENT GOODS AND SERVICES		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD	
SUPPLY CHAIN MANAGEMENT			
SCM - 542	Approved by Branch Manager: 03/04/2020	Version: 9.1	Page 27 of 66

TENDER NO: 124S/2023/24

TENDER DESCRIPTION: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

CONTRACT PERIOD: THIRTY-SIX (36) MONTHS FROM DATE OF COMMENCEMENT OF CONTRACT

VOLUME 2: RETURNABLE DOCUMENTS

TENDERER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual	
TRADING AS (if different from above)	

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

VOLUME 2: RETURNABLE DOCUMENTS

(3) DETAILS OF TENDERER

1.1 Type of Entity (Please tick one box)

☐ Individual / Sole Proprietor

☐ Close Corporation

☐ Company

☐ Partnership or Joint Venture or Consortium

☐ Trust

☐ Other:

1.2 Required Details (Please provide applicable details in full):

Name of Company / Close Corporation or Partnership / Joint Venture / Consortium or Individual /Sole Proprietor	
Trading as (if different from above)	
Company / Close Corporation registration number (if applicable)	
Postal address	Postal Code _____
Physical address (Chosen domicilium citandi et executandi)	Postal Code _____
Contact details of the person duly authorised to represent the tenderer	Name: Mr/Ms _____ (Name & Surname) Telephone:(____) _____ Fax:(____) _____ Cellular Telephone: _____ E-mail address: _____
Income tax number	
VAT registration number	
SARS Tax Compliance Status PIN	
City of Cape Town Supplier Database Registration Number (See Conditions of Tender)	
National Treasury Central Supplier Database registration number (See Conditions of Tender)	

Is tenderer the accredited representative in South Africa for the Goods / Services / Works offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, enclose proof
Is tenderer a foreign based supplier for the Goods / Services / Works offered?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, answer the Questionnaire to Bidding Foreign Suppliers (below)
Questionnaire to Bidding Foreign Suppliers	a) Is the tenderer a resident of the Republic of South Africa or an entity registered in South Africa? <input type="checkbox"/> Yes <input type="checkbox"/> No
	b) Does the tenderer have a permanent establishment in the Republic of South Africa? <input type="checkbox"/> Yes <input type="checkbox"/> No
	c) Does the tenderer have any source of income in the Republic of South Africa? <input type="checkbox"/> Yes <input type="checkbox"/> No
	d) Is the tenderer liable in the Republic of South Africa for any form of taxation? <input type="checkbox"/> Yes <input type="checkbox"/> No
Other Required registration numbers	None

(4.1) FORM OF OFFER AND ACCEPTANCE

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION A: SIEMENS HIGH VOLTAGE GAS INSULATED SWITCHGEAR

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

1. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
2. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
3. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
4. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 4.1 terms and conditions stipulated in this tender document;
 - 4.2 specifications stipulated in this tender document; and
 - 4.3 at the prices as set out in the **Price Schedule**.
5. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

Print name(s):
On behalf of the tenderer (duly authorised)

Date

INITIALS OF CITY OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION A: SIEMENS HIGH VOLTAGE GAS INSULATED SWITCHGEAR ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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

The terms of the contract are contained in:

- (7) & (8): Special and General Conditions of Tender
- (5) Price schedule
- 13: Specifications

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)
(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

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

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

(4.2) FORM OF OFFER AND ACCEPTANCE

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION B: HOLEC HIGH VOLTAGE GAS INSULATED SWITCHGEAR

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

6. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
7. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
8. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
9. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 9.1 terms and conditions stipulated in this tender document;
 - 9.2 specifications stipulated in this tender document; and
 - 9.3 at the prices as set out in the **Price Schedule**.
10. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

Print name(s):
On behalf of the tenderer (duly authorised)

Date

INITIALS OF CITY OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION B: HOLECHHIGH VOLTAGE GAS IINSULATED SWITCHGEAR ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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

The terms of the contract are contained in:

- (7) & (8): Special and General Conditions of Tender
- (5) Price schedule
- 13: Specifications

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)

(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

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

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

(4.3) FORM OF OFFER AND ACCEPTANCE

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION C: ABB HIGH VOLTAGE GAS INSULATED SWITCHGEAR

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

11. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
12. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
13. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
14. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 14.1 terms and conditions stipulated in this tender document;
 - 14.2 specifications stipulated in this tender document; and
 - 14.3 at the prices as set out in the **Price Schedule**.
15. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

Print name(s):
On behalf of the tenderer (duly authorised)

Date

INITIALS OF CITY OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION C: ABB HIGH VOLTAGE GAS INSULATED SWITCHGEAR

ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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

The terms of the contract are contained in:

- (7) & (8): Special and General Conditions of Tender
- (5) Price schedule
- 13: Specifications

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)
(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

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

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

(4.4) FORM OF OFFER AND ACCEPTANCE

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION D: HITACHI HIGH VOLTAGE GAS INSULATED SWITCHGEAR

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

1. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
2. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
3. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
4. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 4.1 terms and conditions stipulated in this tender document;
 - 4.2 specifications stipulated in this tender document; and
 - 4.3 at the prices as set out in the **Price Schedule**.
5. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

Print name(s):

On behalf of the tenderer (duly authorised)

Date

INITIALS OF CITY OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION D: HITACHI HIGH VOLTAGE GAS INSULATED SWITCHGEAR ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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

The terms of the contract are contained in:

- (7) & (8): Special and General Conditions of Tender
- (5) Price schedule
- 13: Specifications

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)

(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

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

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

(4.5) FORM OF OFFER AND ACCEPTANCE

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION E: AREVA HIGH VOLTAGE GAS INSULATED SWITCHGEAR

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

6. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
7. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
8. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
9. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 9.1 terms and conditions stipulated in this tender document;
 - 9.2 specifications stipulated in this tender document; and
 - 9.3 at the prices as set out in the **Price Schedule**.
10. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

Print name(s):
On behalf of the tenderer (duly authorised)

Date

INITIALS OF CITY OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION E: AREVA HIGH VOLTAGE GAS INSULATED SWITCHGEAR ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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

The terms of the contract are contained in:

- (7) & (8): Special and General Conditions of Tender
- (5) Price schedule
- 13: Specifications

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)
(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

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

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

(4.6) FORM OF OFFER AND ACCEPTANCE

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION F: XD HIGH VOLTAGE GAS INSULATED SWITCHGEAR

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

1. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
2. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
3. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
4. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 4.1 terms and conditions stipulated in this tender document;
 - 4.2 specifications stipulated in this tender document; and
 - 4.3 at the prices as set out in the **Price Schedule**.
5. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

Print name(s):
On behalf of the tenderer (duly authorised)

Date

INITIALS OF CITY OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION F: XD HIGH VOLTAGE GAS INSULATED SWITCHGEAR

ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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

The terms of the contract are contained in:

- (7) & (8): Special and General Conditions of Tender
- (5) Price schedule
- 13: Specifications

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)
(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

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

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

(4.7) FORM OF OFFER AND ACCEPTANCE

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION G: ONLINE PARTIAL DISCHARGE TESTING OF HV GIS

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance*, the tenderer:

6. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
7. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
8. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
9. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 9.1 terms and conditions stipulated in this tender document;
 - 9.2 specifications stipulated in this tender document; and
 - 9.3 at the prices as set out in the **Price Schedule**.
10. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

Print name(s):
On behalf of the tenderer (duly authorised)

Date

INITIALS OF CITY OFFICIALS		
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FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 124S/2023/24: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

SECTION G: ONLINE PARTIAL DISCHARGE TESTING OF HV GIS

ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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

The terms of the contract are contained in:

- (7) & (8): Special and General Conditions of Tender
- (5) Price schedule
- 13: Specifications

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)
(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, become the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the Contract.

1 Subject
Details

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

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

(5) PRICE SCHEDULE

Bid specifications may not make any reference to any particular trade mark, name, patent, design, type, specific origin or producer, unless there is no other sufficiently precise or intelligible way of describing the characteristics of the work, in which case such reference must be accompanied by the words "or equivalent".

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS 'OR EQUIVALENT'

SECTION A: SIEMENS HIGH VOLTAGE GIS PRICING SCHEDULE

SECTION A: TABLE A (see pricing instruction 5.8)

Supply and delivery of maintenance, repair, upgrade and refurbishment work for High Voltage Gas insulated Switchgear. This will be performed as per manufacturer's OEM protocols and/or scope of work. It includes all management, administrative costs, labour costs, testing, commissioning, OEM approved or certified equivalent service kits, materials and sundries. Refer to specifications clause 13.11.1.

The Tenderer shall supply copies of all relevant supplier material price lists for evaluation purposes.

NOTE: No prices shall be provided in Table A12 for Paardevlei Switching Station only. Table A12 is only provided to indicate the applicable GIS Bays and the type of switchgear. The tenderer shall, however, provide prices for the all the other tables in this section.

A1.	SUBSTATION: ATHLONE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.1	BAY NO: EA01 BAY NAME: PHILIPPI 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30097109	Per Bay.		
A1.2	BAY NO: EA02 BAY NAME: APS 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997108	Per Bay.		

A1.	SUBSTATION: ATHLONE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.3	BAY NO: EA03 BAY NAME: JAN SMUTS DRIVE 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997107	Per Bay.		
A1.4	BAY NO: EA04 BAY NAME: MONTAGUE GARDENS 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997106	Per Bay.		
A1.5	BAY NO: EA05 BAY NAME: BUS COUPLER 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997105	Per Bay.		
A1.6	BAY NO: EA06 BAY NAME: APS 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997104	Per Bay.		
A1.7	BAY NO: EA07 BAY NAME: JAN SMUTS DRIVE 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997103	Per Bay.		
A1.8	BAY NO: EA08 BAY NAME: LOCH ROAD 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997102	Per Bay.		
A1.9	BAY NO: EA09 BAY NAME: PHILIPPI 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997101	Per Bay.		

A1.	SUBSTATION: ATHLONE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.10	BAY NO: EA10 BAY NAME: BOFORS 1 GIS TYPE: 8DN8 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 89/K312242807	Per Bay.		
A1.11	BAY NO: EA11 BAY NAME: LOCH ROAD 1 GIS TYPE: 8DN8 1: MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 89/K312242808	Per Bay.		
A1.12	BAY NO: EA12 BAY NAME: EPPING 2 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 17 YEAR M1 SERIAL NO.: 05/K31250498	Per Bay.		
A1.13	BAY NO: EA13 BAY NAME: MONTAGUE GARDENS 1 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 17 YEAR M1 SERIAL NO.: 05/K31250499	Per Bay.		
A1.14	BAY NO: EA14 BAY NAME: BUS SECTION GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 17 YEAR M1 SERIAL NO.: 10/K31259876	Per Bay.		
A1.15	BAY NO: EA15 BAY NAME: EPPING 1 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 17 YEAR M1 SERIAL NO.: 10/K31259877	Per Bay.		
A1.16	BAY NO: EA16 BAY NAME: BUS COUPLER 2 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 17 YEAR M1 SERIAL NO.: 10/K31259878	Per Bay.		

A1.	SUBSTATION: ATHLONE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.17	BAY NO: EA17 BAY NAME: MAITLAND 1 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 17 YEAR M1 SERIAL NO.: 10/K31259879	Per Bay.		

A2.	SUBSTATION: CONSTANTIA SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A2.1	BAY NO: FO01 BAY NAME: BISSCHOP2 SWITCHGEAR TYPE: 8DN9 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 97/K312453364	Per Bay.		
A2.2	BAY NO: FO02 BAY NAME: ROSMEAD AVE. 2 SWITCHGEAR TYPE: 8DN9 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 97/K312453365	Per Bay.		
A2.3	BAY NO: FO03 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: 8DN9 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 97/K312453366	Per Bay.		

A3.	SUBSTATION: EISLEBEN DRIVE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A3.1	BAY NO: 01 BAY NAME: MITCHELLS PLAIN 1 SWITCHGEAR TYPE: 8DV2051 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997112	Per Bay.		
A3.2	BAY NO: 03 BAY NAME: MITCHELLS PLAIN 2 SWITCHGEAR TYPE: 8DV2051 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997113	Per Bay.		

A4.	SUBSTATION: GUGULETHU SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A4.1	BAY NO: EO01A BAY NAME: MAIN STATION 3 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 13/K31265321	Per Bay.		
A4.2	BAY NO: EO01 BAY NAME: MITCHELLS PLAIN 1 GIS TYPE: 8DN8 2 (including trifurcating bushings) MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245966	Per Bay.		
A4.3	BAY NO: EO02 BAY NAME: PHILIPPI 1 GIS TYPE: 8DN8 2 (including trifurcating bushings) MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245967	Per Bay.		
A4.4	BAY NO: EO04 BAY NAME: MAIN STATION 1 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245968	Per Bay.		
A4.5	BAY NO: EO05 BAY NAME: BUS COUPLER GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245969	Per Bay.		
A4.6	BAY NO: EO06 BAY NAME: MAIN STATION 2 GIS TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245970	Per Bay.		
A4.7	BAY NO: EO08 BAY NAME: MITCHELLS PLAIN 2 GIS TYPE: 8DN8 2 (including trifurcating bushings) MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245971	Per Bay.		

A4.	SUBSTATION: GUGULETHU SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A4.8	BAY NO: EO09 BAY NAME: PHILIPPI 2 GIS TYPE: 8DN8 2 (including trifurcating bushings) MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K3124596672	Per Bay.		

A5.	SUBSTATION: MITCHELLS PLAIN SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A5.1	BAY NO: EA01 BAY NAME: GUGULETHU 2 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997094	Per Bay.		
A5.2	BAY NO: EA02 BAY NAME: PAARDEVLEI GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997095	Per Bay.		
A5.3	BAY NO: EA03 BAY NAME: EISLEBEN DRIVE 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997096	Per Bay.		
A5.4	BAY NO: EA04 BAY NAME: BUS COUPLER GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997097	Per Bay.		
A5.5	BAY NO: EA05 BAY NAME: EISLEBEN DRIVE 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997098	Per Bay.		
A5.6	BAY NO: EA06 BAY NAME: PINOTAGE GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997099	Per Bay.		

A5.	SUBSTATION: MITCHELLS PLAIN SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A5.7	BAY NO: EA07 BAY NAME: GUGULETHU 1 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997100	Per Bay.		
A5.8	BAY NO: EA08 BAY NAME: EASTRIDGE/MAIN STATION 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 82/S31240775	Per Bay.		
A5.9	BAY NO: EA09 BAY NAME: EASTRIDGE/MAIN STATION 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 82/S31240776	Per Bay.		
A5.10	BAY NO: EA10 BAY NAME: WELTEVREDEN 1 GIS TYPE: 8DN8 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 96/K31244863	Per Bay.		
A5.11	BAY NO: EA11 BAY NAME: WELTEVREDEN 2 GIS TYPE: 8DN8 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 96/K31244864	Per Bay.		

A6.	SUBSTATION: MONTAGUE GARDENS SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A6.1	BAY NO: EO05 BAY NAME: CENTURY CITY 1 SWITCHGEAR TYPE: 8DN9 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 97/K31245359	Per Bay.		
A6.2	BAY NO: EO06 BAY NAME: MILNERTON 2 SWITCHGEAR TYPE: 8DN9 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 97/K31245360	Per Bay.		
A6.3	BAY NO: EO08 BAY NAME: MILNERTON 1 SWITCHGEAR TYPE: 8DN9 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 97/K31245362	Per Bay.		
A6.4	BAY NO: EO09 BAY NAME: FORESHORE 1 SWITCHGEAR TYPE: 8DN9 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 97/K31245363	Per Bay.		
A6.5	BAY NO: 17 BAY NAME: BUS COUPLER SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 15 YEAR M1 SERIAL NO.: 09/35112187	Per Bay.		

A7.	SUBSTATION: MUIZENBERG SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A7.1	BAY NO: EO03 BAY NAME: GRASSY PARK 1 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247068	Per Bay.		
A7.2	BAY NO: EO04 BAY NAME: STEENBERG 1 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247069	Per Bay.		
A7.3	BAY NO: EO05 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247070	Per Bay.		
A7.4	BAY NO: EO06 BAY NAME: CLOVELLY 1 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247071	Per Bay.		
A7.5	BAY NO: EO07 BAY NAME: BUS COUPLER SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247072	Per Bay.		
A7.6	BAY NO: EO08 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247073	Per Bay.		
A7.7	BAY NO: EO09 BAY NAME: CLOVELLY 2 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247074	Per Bay.		

A7.	SUBSTATION: MUIZENBERG SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A7.8	BAY NO: EO10 BAY NAME: GRASSY PARK 3 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247075	Per Bay.		
A7.9	BAY NO: EO11 BAY NAME: GRASSY PARK 2 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247076	Per Bay.		
A7.10	BAY NO: EO12 BAY NAME: STEENBERG 2 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 01/K31247077	Per Bay.		

A8.	SUBSTATION: NEWLANDS SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A8.1	BAY NO: EO01 BAY NAME: LOCH ROAD 2 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245998	Per Bay.		
A8.2	BAY NO: EO02 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31245999	Per Bay.		
A8.3	BAY NO: EO03 BAY NAME: OHLSON'S/SPARE SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31246000	Per Bay.		
A8.4	BAY NO: EO04 BAY NAME: BUS COUPLER SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31247546	Per Bay.		
A8.5	BAY NO: EO05 BAY NAME: MAIN STATION 3 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31247547	Per Bay.		
A8.6	BAY NO: EO06 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31247548	Per Bay.		
A8.7	BAY NO: EO07 BAY NAME: LOCH ROAD 1 SWITCHGEAR TYPE: 8DN8 2 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 00/K31247549	Per Bay.		

A9	SUBSTATION: PHILIPPI SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A9.1	BAY NO: EA01 BAY NAME: ESKOM 1 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997129	Per Bay		
A9.2	BAY NO: EA02 BAY NAME: GUGLETHU 1 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997128	Per Bay		
A9.3	BAY NO: EA03 BAY NAME: ATHLONE 1 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997127	Per Bay		
A9.4	BAY NO: EA04 BAY NAME: NEWFIELDS 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997126	Per Bay		
A9.5	BAY NO: EA05 BAY NAME: ROSMEAD AVE 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997125	Per Bay		
A9.6	BAY NO: EA06 BAY NAME: GRASSY PARK 1 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997124	Per Bay		

A9	SUBSTATION: PHILIPPI SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A9.7	BAY NO: EA07 BAY NAME: LANSLOWNE 1 GIS TYPE: 8DN8 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 96/ K31244860	Per Bay		
A9.8	BAY NO: EA08 BAY NAME: BUS COUPLER GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997122	Per Bay		
A9.9	BAY NO: EA09 BAY NAME: ATHLONE 2 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997121	Per Bay		
A9.10	BAY NO: EA10 BAY NAME: NEWFIELDS 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997120	Per Bay		
A9.11	BAY NO: EA11 BAY NAME: ROSMEAD AVE 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997119	Per Bay		
A9.12	BAY NO: EA12 BAY NAME: GRASSYPARK 2 GIS TYPE: 8DN6 1 MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997118	Per Bay		
A9.13	BAY NO: EA13 BAY NAME: LANSLOWNE 2 GIS TYPE: 8DN8 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 96/K31244861	Per Bay		

A9	SUBSTATION: PHILIPPI SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A9.14	BAY NO: EA14 BAY NAME: SPARE GIS TYPE: 8DN8 1 MAINTENANCE TYPE: 25 YEAR M3 SERIAL NO.: 96/K31244862	Per Bay		
A9.15	BAY NO: EA15 BAY NAME: GUGULETHU 2 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997115	Per Bay		
A9.16	BAY NO: EA16 BAY NAME: ESKOM 2 GIS TYPE: 8DN6 1 (including trifurcating bushings) MAINTENANCE TYPE: 35 YEAR M2 SERIAL NO.: 78/S30997114	Per Bay		

A10	SUBSTATION: OAKDALE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A10.1	BAY NO: E01 BAY NAME: SPARE 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271972	Per Bay.		
A10.2	BAY NO: E02 BAY NAME: DOORDEKRAAL 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271973	Per Bay.		
A10.3	BAY NO: E03 BAY NAME: STIKLAND 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271974	Per Bay.		
A10.4	BAY NO: E04 BAY NAME: BOSTON 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271975	Per Bay.		
A10.5	BAY NO: E05 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271976	Per Bay.		
A10.6	BAY NO: E06 BAY NAME: BUS COUPLER SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271977	Per Bay.		
A10.7	BAY NO: E07 BAY NAME: TRIANGLE SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271978	Per Bay.		

A10	SUBSTATION: OAKDALE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A10.8	BAY NO: E08 BAY NAME: DOORDEKRAAL 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271979	Per Bay.		
A10.9	BAY NO: E09 BAY NAME: STIKLAND 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271980	Per Bay.		
A10.10	BAY NO: E10 BAY NAME: BOSTON 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271981	Per Bay.		
A10.11	BAY NO: E11 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 16/K31271982	Per Bay.		

A11	SUBSTATION: MAITLAND SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A11.1	BAY NO: E01 BAY NAME: SPARE 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265912	Per Bay		
A11.2	BAY NO: E02 BAY NAME: OBSERVATORY 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265913	Per Bay		
A11.3	BAY NO: E03 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265914	Per Bay		
A11.4	BAY NO: E04 BAY NAME: LHS BUS COUPLER SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265915	Per Bay		
A11.5	BAY NO: E05 BAY NAME: MONTAGUE GARDENS 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265916	Per Bay.		
A11.6	BAY NO: E06 BAY NAME: BROAD ROAD 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265917	Per Bay		
A11.7	BAY NO: E07 BAY NAME: BUS SECTION SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265918	Per Bay		

A11	SUBSTATION: MAITLAND SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A11.8	BAY NO: E08 BAY NAME: MONTAGUE GARDENS 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265919	Per Bay		
A11.9	BAY NO: E09 BAY NAME: OBSERVATORY 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265920	Per Bay		
A11.10	BAY NO: E10 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265921	Per Bay		
A11.11	BAY NO: E11 BAY NAME: BROAD ROAD 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265922	Per Bay		
A11.12	BAY NO: E12 BAY NAME: ATHLONE 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265923	Per Bay		
A11.13	BAY NO: E13 BAY NAME: SPARE 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265924	Per Bay		
A11.14	BAY NO: E14 BAY NAME: RHS BUS COUPLER SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: 9 YEAR M1 SERIAL NO.: 14/K31265925	Per Bay		

A12	SUBSTATION: PAARDEVLEI SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A12.1	BAY NO: E02 BAY NAME: BUS COUPLER 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282545	Per Bay	N/A	N/A
A12.2	BAY NO: E03 BAY NAME: PINOTAGE (including maintenance of the trifurcating bushings) SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282546	Per Bay	N/A	N/A
A12.3	BAY NO: E04 BAY NAME: 66 kV SWSTN 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282547	Per Bay	N/A	N/A
A12.4	BAY NO: E05 BAY NAME: HELDERBERG 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282548	Per Bay	N/A	N/A
A12.5	BAY NO: E06 BAY NAME: STEENBRAS 1 (including maintenance of the trifurcating bushings) SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282549	Per Bay.	N/A	N/A
A12.6	BAY NO: E07 BAY NAME: SPARE 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282550	Per Bay	N/A	N/A
A12.7	BAY NO: E08 BAY NAME: MITCHELLS PLAIN (including maintenance of the trifurcating bushings) SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282551	Per Bay	N/A	N/A

A12	SUBSTATION: PAARDEVLEI SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A12.8	BAY NO: E09 BAY NAME: 66kV SWSTN 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282552	Per Bay	N/A	N/A
A12.9	BAY NO: E10 BAY NAME: HELDERBERG 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282553	Per Bay	N/A	N/A
A12.10	BAY NO: E11 BAY NAME: STEENBRAS 2 (including maintenance of the trifurcating bushings) SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282554	Per Bay	N/A	N/A
A12.11	BAY NO: E12 BAY NAME: SPARE 4 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282555	Per Bay	N/A	N/A
A12.12	BAY NO: E13 BAY NAME: BUS SECTION SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282556	Per Bay	N/A	N/A
A12.13	BAY NO: E14 BAY NAME: 132kV SWSTN 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282557	Per Bay	N/A	N/A
A12.14	BAY NO: E15 BAY NAME: SOMERSET WEST 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282558	Per Bay	N/A	N/A

A12	SUBSTATION: PAARDEVLEI SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A12.15	BAY NO: E16 BAY NAME: STRAND 1 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282559	Per Bay	N/A	N/A
A12.16	BAY NO: E17 BAY NAME: 132kV SWST 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282560	Per Bay	N/A	N/A
A12.17	BAY NO: E18 BAY NAME: SOMERSET WEST 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282561	Per Bay	N/A	N/A
A12.18	BAY NO: E19 BAY NAME: STRAND 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282562	Per Bay	N/A	N/A
A12.19	BAY NO: E20 BAY NAME: BUS COUPLER 2 SWITCHGEAR TYPE: 8DN8 5 MAINTENANCE TYPE: N/A SERIAL NO.: 20/K31282563	Per Bay	N/A	N/A

A13	SUBSTATION: STEENBRAS SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION			
	(SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A13.1	BAY NO: EA01 BAY NAME: GENERATOR 4 SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 (Switchgear only) SERIAL NO.: 78/S30997081	Per Bay		
A13.2	BAY NO: EA01 BAY NAME: GENERATOR 4 NEW CB SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 10 YEAR M2 (CB only) SERIAL NO.: 78/S30997081	Per Bay		
A13.3	BAY NO: EA02 BAY NAME: GENERATOR 3 SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 (Switchgear only) SERIAL NO.: 78/S30997082	Per Bay		
A13.4	BAY NO: EA02 BAY NAME: GENERATOR 3 NEW CB SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 10 YEAR M2 (CB only) SERIAL NO.: 78/S30997082	Per Bay		
A13.5	BAY NO: EA03 BAY NAME: MITCHELLS PLAIN 2 SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 78/S30997083	Per Bay.		
A13.6	BAY NO: EA04 BAY NAME: STATION TRANSFORMER 2 SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 78/S30997084	Per Bay		

A13	SUBSTATION: STEENBRAS SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION			
	(SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A13.7	BAY NO: EA05 BAY NAME: BUS COUPLER SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 78/S30997085	Per Bay		
A13.8	BAY NO: EA06 BAY NAME: STATION TRANSFORMER SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 78/S30997086	Per Bay		
A13.9	BAY NO: EA07 BAY NAME: MITCHELLS PLAIN 1 SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 78/S30997087	Per Bay		
A13.10	BAY NO: EA08 BAY NAME: GENERATOR 2 SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 (Switchgear only) SERIAL NO.: 78/S30997088	Per Bay		
A13.11	BAY NO: EA08 BAY NAME: GENERATOR 2 NEW CB SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 10 YEAR M2 (CB only) SERIAL NO.: 78/S30997088	Per Bay		
A13.12	BAY NO: EA09 BAY NAME: GENERATOR 1 SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 30 YEAR M1 (Switchgear only) SERIAL NO.: 78/S30997089	Per Bay		

A13	SUBSTATION: STEENBRAS SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A13.13	BAY NO: EA09 BAY NAME: GENERATOR 1 NEW CB SWITCHGEAR TYPE: 8DN6 1 MAINTENANCE TYPE: 10 YEAR M2 (CB only) SERIAL NO.: 78/S30997089	Per Bay		

A14	SUBSTATION: NEWFIELDS SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF HYBRID GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A14.1	BAY NO: 10 BAY NAME: PHILIPPI 1 SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 15 YEAR M1 SERIAL NO.: 11/35118170	Per Bay.		
A14.2	BAY NO: 11 BAY NAME: VANGUARD 1 SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 15 YEAR M1 SERIAL NO.: 11/35118169	Per Bay.		
A14.3	BAY NO: 12 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 15 YEAR M1 SERIAL NO.: 11/35118168	Per Bay.		
A14.4	BAY NO: 13 BAY NAME: BUS SECTION SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 15 YEAR M1 SERIAL NO.: 11/35118165	Per Bay.		
A14.5	BAY NO:14 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 10 YEAR M1 SERIAL NO.: 11/35118167	Per Bay.		
A14.6	BAY NO:15 BAY NAME: VANGUARD 2 SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 15 YEAR M1 SERIAL NO.: 11/35118166	Per Bay.		
A14.7	BAY NO: 16 BAY NAME: PHILLIPPI 2 SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 15 YEAR M1 SERIAL NO.: 11/35118171	Per Bay.		

A15	SUBSTATION: ATLANTIS SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPE OF HYBRID GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A15.1	BAY NO: 10 BAY NAME: BUS COUPLER SWITCHGEAR TYPE: 3AP1 DTC MAINTENANCE TYPE: 10 YEAR M1 SERIAL NO.: 16/35141673	Per Bay.		

SECTION A: TABLE B – Labour, Transport, Material, Plant, Training and Other rates

The labour rates in this schedule are for work outside the scope of maintenance specified for the specific type of GIS and will include work such as repairs, any OEM recommended upgrades and refurbishment. The transport, material, plant and other rates are applicable to all work including normal maintenance work.

Note: The items in this table marked **N/A** are not required to be priced.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B1.	Technical Support (Labour) – Normal Time (see pricing instruction 5.11)		
B1.1	GIS Specialist normal working hours (8 hrs).	Per hour	R
B1.2	Service Technicians normal working hours (8 hrs).	Per hour	R
B1.3	Semi-skilled Worker normal working hours (8 hrs).	Per hour	R
B1.4	GIS Specialist remote support normal working hours (see 5.21 of the pricing instructions)	Per hour	R
B2.	Technical Support (Labour) – Overtime (see pricing instructions 5.11 and 5.12)		
B2.1	GIS Specialist (Overtime)		
B2.1.1	Weekdays	Per hour	R
B2.1.2	Saturdays	Per hour	R
B2.1.3	Sundays and Public Holidays	Per hour	R
B2.2	Service Technician (Overtime)		
B2.2.1	Weekdays	Per hour	R
B2.2.2	Saturdays	Per hour	R
B2.2.3	Sundays and Public Holidays	Per hour	R
B2.3	Semi-skilled worker / Technician Assistant (Overtime)		
B2.3.1	Weekdays	Per hour	R
B2.3.2	Saturdays	Per hour	R
B2.3.3	Sundays and Public Holidays	Per hour	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B2.4	GIS Specialist remote support (Overtime) (see 5.21 of the pricing instructions)		
B2.4.1	Weekdays	Per hour	R
B2.4.2	Saturdays	Per hour	R
B2.4.3	Sundays and Public Holidays	Per hour	R
B3.	Travelling and Transport (see pricing instruction 5.13)		
B3.1	Sedan	Per km	R
B3.2	LDV/Panel Van	Per km	R
B3.3	25 meter platform truck hire (see pricing instruction 5.22)	Per day	R
B3.4	25 meter platform truck transport (see pricing instruction 5.22)	Per km	R
B4.	Material (adhoc supplied)		
B4.1	SF6 Gas (see pricing instruction 5.19)	Per kg	R
B4.2	Rental per SF6 gas cylinder (see pricing instruction 5.19)	Per month	R
B5.	Plant (see pricing instruction 5.19)		
B5.1	SF6 Gas handling Plant (see 13.10.29 of the specification)	Per day	R
B5.2	Transport of plant to and from Cape Town (if required)	Per Request	R
B5.3	Compressor Unit for SF6 measuring devices (see pricing instruction 5.20)	Per day	R
B6.	Training (See pricing instruction 5.18 and specification clause 13.15 TRAINING		
B6.1	First line maintenance training course (5 people)	Per course	R
B7.	Other		
B7.1	Accommodation (see pricing instruction 5.14)	Per day	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B7.2	<u>Health and Safety file:</u> Costs of compliance with Safety Specification all sites.	One for all sites	R
B7.3	Site establishment / De-establishment (see pricing instructions 5.14, 5.15 and 5.16)		
B7.3.1	International resource deployment for planned maintenance work	Per site	R
B7.3.2	Local resource deployment for planned maintenance work	Per site	R
B7.3.3	International resource deployment for unplanned work	Per site	R
B7.3.4	Local resource deployment for unplanned work	Per site	R
B7.4	Out of Town Allowance (see pricing instructions 5.17)		
B7.4.1	International deployed resources	Per person / day	R
B7.4.2	Local deployed resources	Per person / day	R
B8.	Material (refer to serial numbers for the equipment in applicable Tables A1 - A15)		
B8.1	Type 8DN6 Spares		
B8.1.1	Circuit breaker drive mechanism (for 3 poles)	Per unit	R
B8.1.2	Disconnecter drive mechanism (motor drive)	Per unit	R
B8.1.3	Earthing switch drive mechanism (motor drive)	Per unit	R
B8.1.4	High speed earthing switch drive mechanism (motor spring drive)	Per unit	R
B8.1.5	8DN6 Hydraulic Block EVQ:41202540001	Per unit	R
B8.1.6	Density monitor	Per unit	R
B8.1.7	Trip coil (normal)	Per unit	R
B8.1.8	Close coil (normal)	Per unit	R
B8.1.9	Trip coil (fast)	Per unit	R
B8.1.10	Hydraulic pump	Per unit	R
B8.1.11	Pressure switch B1	Per unit	R
B8.1.12	Pressure switch B2	Per unit	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B8.1.13	Safety valve	Per unit	R
B8.1.14	Set of usit-rings for SF ₆	Per unit	R
B8.1.15	Set of usit-rings for hydraulic	Per unit	R
B8.1.16	Gasket kit hydraulic drive	Per unit	R
B8.2	Type 8DN8 1 Spares		
B8.2.1	Circuit breaker drive mechanism (for 3 poles)	Per unit	R
B8.2.2	Disconnecter drive mechanism (motor drive)	Per unit	R
B8.2.3	Earthing switch drive mechanism (motor drive)	Per unit	R
B8.2.4	High speed earthing switch drive mechanism (motor spring drive)	Per unit	R
B8.2.5	Density monitor	Per unit	R
B8.2.6	Trip coil (normal)	Per unit	R
B8.2.7	Close coil (normal)	Per unit	R
B8.2.8	Trip coil (fast)	Per unit	R
B8.2.9	Hydraulic pump	Per unit	R
B8.2.10	Pressure switch B1)	Per unit	R
B8.2.11	Pressure switch B2	Per unit	R
B8.2.12	Safety valve	Per unit	R
B8.2.13	Set of usit-rings for SF ₆	Per unit	R
B8.2.14	Set of usit-rings for hydraulic	Per unit	R
B8.2.15	Gasket kit hydraulic drive	Per unit	R
B8.3	Type 8DN8 2 Spares		
B8.3.1	Circuit breaker drive mechanism (set for 3 poles, with Circuit Breaker drive cubical)	Per unit	R
B8.3.2	Cross module drive mechanism (disconnecter function)	Per unit	R
B8.3.3	Cross module drive mechanism (disconnecter and earthing switch function, 3-position)	Per unit	R
B8.3.4	Earthing switch drive mechanism (motor drive)	Per unit	R
B8.3.5	High speed earthing switch drive mechanism (motor drive)	Per unit	R
B8.3.6	Density monitor	Per unit	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B8.3.7	Trip coil (normal)	Per unit	R
B8.3.8	Close coil (normal)	Per unit	R
B8.3.9	Trip coil (fast)	Per unit	R
B8.3.10	Motor for spring drive (with pinion) for three-pole drive	Per unit	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B8.4	Type 8DN8 5 Spares		
B8.4.1	Circuit breaker drive mechanism (set for 3 poles, with Circuit Breaker drive cubical)	Per unit	R
B8.4.2	Cross module drive mechanism (disconnecter function)	Per unit	R
B8.4.3	Cross module drive mechanism (disconnecter and earthing switch function, 3-position)	Per unit	R
B8.4.4	Earthing switch drive mechanism (motor drive)	Per unit	R
B8.4.5	High speed earthing switch drive mechanism (motor drive)	Per unit	R
B8.4.6	Density monitor	Per unit	R
B8.4.7	Trip coil (normal)	Per unit	R
B8.4.8	Close coil (normal)	Per unit	R
B8.4.9	Trip coil (fast)	Per unit	R
B8.4.10	Motor for spring drive (with pinion) for three-pole drive	Per unit	R
B8.5	Type 8DN9 1 Spares		
B8.5.1	Circuit breaker drive mechanism (common drive)	Per unit	R
B8.5.2	Disconnecter drive mechanism	Per unit	R
B8.5.3	Earthing switch drive mechanism	Per unit	R
B8.5.4	High speed earthing switch drive mechanism (motor drive)	Per unit	R
B8.5.5	Density monitor	Per unit	R
B8.5.6	Trip coil (normal)	Per unit	R
B8.5.7	Close coil (normal)	Per unit	R
B8.5.8	Trip coil (fast)	Per unit	R
B8.5.9	Hydraulic pump	Per unit	R
B8.5.10	Pressure switch B1	Per unit	R
B8.5.11	Pressure switch B2	Per unit	R
B8.5.12	Safety valve	Per unit	R
B8.5.13	Set of usit-rings for SF ₆	Per unit	R
B8.5.14	Set of usit-rings for hydraulic	Per unit	R
B8.5.18	Gasket kit hydraulic drive	Per unit	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B8.6	Type 3AP1 DTC		
B8.6.1	Spring drive mechanism complete (1 pole, with control cabinet, fully wired)	Per unit	R
B8.6.2	Bushings (1 pole)	Per unit	R
B8.6.3	DS/ES three position drive mechanism complete (1 pole, fully wired)	Per unit	R
B8.6.4	Density monitor	Per unit	R
B8.6.5	Trip coil (Replacement Set)	Per unit	R
B8.6.6	Close coil (Replacement Set)	Per unit	R
B8.6.7	Time relay	Per unit	R
B8.6.8	Motor (Replacement Set)	Per unit	R

SECTION B: HOLEC HIGH VOLTAGE GIS PRICING SCHEDULE
SECTION B - TABLE A (see pricing instruction 5.8)

Supply and delivery of maintenance, repair, upgrade and refurbishment work for High Voltage Gas insulated Switchgear. This will be performed as per manufacturer's OEM protocols and/or scope of work. It includes all management, administrative costs, labour costs, testing, commissioning, OEM approved or certified equivalent service kits, materials and sundries. Refer to specifications 13.11.2.

The Tenderers shall supply copies of all relevant supplier material price lists including part numbers and quantities for evaluation purposes.

A1.	SUBSTATION: WOODSTOCK SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.1	BAY NO: 10 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-14	Per Bay		
A1.2	BAY NO: 11 BAY NAME: PERTH ROAD 2 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-13	Per Bay		
A1.3	BAY NO: 12 BAY NAME: TAMBOERSKLOOF 2 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-12	Per Bay.		
A1.4	BAY NO: 13 BAY NAME: CONSTITUTION 2 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-11	Per Bay.		

A1.	SUBSTATION: WOODSTOCK SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.5	BAY NO: 14 BAY NAME: MONTAGUE GARDENS 2 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-10	Per Bay.		
A1.6	BAY NO: 15 BAY NAME: BUS COUPLER SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-9	Per Bay.		
A1.7	BAY NO: 16 BAY NAME: MONTAGUE GARDENS 1 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-8	Per Bay.		
A1.8	BAY NO: 17 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-7	Per Bay.		
A1.9	BAY NO: 18 BAY NAME: SPARE 1 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-6	Per Bay.		
A1.10	BAY NO: 19 BAY NAME: TAMBOERSKLOOF 1 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-5	Per Bay.		
A1.11	BAY NO: 20 BAY NAME: CONSTITUTION 1 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-4	Per Bay.		

A1.	SUBSTATION: WOODSTOCK SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.12	BAY NO: 21 BAYNAME: BUS SECTION SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-3	Per Bay.		
A1.13	BAY NO: 22 BAY NAME: FORESHORE 1 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-1	Per Bay.		
A1.14	BAY NO: 23 BAY NAME: FORESHORE 2 SWITCHGEAR TYPE: TRISEP-P6 MAINTENANCE TYPE: 30 YEAR M1 SERIAL NO.: 34000401-2	Per Bay.		

SECTION B: TABLE B – Labour, Transport, Material, Plant, Training and Other rates

The labour rates in this schedule are for work outside the scope of maintenance specified for the specific type of GIS and will include work such as repairs, any OEM recommended upgrades and refurbishment. The transport, material, plant and other rates are applicable to all work including normal maintenance work.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B1.	Technical Support (Labour) – Normal Time (see pricing instruction 5.11)		
B1.1	GIS Specialist normal working hours (8 hrs).	Per hour	R
B1.2	Service Technicians normal working hours (8 hrs).	Per hour	R
B1.3	Semi-skilled Worker normal working hours (8 hrs).	Per hour	R
B1.4	GIS Specialist remote support normal working hours. (see 5.21 of the pricing instructions)	Per hour	R
B2.	Technical Support (Labour) – Overtime (see pricing instructions 5.11 and 5.12)		
B2.1	GIS Specialist (Overtime)		
B2.1.1	Weekdays	Per hour	R
B2.1.2	Saturdays	Per hour	R
B2.1.3	Sundays and Public Holidays	Per hour	R
B2.2	Service Technician (Overtime)		
B2.2.1	Weekdays	Per hour	R
B2.2.2	Saturdays	Per hour	R
B2.2.3	Sundays and Public Holidays	Per hour	R
B2.3	Semi-skilled worker / Technician Assistant (Overtime)		
B2.3.1	Weekdays	Per hour	R
B2.3.2	Saturdays	Per hour	R
B2.3.3	Sundays and Public Holidays	Per hour	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B2.4	GIS Specialist remote support (Overtime) (see 5.21 of the pricing instructions)		
B2.4.1	Weekdays	Per hour	R
B2.4.2	Saturdays	Per hour	R
B2.4.3	Sundays and Public Holidays	Per hour	R
B3.	Transport (see pricing instruction 5.13)		
B3.1	Sedan	Per km	R
B3.2	LDV/Panel Van	Per km	R
B4.	Material (adhoc supplied)		
B4.1	SF ₆ Gas (see pricing instruction 5.19)	Per kg	R
B4.2	Rental per SF ₆ gas cylinder (see pricing instruction 5.19)	Per month	R
B5.	Plant (see pricing instruction 5.19)		
B5.1	SF ₆ Gas handling Plant (see 13.10.29 of the specification)	Per day	R
B5.2	Transport of plant to and from Cape Town (if required)	Per Request	R
B5.3	Compressor Unit for SF ₆ measuring devices (see pricing instruction 5.20)	Per day	R
B6.	Training (See pricing instruction 5.18 and specification clause 13.15 TRAINING		
B6.1	First line maintenance training course (5 people)	Per course	R
B7.	Other		
B7.1	Accommodation (see pricing instruction 5.14)	Per day	R
B7.2	<u>Health and Safety file:</u> Costs of compliance with Safety Specification all sites.	One for all sites	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B7.3	Site establishment / De-establishment (see pricing instructions 5.14, 5.15 and 5.16)		
B7.3.1	International resource deployment for planned maintenance work	Per site	R
B7.3.2	Local resource deployment for planned maintenance work	Per site	R
B7.3.3	International resource deployment for unplanned work	Per site	R
B7.3.4	Local resource deployment for unplanned work	Per site	R
B7.4	Out of Town Allowance (see pricing instructions 5.17)		
B7.4.1	International deployed resources	Per person / day	R
B7.4.2	Local deployed resources	Per person / day	R
B8	Material and Repairs (for materials refer to serial numbers for the equipment in Table A1)		
B8.1.1	Circuit breaker drive mechanism (for 3 poles)	Per unit	R
B8.1.2	Disconnecter drive mechanism (motor drive)	Per unit	R
B8.1.3	Earthing switch drive mechanism (motor drive)	Per unit	R
B8.1.4	Hydraulic Drive Box	Per unit	R
B8.1.5	Hydraulic Drive Block	Per unit	R
B8.1.6	Hydraulic Accumulator	Per unit	R
B8.1.7	Isolator Drive Motor	Per unit	R
B8.1.8	Earth Switch Drive motor	Per unit	R
B8.1.9	Isolator Main Contact	Per unit	R
B8.1.10	Isolator Auxiliary Contact	Per unit	R
B8.1.11	Earth Switch Main Contact	Per unit	R
B8.1.12	Earth Switch Auxiliary Contact	Per unit	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B8.1.13	Density monitor	Per unit	R
B8.1.14	Trip coil (normal)	Per unit	R
B8.1.15	Close coil (normal)	Per unit	R
B8.1.16	Gasket kit hydraulic drive	Per unit	R
B8.1.17	Supply of Circuit Breaker Withdrawable Part and material for installation.	Per unit	R
B8.1.18	Supply of Replacement Gearbox Earthing Switch and material for installation	Per unit	R

SECTION C: ABB HIGH VOLTAGE GIS PRICING SCHEDULE**SECTION C: TABLE A (see pricing instruction 5.8)**

Supply and delivery of repair, upgrade and refurbishment work for High Voltage Gas insulated Switchgear. This will be performed as per manufacturer's OEM protocols and/or scope of work. It includes all management, administrative costs, labour costs, testing, commissioning, OEM approved or certified equivalent service kits, materials and sundries. Refer to specifications clause 13.11.3.

The Tenderer shall supply copies of all relevant supplier material price lists for evaluation purposes.

NOTE: No prices shall be provided in Table A1 for Grassy Park Switching Station. Table A1 is only provided to indicate the applicable GIS Bays and the type of switchgear. The tenderer shall, however, provide prices only for Table B in this section.

ITEM	SUBSTATION: GRASSY PARK SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A2.1	BAY NO: K02 BAY NAME: PHILIPPI 1 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/60543	Per Bay.	N/A	N/A
A2.2	BAY NO: K03 BAY NAME: MUIZENBERG 3 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50825	Per Bay.	N/A	N/A
A2.3	BAY NO: K04 BAY NAME: PELICAN PARK 1 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50826	Per Bay.	N/A	N/A
A2.4	BAY NO: K05 BAY NAME: ROSMEAD AVE 1 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50827	Per Bay.	N/A	N/A

A1	SUBSTATION: GRASSY PARK SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A2.5	BAY NO: K06 BAY NAME: MUIZENBERG 1 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50828	Per Bay.	N/A	N/A
A2.6	BAY NO: K07 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50829	Per Bay.	N/A	N/A
A2.7	BAY NO: K08 BAY NAME: BUSCOUPLER 1 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/70184	Per Bay.	N/A	N/A
A2.8	BAY NO: K09 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50830	Per Bay.	N/A	N/A
A2.9	BAY NO: K10 BAY NAME: MUIZENBERG 2 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50831	Per Bay.	N/A	N/A
A2.10	BAY NO: K11 BAY NAME: ROSMEAD AVE 2 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50832	Per Bay.	N/A	N/A

A1	SUBSTATION: GRASSY PARK SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A2.11	BAY NO: K12 BAY NAME: PELICAN PARK 2 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50833	Per Bay.	N/A	N/A
A2.12	BAY NO: K13 BAY NAME: SPARE 2 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/50834	Per Bay.	N/A	N/A
A2.13	BAY NO: K14 BAY NAME: PHILIPPI 2 SWITCHGEAR TYPE: ABB CALOR EMAG ENK 72.5 kV MAINTENANCE TYPE: N/A SERIAL NO.: 95/60544	Per Bay.	N/A	N/A

SECTION C: TABLE B – Labour, Transport, Material, Plant, Training and Other rates

The labour rates in this schedule are for work outside the scope of maintenance specified for the specific type of GIS and will include work such as repairs, any OEM recommended upgrades and refurbishment. The transport, material, plant and other rates are applicable to all work including normal maintenance work.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B1.	Technical Support (Labour) – Normal Time (see pricing instruction 5.11)		
B1.1	GIS Specialist normal working hours (8 hrs).	Per hour	R
B1.2	Service Technicians normal working hours (8 hrs).	Per hour	R
B1.3	Semi-skilled Worker normal working hours (8 hrs).	Per hour	R
B1.4	GIS Specialist remote support normal working hours. (see 5.21 of the pricing instructions)	Per hour	R
B2.	Technical Support (Labour) – Overtime (see pricing instructions 5.11 and 5.12)		
B2.1	GIS Specialist (Overtime)		
B2.1.1	Weekdays	Per hour	R
B2.1.2	Saturdays	Per hour	R
B2.1.3	Sundays and Public Holidays	Per hour	R
B2.2	Service Technician (Overtime)		
B2.2.1	Weekdays	Per hour	R
B2.2.2	Saturdays	Per hour	R
B2.2.3	Sundays and Public Holidays	Per hour	R
B2.3	Semi-skilled worker / Technician Assistant (Overtime)		
B2.3.1	Weekdays	Per hour	R
B2.3.2	Saturdays	Per hour	R
B2.3.3	Sundays and Public Holidays	Per hour	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B2.4	GIS Specialist remote support (Overtime) (see 5.21 of the pricing instructions)		
B2.4.1	Weekdays	Per hour	R
B2.4.2	Saturdays	Per hour	R
B2.4.3	Sundays and Public Holidays	Per hour	R
B3.	Transport (see pricing instruction 5.13)		
B3.1	Sedan	Per km	R
B3.2	LDV/Panel Van	Per km	R
B4.	Material (adhoc supplied)		
B4.1	SF ₆ Gas (see pricing instruction 5.19)	Per kg	R
B4.2	Rental per SF ₆ gas cylinder (see pricing instruction 5.19)	Per month	R
B5.	Plant (see pricing instruction 5.19)		
B5.1	SF ₆ Gas handling Plant (see 13.10.29 of the specification)	Per day	R
B5.2	Transport of plant to and from Cape Town (if required)	Per Request	R
B5.3	Compressor Unit for SF ₆ measuring devices (see pricing instruction 5.20)	Per day	R
B6.	Training (See pricing instruction 5.18 and specification clause 13.15 TRAINING		
B6.1	First line maintenance training course (5 people)	Per course	R
B7.	Other		
B7.1	Accommodation (see pricing instruction 5.14)	Per day	R
B7.2	<u>Health and Safety file:</u> Costs of compliance with Safety Specification all sites.	One for all sites	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B7.3	Site establishment / De-establishment (see pricing instructions 5.14, 5.15 and 5.16)		
B7.3.1	International resource deployment for planned maintenance work	Per site	R
B7.3.2	Local resource deployment for planned maintenance work	Per site	R
B7.3.3	International resource deployment for unplanned work	Per site	R
B7.3.4	Local resource deployment for unplanned work	Per site	R
B7.4	Out of Town Allowance (see pricing instructions 5.17)		
B7.4.1	<u>International deployed resources</u>	Per person / day	R
B7.4.2	<u>Local deployed resources</u>	Per person / day	R
B8	Material: Type ABB ENK 1 Spares (refer to serial numbers for the equipment in Table A1)		
B8.1.	Circuit breaker drive mechanism (for 3 poles)	Per unit	R
B8.2	Disconnecter drive mechanism	Per unit	R
B8.3	Earthing switch drive mechanism	Per unit	R
B8.4	Function Drive Circuit Breaker Winding Motor	Per unit	R
B8.5	Disconnecter Motor	Per unit	R
B8.6	Density monitor	Per unit	R
B8.7	Trip coil (normal)	Per unit	R
B8.8	Close coil (normal)	Per unit	R
B8.9	Trip coil (fast)	Per unit	R

SECTION D: HITACHI HIGH VOLTAGE GIS PRICING SCHEDULE**SECTION D: TABLE A (see pricing instruction 5.8)**

Supply and delivery of repair, upgrade and refurbishment work for High Voltage Gas insulated Switchgear. This will be performed as per manufacturer's OEM protocols and/or scope of work. It includes all management, administrative costs, labour costs, testing, commissioning, OEM approved or certified equivalent service kits, materials and sundries. Refer to specifications clause 13.11.4.

The Tenderer shall supply copies of all relevant supplier material price lists for evaluation purposes.

NOTE: No prices shall be provided in Table A1 for Epping Switching Station. Table A1 is only provided to indicate the applicable GIS Bays and the type of switchgear. The tenderer shall, however, provide prices only for Table B in this section.

A1.	SUBSTATION: EPPING SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.1	BAY NO: EA02 BAY NAME: ATHLONE 1 SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: N/A SERIAL NO.: 238120623	Per Bay.	N/A	N/A
A1.2	BAY NO: EA03 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: N/A SERIAL NO.: 238120635	Per Bay.	N/A	N/A
A1.3	BAY NO: EA04 BAY NAME: BONTEHEUWEL 1 SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: N/A SERIAL NO.: 238120647	Per Bay.	N/A	N/A
A1.4	BAY NO: EA05 BAY NAME: BUSCOUPER SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: N/A SERIAL NO.: 238120656	Per Bay.	N/A	N/A

A1.	SUBSTATION: EPPING SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9).			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.5	BAY NO: EA06 BAY NAME: BONTEHEUWEL 2 SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: INSPECTION SERIAL NO.: 238120671	Per Bay.	N/A	N/A
A1.6	BAY NO: EA07 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: N/A SERIAL NO.: 238120683	Per Bay.	N/A	N/A
A1.7	BAY NO: EA08 BAY NAME: ATHLONE 2 SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: N/A SERIAL NO.: 238120695	Per Bay.	N/A	N/A
A1.8	BAY NO: EA09 BAY NAME: MAIN STATIONS 3 SWITCHGEAR TYPE: ABB ELK 04-145 kV MAINTENANCE TYPE: N/A SERIAL NO.: 238120707	Per Bay.	N/A	N/A

SECTION D: TABLE B – Labour, Transport, Material, Plant, Training and Other rates

The labour rates in this schedule are for work outside the scope of maintenance specified for the specific type of GIS and will include work such as repairs, any OEM recommended upgrades and refurbishment. The transport, material, plant and other rates are applicable to all work including normal maintenance work.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B1.	Technical Support (Labour) – Normal Time (see pricing instruction 5.11)		
B1.1	GIS Specialist normal working hours (8 hrs).	Per hour	R
B1.2	Service Technicians normal working hours (8 hrs).	Per hour	R
B1.3	Semi-skilled Worker normal working hours (8 hrs).	Per hour	R
B1.4	GIS Specialist remote support normal working hours. (see 5.21 of the pricing instructions)	Per hour	R
B2.	Technical Support (Labour) – Overtime (see pricing instructions 5.11 and 5.12)		
B2.1	GIS Specialist (Overtime)		
B2.1.1	Weekdays	Per hour	R
B2.1.2	Saturdays	Per hour	R
B2.1.3	Sundays and Public Holidays	Per hour	R
B2.2	Service Technician (Overtime)		
B2.2.1	Weekdays	Per hour	R
B2.2.2	Saturdays	Per hour	R
B2.2.3	Sundays and Public Holidays	Per hour	R
B2.3	Semi-skilled worker / Technician Assistant (Overtime)		
B2.3.1	Weekdays	Per hour	R
B2.3.2	Saturdays	Per hour	R
B2.3.3	Sundays and Public Holidays	Per hour	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B2.4	GIS Specialist remote support (Overtime) (see 5.21 of the pricing instructions)		
B2.4.1	Weekdays	Per hour	R
B2.4.2	Saturdays	Per hour	R
B2.4.3	Sundays and Public Holidays	Per hour	R
B3.	Transport (see pricing instruction 5.13)		
B3.1	Sedan	Per km	R
B3.2	LDV/Panel Van	Per km	R
B4.	Material (adhoc supplied)		
B4.1	SF ₆ Gas (see pricing instruction 5.19)	Per kg	R
B4.2	Rental per SF ₆ gas cylinder (see pricing instruction 5.19)	Per month	R
B5.	Plant (see pricing instruction 5.19)		
B5.1	SF ₆ Gas handling Plant (see 13.10.29 of the specification)	Per day	R
B5.2	Transport of plant to and from Cape Town (if required)	Per Request	R
B5.3	Compressor Unit for SF ₆ measuring devices (see pricing instruction 5.20)	Per day	R
B6.	Training (See pricing instruction 5.18 and specification clause 13.15 TRAINING		
B6.1	First line maintenance training course (5 people)	Per course	R
B7.	Other		
B7.1	Accommodation (see pricing instruction 5.14)	Per day	R
B7.2	<u>Health and Safety file:</u> Costs of compliance with Safety Specification all sites.	One for all sites	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B7.3	Site establishment / De-establishment (see pricing instructions 5.14, 5.15 and 5.16)		
B7.3.1	International resource deployment for planned maintenance work	Per site	R
B7.3.2	Local resource deployment for planned maintenance work	Per site	R
B7.3.3	International resource deployment for unplanned work	Per site	R
B7.3.4	Local resource deployment for unplanned work	Per site	R
B7.4	Out of Town Allowance (see pricing instructions 5.17)		
B7.4.1	<u>International deployed resources</u>	Per person / day	R
B7.4.2	<u>Local deployed resources</u>	Per person / day	R
B8	Material: Type Hitachi 145 kV GIS ELK-4 Spares (refer to serial numbers for the equipment in Table A1)		
B8.1	Circuit breaker drive mechanism (for 3 poles)	Per unit	R
B8.2	Disconnecter drive mechanism	Per unit	R
B8.3	Earthing switch drive mechanism	Per unit	R
B8.4	High speed earthing switch drive mechanism	Per unit	R
B8.5	Circuit Breaker Hydraulic pump	Per unit	R
B8.6	Circuit Breaker Pump Motor	Per unit	R
B8.7	High Speed Earth Switch Motor	Per unit	R
B8.8	Disconnecter Motor	Per unit	R
B8.9	Density monitor	Per unit	R
B8.10	Trip coil (normal)	Per unit	R
B8.11	Close coil (normal)	Per unit	R
B8.12	Trip coil (fast)	Per unit	R

SECTION E: AREVA HIGH VOLTAGE GIS PRICING SCHEDULE**SECTION E: TABLE A (see pricing instruction 5.8)**

Supply and delivery of maintenance, repair, upgrade and refurbishment work for High Voltage Gas insulated Switchgear. This will be performed as per manufacturer's OEM protocols and/or scope of work. It includes all management, administrative costs, labour costs, testing, commissioning, OEM approved or certified equivalent service kits, materials and sundries. Refer to specifications 13.11.5.

The Tenderers shall supply copies of all relevant supplier material price lists including part numbers and quantities for evaluation purposes.

A1.	SUBSTATION: FORESHORE SWITCHING STATION			
	CARRY OUT M3 MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.1	BAY NO: E01 BAY NAME: CBD 1 (SPARE 1) SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/701	Per Bay		
A1.2	BAY NO: E02 BAY NAME: MOUILLE POINT 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/702	Per Bay		
A1.3	BAY NO: E03 BAY NAME: BUSCOUPLER 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/703	Per Bay		
A1.4	BAY NO: E04 BAY NAME: ROGGEBAAI 33kV 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/704	Per Bay		
A1.5	BAY NO: E05 BAY NAME: CITY 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/705	Per Bay		

A1.	SUBSTATION: FORESHORE SWITCHING STATION			
	CARRY OUT M3 MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.6	BAY NO: E06 BAY NAME: WOODSTOCK 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/706	Per Bay		
A1.7	BAY NO: E07 BAY NAME: MAIN STATION 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/707	Per Bay		
A1.8	BAY NO: E08 BAY NAME: TAFELBAAI 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/708	Per Bay		
A1.9	BAY NO: E09 BAY NAME: ROGGEBAAI 33kV 2 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/709	Per Bay		
A1.10	BAY NO: E10 BAY NAME: BUS SECTION SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/710	Per Bay		
A1.11	BAY NO: E11 BAY NAME: ROGGEBAAI MS 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/711	Per Bay		
A1.12	BAY NO: E12 BAYNAME: MONTAGUE GARDENS 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-1005/712	Per Bay		

A1.	SUBSTATION: FORESHORE SWITCHING STATION			
	CARRY OUT M3 MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.13	BAY NO: E13 BAY NAME: CITY 2 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/701	Per Bay		
A1.14	BAY NO: E14 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/702	Per Bay		
A1.15	BAY NO: E15 BAY NAME: ROGGEBAAI 33kV 3 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/703	Per Bay		
A1.16	BAY NO: E16 BAY NAME: WOODSTOCK 2 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/704	Per Bay		
A1.17	BAY NO: E17 BAY NAME: ROGGEBAAI MS 2 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/705	Per Bay		
A1.18	BAY NO: E18 BAY NAME: SPARE 1 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/706	Per Bay		
A1.19.	BAY NO: E19 BAY NAME: CITY 3 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/707	Per Bay		

A1.	SUBSTATION: FORESHORE SWITCHING STATION			
	CARRY OUT M3 MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.20	BAY NO: E20 BAY NAME: MAIN STATION 3 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/708	Per Bay		
A1.21	BAY NO: E21 BAY NAME: BUS COUPLER 2 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/709	Per Bay		
A1.22	BAY NO: E22 BAY NAME: MOUILLE POINT 2 SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/710	Per Bay		
A1.23	BAY NO: E23 BAY NAME: CBD 2 (SPARE 2) SWITCHGEAR TYPE: AREVA F35 -145 kV MAINTENANCE TYPE: 20 YEAR M3 SERIAL NO.: 2008/33552-2005/711	Per Bay.		

SECTION E: TABLE B – Labour, Transport, Material, Plant, Training and Other rates

The labour rates in this schedule are for work outside the scope of maintenance specified for the specific type of GIS and will include work such as repairs, any OEM recommended upgrades and refurbishment. The transport, material, plant and other rates are applicable to all work including normal maintenance work.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B1.	Technical Support (Labour) – Normal Time (see pricing instruction 5.11)		
B1.1	GIS Specialist normal working hours (8 hrs).	Per hour	R
B1.2	Service Technicians normal working hours (8 hrs).	Per hour	R
B1.3	Semi-skilled Worker normal working hours (8 hrs).	Per hour	R
B1.4	GIS Specialist remote support normal working hours. (see 5.21 of the pricing instructions)	Per hour	R
B2.	Technical Support (Labour) – Overtime (see pricing instructions 5.11 and 5.12)		
B2.1	GIS Specialist (Overtime)		
B2.1.1	Weekdays	Per hour	R
B2.1.2	Saturdays	Per hour	R
B2.1.3	Sundays and Public Holidays	Per hour	R
B2.2	Service Technician (Overtime)		
B2.2.1	Weekdays	Per hour	R
B2.2.2	Saturdays	Per hour	R
B2.2.3	Sundays and Public Holidays	Per hour	R
B2.3	Semi-skilled worker / Technician Assistant (Overtime)		
B2.3.1	Weekdays	Per hour	R
B2.3.2	Saturdays	Per hour	R
B2.3.3	Sundays and Public Holidays	Per hour	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B2.4	GIS Specialist remote support (Overtime) (see 5.21 of the pricing instructions)		
B2.4.1	Weekdays	Per hour	R
B2.4.2	Saturdays	Per hour	R
B2.4.3	Sundays and Public Holidays	Per hour	R
B3.	Transport (see pricing instruction 5.13)		
B3.1	Sedan	Per km	R
B3.2	LDV/Panel Van	Per km	R
B4.	Material (adhoc supplied)		
B4.1	SF ₆ Gas (see pricing instruction 5.19)	Per kg	R
B4.2	Rental per SF ₆ gas cylinder (see pricing instruction 5.19)	Per month	R
B5.	Plant (see pricing instruction 5.19)		
B5.1	SF ₆ Gas handling Plant (see 13.10.29 of the specification)	Per day	R
B5.2	Transport of plant to and from Cape Town (if required)	Per Request	R
B5.3	Compressor Unit for SF ₆ measuring devices (see pricing instruction 5.20)	Per day	R
B6.	Training (See pricing instruction 5.18 and specification clause 13.15 TRAINING		
B6.1	First line maintenance training course (5 people)	Per course	R
B7.	Other		
B7.1	Accommodation (see pricing instruction 5.14)	Per day	R
B7.2	<u>Health and Safety file:</u> Costs of compliance with Safety Specification all sites.	One for all sites	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B7.3	Site establishment / De-establishment (see pricing instructions 5.14, 5.15 and 5.16)		
B7.3.1	International resource deployment for planned maintenance work	Per site	R
B7.3.2	Local resource deployment for planned maintenance work	Per site	R
B7.3.3	International resource deployment for unplanned work	Per site	R
B7.3.4	Local resource deployment for unplanned work	Per site	R
B7.4	Out of Town Allowance (see pricing instructions 5.17)		
B7.4.1	<u>International deployed resources</u>	Per person / day	R
B7.4.2	<u>Local deployed resources</u>	Per person / day	R
B8	Materials: Areva F35 -145 kV Spares (refer to serial numbers for the equipment in Table A1)		
B8.1	Circuit breaker drive mechanism (for 3 poles)	Per unit	R
B8.2	Disconnecter drive mechanism (motor drive)	Per unit	R
B8.3	Earthing switch drive mechanism (motor drive)	Per unit	R
B8.4	High speed earthing switch drive mechanism	Per unit	R
B8.5	Fast Earthing Switch MF Motor	Per unit	R
B8.6	Disconnecter/Earth Switch ME1-3 Motor	Per unit	R
B8.7	Density monitor	Per unit	R
B8.8	Trip coil (normal)	Per unit	R
B8.9	Close coil (normal)	Per unit	R
B8.10	Trip coil (fast)	Per unit	R

SECTION F: XD HIGH VOLTAGE GIS PRICING SCHEDULE**SECTION F: TABLE A (see pricing instruction 5.8)**

Supply and delivery of repair, upgrade and refurbishment work for High Voltage Gas insulated Switchgear. This will be performed as per manufacturer's OEM protocols and/or scope of work. It includes all management, administrative costs, labour costs, testing, commissioning, OEM approved or certified equivalent service kits, materials and sundries. Refer to specifications 13.11.6.

The Tenderers shall supply copies of all relevant supplier material price lists including part numbers and quantities for evaluation purposes.

NOTE:

- No prices shall be provided in Table A1 for Morgen Gronde Switching Station and Table A2 for Triangle Switching Station. Table A1 and A2 are only provided to indicate the applicable GIS Bays and the type of switchgear. The tenderer shall, however, provide prices only for Table B in this section.
- Triangle Switching Station is planned to be commissioned in 2024 and the serial no's for the equipment are not available as yet but the equipment is the same as that for Morgen Gronde Switching Station

A1.	SUBSTATION: MORGEN GRONDE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.1	BAY NO: E01 BAY NAME: BUSCOUPLER 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.2	BAY NO: E02 BAY NAME: STIKLAND 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.3	BAY NO: E03 BAY NAME: MAIN SUBSTATION 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.4	BAY NO: E04 BAY NAME: TRIANGLE 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A

A1.	SUBSTATION: MORGEN GRONDE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.5	BAY NO: E05 BAY NAME: HAASENDAL 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.6	BAY NO: E06 BAY NAME: STIKLAND 3 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: SERIAL NO.: N/A	Per Bay	N/A	N/A
A1.7	BAY NO: E07 BAY NAME: TERACO 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.8	BAY NO: E08 BAY NAME: AMAZON 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.9	BAY NO: E09 BAY NAME: OAKDALE 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.10	BAY NO: E10 BAY NAME: VANTAGE 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.11	BAY NO: E11 BAY NAME: BUS SECTION SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.12	BAY NO: E12 BAYNAME: STIKLAND 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.13	BAY NO: E13 BAY NAME: TRIANGLE 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A

A1.	SUBSTATION: MORGEN GRONDE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A1.14	BAY NO: E14 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.15	BAY NO: E15 BAY NAME: AMAZON 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.16	BAY NO: E16 BAY NAME: HAASENDAL 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.17	BAY NO: E17 BAY NAME: VANTAGE 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.18	BAY NO: E18 BAY NAME: TERACO 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.19.	BAY NO: E19 BAY NAME: OAKDALE 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A1.20	BAY NO: E20 BAY NAME: BUSCOUPLER 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A

A2.	SUBSTATION: TRIANGLE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A2.1	BAY NO: E01 BAY NAME: SPARE 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.2	BAY NO: E02 BAY NAME: BELLVILLE CENTRAL 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.3	BAY NO: E03 BAY NAME: TYGERBERG HOSPITAL 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.4	BAY NO: E04 BAY NAME: MORGEN GRONDE 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.5	BAY NO: E05 BAY NAME: SACKS CIRCLE 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.6	BAY NO: E06 BAY NAME: MAIN SUBSTATION 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.7	BAY NO: E07 BAY NAME: BELLVILLE SOUTH 1 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.8	BAY NO: E08 BAY NAME: BUSCOUPLER SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.9	BAY NO: E09 BAY NAME: SPARE 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A

A2.	SUBSTATION: TRIANGLE SWITCHING STATION			
	CARRY OUT MAINTENANCE SERVICE AS PER THE OEM SPECIFICATIONS FOR EACH BAY AS STIPULATED IN THE SPECIFICATION FOR THE TYPES OF GIS FOR THIS SWITCHING STATION (SEE SPECIFICATIONS FOR DETAILS AND PRICING INSTRUCTION 5.9)			
ITEM	DESCRIPTION	UNIT	MATERIAL PRICE (Excl VAT) (R)	LABOUR PRICE (Excl VAT) (R)
			(a)	(b)
A2.10	BAY NO: E10 BAY NAME: BELLVILLE CENTRAL 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.11	BAY NO: E11 BAY NAME: TYGERBERG HOSPITAL 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.12	BAY NO: E12 BAYNAME: MORGEN GRONDE 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.13	BAY NO: E13 BAY NAME: SACKS CIRCLE 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.14	BAY NO: E14 BAY NAME: MAIN STATION 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A
A2.15	BAY NO: E15 BAY NAME: BELLVILLE 2 SWITCHGEAR TYPE: XD Z7F-145/40kA MAINTENANCE TYPE: N/A	Per Bay	N/A	N/A

SECTION F: TABLE B – Labour, Transport, Material, Plant, Training and Other rates

The labour rates in this schedule are for work outside the scope of maintenance specified for the specific type of GIS and will include work such as repairs, any OEM recommended upgrades and refurbishment. The transport, material, plant and other rates are applicable to all work including normal maintenance work.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B1.	Technical Support (Labour) – Normal Time (see pricing instruction 5.11)		
B1.1	GIS Specialist normal working hours (8 hrs).	Per hour	R
B1.2	Service Technicians normal working hours (8 hrs).	Per hour	R
B1.3	Semi-skilled Worker normal working hours (8 hrs).	Per hour	R
B1.4	GIS Specialist remote support normal working hours. (see 5.21 of the pricing instructions)	Per hour	R
B2.	Technical Support (Labour) – Overtime (see pricing instructions 5.11 and 5.12)		
B2.1	GIS Specialist (Overtime)		
B2.1.1	Weekdays	Per hour	R
B2.1.2	Saturdays	Per hour	R
B2.1.3	Sundays and Public Holidays	Per hour	R
B2.2	Service Technician (Overtime)		
B2.2.1	Weekdays	Per hour	R
B2.2.2	Saturdays	Per hour	R
B2.2.3	Sundays and Public Holidays	Per hour	R
B2.3	Semi-skilled worker / Technician Assistant (Overtime)		
B2.3.1	Weekdays	Per hour	R
B2.3.2	Saturdays	Per hour	R
B2.3.3	Sundays and Public Holidays	Per hour	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B2.4	GIS Specialist remote support (Overtime) (see 5.21 of the pricing instructions)		
B2.4.1	Weekdays	Per hour	R
B2.4.2	Saturdays	Per hour	R
B2.4.3	Sundays and Public Holidays	Per hour	R
B3.	Transport (see pricing instruction 5.13)		
B3.1	Sedan	Per km	R
B3.2	LDV/Panel Van	Per km	R
B4.	Material (adhoc supplied)		
B4.1	SF ₆ Gas (see pricing instruction 5.19)	Per kg	R
B4.2	Rental per SF ₆ gas cylinder (see pricing instruction 5.19)	Per month	R
B5.	Plant (see pricing instruction 5.19)		
B5.1	SF ₆ Gas handling Plant (see 13.10.29 of the specification)	Per day	R
B5.2	Transport of plant to and from Cape Town (if required)	Per Request	R
B5.3	Compressor Unit for SF ₆ measuring devices (see pricing instruction 5.20)	Per day	R
B6.	Training (See pricing instruction 5.18 and specification clause 13.15 TRAINING		
B6.1	First line maintenance training course (5 people)	Per course	R
B7.	Other		
B7.1	Accommodation (see pricing instruction 5.14)	Per day	R
B7.2	<u>Health and Safety file:</u> Costs of compliance with Safety Specification all sites.	One for all sites	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B7.3	Site establishment / De-establishment (see pricing instructions 5.14, 5.15 and 5.16)		
B7.3.1	International resource deployment for planned maintenance work	Per site	R
B7.3.2	Local resource deployment for planned maintenance work	Per site	R
B7.3.3	International resource deployment for unplanned work	Per site	R
B7.3.4	Local resource deployment for unplanned work	Per site	R
B7.4	Out of Town Allowance (see pricing instructions 5.17)		
B7.4.1	<u>International deployed resources</u>	Per person / day	R
B7.4.2	<u>Local deployed resources</u>	Per person / day	R
B8	Materials: XD Z7F-145/40kA GIS - Part Code / Description of Spares		
B8.1	5KA.551.120 / CB Assembly of moving arc contact	Per unit	R
B8.2	8KA.553.012 / CB Static arc contact	Per unit	R
B8.3	5KA. 743. 1008 / CB Insulation rod	Per unit	R
B8.4	5KA.731.141 / BB DS/LINE DS Insulation rod	Per unit	R
B8.5	8KA.551.451 / BB DS/LINE DS Moving contact	Per unit	R
B8.6	8KA.574.048 / BB DS Contact socket	Per unit	R
B8.7	8KA.559.023 / LINE DS Contact socket	Per unit	R
B8.8	8KA552.057 / BB DS/LINE DS Contact finger	Per unit	R
B8.9	8KA.510.337.2 / ES Moving contact	Per unit	R
B8.10	8KA.510.337.1 / ES Moving contact	Per unit	R
B8.11	5KA.574.069 / ES/FES Insulation flange	Per unit	R
B8.12	5KA.510.224.3 / FES Moving contact	Per unit	R
B8.13	5KA.510.224.4 / FES Moving contact	Per unit	R
B8.14	8KA.551.448 / LINE DS Contact	Per unit	R
B8.15	5KA.520.436.1 / CB Close Coil	Per unit	R
B8.16	5KA.520.447 / CB Trip Coil	Per unit	R
B8.17	W0-000037 / CB Motor SD-13CA-1 300W AC/DC220V	Per unit	R
B8.18	W0-000007 / FES Motor HDZ-22408CTH	Per unit	R

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ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B8.19	5KA.647.072.1 / DS/ES Interlock Magnetic 220V	Per unit	R
B8.20	W0-000035 / BB DES/LINE DES Motor HDZ-21806CTH	Per unit	R
B8.21	Density Monitor	Per unit	R

SECTION G: ONLINE PARTIAL DISCHARGE TESTING OF HV GIS PRICING SCHEDULE**SECTION G: TABLE A (see pricing instruction 5.8)**

Providing of online partial discharge testing on High Voltage Gas insulated Switchgear in accordance with 13.17 of this specification and includes all management, administrative and labour costs. The details of the make, type and bays for each station are detailed in Table 2 referenced in clause 13.7.1.13 as well as Tables A in the pricing schedules of sections A – F.

A1	Online Partial Discharge Testing (as per clause 13.17 of the specification and pricing instruction 5.23)		
ITEM	SWITCHING STATION	UNIT	PRICE
A1.1	Athlone	Per Switching Station	R
A1.2	Constantia	Per Switching Station	R
A1.3	Eisleben Drive	Per Switching Station	R
A1.4	Gugulethu	Per Switching Station	R
A1.5	Mitchells Plain	Per Switching Station	R
A1.6	Montague Gardens	Per Switching Station	R
A1.7	Muizenberg	Per Switching Station	R
A1.8	Newlands	Per Switching Station	R
A1.9	Philippi	Per Switching Station	R
A1.10	Oakdale	Per Switching Station	R
A1.11	Maitland	Per Switching Station	R
A1.12	Paardevelei	Per Switching Station	R
A1.13	Steenbras	Per Switching Station	R
A1.14	Newfields	Per Switching Station	R
A1.15	Atlantis	Per Switching Station	R
A1.16	Woodstock	Per Switching Station	R

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A1.17	Grassy Park	Per Switching Station	R
A1.18	Epping	Per Switching Station	R
A1.19	Foreshore	Per Switching Station	R
A1.20	Morgen Gronde	Per Switching Station	R
A1.21	Triangle Switching	Per Switching Station	R

SECTION G: TABLE B – Labour, Transport and other rates

The labour rates in this schedule are for work outside the scope of the work specified in Table A. The transport, and all other rates in this table are applicable to all work including the items listed in Table A.

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B1.	Technical Support (Labour) – Normal Time (see pricing instruction 5.11)		
B1.1	Senior Test Technician normal working hours (8 hrs).	Per hour	R
B1.2	Test Technicians normal working hours (8 hrs).	Per hour	R
1.3	Specialist	Per hour	R
B2.	Technical Support (Labour) – Overtime (see pricing instructions 5.11 and 5.12)		
B2.1	Senior Test Technician (Overtime)		
B2.1.1	Weekdays	Per hour	R
B2.1.2	Saturdays	Per hour	R
B2.1.3	Sundays and Public Holidays	Per hour	R
B2.2	Test Technician (Overtime)		
B2.2.1	Weekdays	Per hour	R
B2.2.2	Saturdays	Per hour	R
B2.2.3	Sundays and Public Holidays	Per hour	R
B2.3	Specialist (Overtime)		
B2.3.1	Weekdays	Per hour	R
B2.3.2	Saturdays	Per hour	R
B2.3.3	Sundays and Public Holidays	Per hour	R
B3.	Transport (see pricing instruction 5.13)		
B3.1	Sedan	Per km	R
B3.2	LDV/Panel Van	Per km	R

ITEM	DESCRIPTION	UNIT	UNIT PRICE (EXCL. VAT)
B4.	Other		
B4.1	Accommodation (see pricing instruction 5.14)	Per day	R
B4.2	<u>Health and Safety file:</u> Costs of compliance with Safety Specification all sites.	One for all sites	R
B5.	Site establishment / De-establishment (see pricing instructions 5.14 and 5.15)		
B5.1	International resource deployment for planned work	Per site	R
B5.2	Local resource deployment for planned work	Per site	R
B6.	Out of Town Allowance (see pricing instructions 5.17)		
B6.1	<u>International deployed resources</u>	Per person / day	R
B6.2	<u>Local deployed resources</u>	Per person / day	R

Pricing Instructions:

- 5.1 State the rates and prices in Rand unless instructed otherwise in the tender conditions.
- 5.2 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT)), and other levies payable by the successful tenderer being those applicable 14 days before the closing time stated in the General Tender Information.
- 5.3 All prices tendered and required for the execution of the tenderer's obligations in terms of the Contract, shall cover the cost of all general risks, liabilities and obligations set forth or implied in the Contract as well as overhead charges and profit (in the event that the tender is successful). All prices tendered will be final and binding.
- 5.4 All prices shall be tendered in accordance with the units specified in this schedule.
- 5.5 Where a value is given in the Quantity column, a Rate and Price (the product of the Quantity and Rate) is required to be inserted in the relevant columns.
- 5.6 The successful tenderer is required to perform all tasks listed against each item. The tenderer must therefore tender prices/rates on all items as per the section in the Price Schedule. **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.**
- 5.7 Provide fixed rates and prices for the duration of the contract that are not subject to adjustment except as otherwise provided for in clause 17 of the Conditions of Contract and as amplified in the Special Conditions of Contract.
- 5.8 Tenderers are to comply with the following requirements with respect to pricing for items for Sections A - G:
- Tenderers bidding for Section A, must provide prices for both Table A and Table B of the pricing schedule for Section A.
 - Tenderers bidding for Section B, must provide prices for both Table A and Table B of the pricing schedule for Section B.
 - Tenderers bidding for Section C, must provide prices only for Table B of the pricing schedule for Section C.
 - Tenderers bidding for Section D, must provide prices only for Table B of the pricing schedule for Section D.
 - Tenderers bidding for Section E, must provide prices only for Table B of the pricing schedule for Section E.
 - Tenderers bidding for Section F, must provide prices for both Table A and Table B of the pricing schedule for Section F.
 - Tenderers bidding for Section G, must provide prices for both Table A and Table B of the pricing schedule for Section G.
- 5.9 The prices for all items in tables A for Sections A, B and E in the pricing schedule shall exclude the supply of SF₆ gas and the provision of SF₆ gas handling plant.
- 5.10 For items not listed in this schedule, the following will apply:
- 5.10.1 Spares and components: the service provider shall supply various OEM approved or certified equivalent spares or components that are compatible with the equipment at a cost price plus 10% mark-up upon request and approval by CCT. Cost price shall be inclusive of freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the CCT delivery address in Cape Town.
- 5.10.2 Specialised services: the service provider shall supply specialised services (including service and repairs of SF₆ gas handling plant) at a cost price plus 10%. Cost price shall inclusive all costs incurred to deliver

the specialised services but excludes profit.

- 5.10.3 Prices must be reasonable and market related and supported with the quotations for ordered parts or services.
- 5.11 The normal working hours are any 8-hour period up to 16:00 during the week. No planned work will be done out of normal working hours without prior approval of the City of Cape Town representative. Overtime (as agreed by the City of Cape Town Representative) – After hours and Saturday time rates shall be the rates stated above multiplied by a factor of 1.5 (excluding items mentioned in 5.12 below). The Sunday and Public Holiday time rates shall be the rates stated above multiplied by a factor of 2.0. These factors are in terms of the Basic Conditions of Employment Act. If a priced item includes labour at the normal working hour rate, only the difference between the normal time and applicable overtime rate will be added to the priced item.
- 5.12 The Service provider shall request in writing approval prior to working overtime. Approval will be granted at the discretion of CCT. The Service provider shall, at request of CCT, indicate the benefit of the overtime to the Department. Emergency repairs will be exempted from the above prior approval process. Overtime shall be in accordance with the Basic Conditions of the Employment Act.
- 5.13 The service provider shall be responsible for providing accurate records of transport used, kilometers travelled and hours of use of plant as part of a claim/invoice. The service provider will reasonably be required to provide any additional information deemed necessary by CCT in order to process claims/invoices.
- 5.14 Should the deployment of resources require flights and accommodation, flights shall be economy class for both international and domestic travel and accommodation shall be guest houses, bed and breakfast or 3-star hotel accommodation which shall be in an area as close as possible to the respective sites. Site address details are provided in clause 13.6 of the specifications.
- 5.15 Site Establishment Planned Maintenance Work
- (a) For local resource deployment the price shall include:
- Resource costs (including daily allowance) for travel time to and from Cape Town
 - Cost of transport to and from Cape Town
 - Accommodation required during travel and first night accommodation
 - Project Manager's cost
 - Preliminaries & General costs (detailed breakdown should be provided and attached to the pricing schedule)
- (b) For International deployment the price shall include:
- Travel costs (Air ticket or rental car)
 - Resource cost (including the daily allowance) for preparation and travel time to site and back
 - First night accommodation and travel costs to and from the airport
 - Visa cost
 - Preparation of customer handing over report
 - Preliminaries & General costs (not included under 5.15(a)) (a detailed breakdown should be provided and attached to the pricing schedule)
- 5.16 Site Establishment for Unplanned Work
- (a) For local resource deployment the price shall include:
- Resource costs (including daily allowance) for travel time to and from Cape Town
 - Cost of transport to and from Cape Town
 - Accommodation required during travel and first night accommodation
 - Preliminaries & General costs (detailed breakdown should be provided and attached to the pricing schedule)
- (b) For International deployment the price shall include:
- Travel costs (Air ticket or rental car)
 - Resource cost (including the daily allowance) for preparation and travel time to site and back
 - First night accommodation and travel costs to and from the airport
 - Visa cost
 - Preparation of customer handing over report
 - Preliminaries & General costs (not included under 5.16(a)) (a detailed breakdown should be

provided and attached to the pricing schedule)

- 5.17 The out of town allowance shall include all food costs, excluding accommodation
- 5.18 The rates for training courses shall include all expenses, training instructor cost, disbursements and costs (e.g. transport, accommodation etc.). Venues for the training shall be provided by CCT.
- 5.19 The rates for SF₆ gas and SF₆ Gas Handling Plant as per clauses 13.10.29 and 13.10.30 of this specification. The gas shall be supplied in cylinders of with approximately 50kg SF₆ Gas. CCT reserves the right to provide the SF₆ gas handling plant, should this be deemed to serve in its best interest provided that such plant is returned to CCT fully serviced on completion of the works. CCT also reserves the right to supply SF₆ gas should this be deemed to serve in its best interest.
- 5.20 The daily rate for the supply of the compressor unit for SF₆ measuring devices shall not include any transport costs as it shall be supplied with the tools needed and already included in the site establishment costs.
- 5.21 GIS specialist remote support is required for any work that can be carried remotely with the support of CCT staff and/or tenderer's local service technicians. The rate shall include all costs that will enable the GIS specialist to provide the required support.
- 5.22 The rate per day for the platform truck shall include the costs of the driver and operator. CCT reserves the right to provide the platform truck should this be deemed to serve in its best interest.
- 5.23 The prices for partial discharge testing shall include the use of partial discharge test equipment, the required non-invasive sensors, labour to perform the tests, the transport costs of all the equipment, the analysis of the results and compilation of a test report that needs to be submitted to CCT. Transport will be based on the actual kilometers travelled and rates provided for in Table B.

INITIALS OF CITY OFFICIALS		
1	2	3

(6) SUPPORTING SCHEDULES**Schedule 1: Certificate of Authority for Partnerships/ Joint Ventures/ Consortiums**

This schedule is to be completed if the tender is submitted by a partnership/joint venture/ consortium.

1. We, the undersigned, are submitting this tender offer as a partnership/ joint venture/ consortium and hereby authorize Mr/Ms _____, of the authorised entity _____, acting in the capacity of Lead Partner, to sign all documents in connection with the tender offer and any contract resulting from it on the partnership/joint venture/ consortium's behalf.
2. By signing this schedule the partners to the partnership/joint venture/ consortium:
 - 2.1 warrant that the tender submitted is in accordance with the main business and objectives of the partnership/joint venture/ consortium;
 - 2.2 agree that the CCT shall make all payments in terms of this Contract into the following bank account of the Lead Partner:
 Account Holder: _____
 Financial Institution: _____
 Branch Code: _____
 Account No.: _____
 - 2.3 agree that in the event that there is a change in the partnership/ joint venture/ consortium and/or should a dispute arise between the partnership/joint venture/ consortium partners, that the CCT shall continue to make any/all payments due and payable in terms of the Contract into the aforesaid bank account until such time as the CCT is presented with a Court Order or an original agreement (signed by each and every partner of the partnership/joint venture/ consortium) notifying the CCT of the details of the new bank account into which it is required to make payment.
 - 2.4 agree that they shall be jointly and severally liable to the CCT for the due and proper fulfilment by the successful tenderer/supplier of its obligations in terms of the Contract as well as any damages suffered by the CCT as a result of breach by the successful tenderer/supplier. The partnership/joint venture/ consortium partners hereby renounce the benefits of excussion and division.

SIGNED BY THE PARTNERS OF THE PARTNERSHIP/ JOINT VENTURE/ CONSORTIUM		
NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature..... Name..... Designation.....
		Signature..... Name..... Designation.....
		Signature..... Name..... Designation.....
		Signature..... Name..... Designation.....

Note: A copy of the Joint Venture Agreement shall be appended to List of other documents attached by tenderer schedule.

Schedule 2: Declaration for Procurement above R10 million

If the value of the transaction is expected to exceed R10 million (VAT included) the tenderer shall complete the following questionnaire, attach the necessary documents and sign this schedule:

1. Are you by law required to prepare annual financial statements for auditing? (Please mark with X)

YES		NO	
-----	--	----	--

1.1 If YES, submit audited annual financial statements:

- (i) for the past three years, or
(ii) since the date of establishment of the tenderer (if established during the past three years)

By attaching such audited financial statements to **List of other documents attached by tenderer** schedule.

2. Do you have any outstanding undisputed commitments for municipal services towards the CCT or other municipality in respect of which payment is overdue for more than 30 (thirty) days? (Please mark with X)

YES		NO	
-----	--	----	--

- 2.1 If NO, this serves to certify that the tenderer has no undisputed commitments for municipal services towards any municipality for more than three (3) (three) months in respect of which payment is overdue for more than 30 (thirty) days.

2.2 If YES, provide particulars:

3. Has any contract been awarded to you by an organ of state during the past five (5) years? (Please mark with X)

YES		NO	
-----	--	----	--

3.1 If YES, insert particulars in the table below including particulars of any material non-compliance or dispute concerning the execution of such contract. Alternatively attach the particulars to **List of other documents attached by tenderer** schedule in the same format as the table below:

Organ of State	Contract Description	Contract Period	Non-compliance/dispute (if any)

4. Will any portion of the goods or services be sourced from outside the Republic, and if so, what portion and whether any portion of payment from the CCT is expected to be transferred out of the Republic? (Please mark with X)

YES		NO	
-----	--	----	--

- 4.1 If YES, furnish particulars below

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

 Signature
 Print name:
 On behalf of the tenderer (duly authorised)

 Date

Schedule 3: Preference Points Claim Form In Terms Of The Preferential Procurement Regulations 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 **To be completed by the organ of state**

a) The applicable preference point system for this tender is the 90/10 preference point system.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

The following definitions shall apply to this schedule:

- (a) “tender” means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) “price” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) “rand value” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) “tender for income-generating contracts” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and

(e) “the Act” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 90/10 PREFERENCE POINT SYSTEMS

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

90/10

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)
Gender are women (ownership)	3	
Race are black persons (ownership)	3	
Disability are disabled persons (ownership)	1	
Promotion of Micro and Small Enterprises	3	

DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
 - ☐ One-person business/sole propriety
 - ☐ Close corporation
 - ☐ Public Company
 - ☐ Personal Liability Company
 - ☐ (Pty) Limited
 - ☐ Non-Profit Company
 - ☐ State Owned Company
- [Tick applicable box]

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not

exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and

- (e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:

.....

.....

.....

For official use.

SIGNATURE OF CITY OFFICIALS AT
TENDER OPENING

1.

2.

3.

Schedule 4: Declaration of Interest – State Employees (MBD 4 amended)

1. No bid will be accepted from:
 - 1.1 persons in the service of the state¹, or
 - 1.2 if the person is not a natural person, of which any director, manager or principal shareholder or stakeholder is in the service of the state, or
 - 1.3 from persons, or entities of which any director, manager or principal shareholder or stakeholder, has been in the service of the City of Cape Town during the twelve months after the City employee has left the employ of the City, or
 - 1.4 from an entity who has employed a former City employee who was at a level of T14 or higher at the time of leaving the City's employment and involved in any of the City's bid committees for the bid submitted, if:
 - 1.4.1 the City employee left the City's employment voluntarily, during a period of 12 months after the City employee has left the employ of the City;
 - 1.4.2 the City employee left the City's employment whilst facing disciplinary action by the City, during a period of 24 months after the City employee has left the employ of the City, or any other period prescribed by applicable legislative provisions, after having left the City's employ.
 - 1.4.3
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the tenderer or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
 - 3.1 Full Name of tenderer or his or her representative:.....
 - 3.2 Identity Number:.....
 - 3.3 Position occupied in the Company (director, trustee, shareholder²).....
 - 3.4 Company or Close Corporation Registration Number:.....
 - 3.5 Tax Reference Number.....
 - 3.6 VAT Registration Number:.....
 - 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
 - 3.8 Are you presently in the service of the state? **YES / NO**
 - 3.8.1 If yes, furnish particulars
 - 3.9 Have you been in the service of the state for the past twelve months? **YES / NO**
 - 3.9.1 If yes, furnish particulars
 - 3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**
 - 3.10.1 If yes, furnish particulars
 - 3.11 Are you, aware of any relationship (family, friend, other) between any other tenderer and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**
 - 3.11.1 If yes, furnish particulars.....
 - 3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars

3.13 Are any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.13.1 If yes, furnish particulars

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract? **YES / NO**

3.14.1 If yes, furnish particulars

3.15 Have you, or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company been in the service of the City of Cape Town in the past twelve months? **YES / NO**

3.15.1 If yes, furnish particulars

3.16 Do you have any employees who was in the service of the City of Cape Town at a level of T14 or higher at the time they left the employ of the City, and who was involved in any of the City's bid committees for this bid? **YES / NO**

3.16.1 If yes, furnish particulars

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

Full Name	Identity Number	State Employee Number

If the above table does not sufficient to provide the details of all directors / trustees / shareholders, please append full details to the tender submission.

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

'MSCM Regulations: "in the service of the state" means to be –

- (a) a member of –**
 - (i) any municipal council;**
 - (ii) any provincial legislature; or**
 - (iii) the national Assembly or the national Council of provinces;**
- (b) a member of the board of directors of any municipal entity;**
- (c) an official of any municipality or municipal entity;**
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);**
- (e) an executive member of the accounting authority of any national or provincial public entity; or**
- (f) an employee of Parliament or a provincial legislature.**

² Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

Schedule 5: Conflict of Interest Declaration

1. The tenderer shall declare whether it has any conflict of interest in the transaction for which the tender is submitted. (Please mark with X)

YES		NO	
-----	--	----	--

- 1.1 If yes, the tenderer is required to set out the particulars in the table below:

2. The tenderer shall declare whether it has directly or through a representative or intermediary promised, offered or granted:

2.1 any inducement or reward to the CCT for or in connection with the award of this contract; or

2.2 any reward, gift, favour or hospitality to any official or any other role player involved in the implementation of the supply chain management policy. (Please mark with X)

YES		NO	
-----	--	----	--

If yes, the tenderer is required to set out the particulars in the table below:

Should the tenderer be aware of any corrupt or fraudulent transactions relating to the procurement process of the City of Cape Town, please contact the following:

the City's anti-corruption hotline at 0800 32 31 30 (toll free)

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 6: Declaration of Tenderer's Past Supply Chain Management Practices (MBD 8)

Where the entity tendering is a partnership/joint venture/consortium, each party to the partnership/joint venture/consortium must sign a declaration in terms of the Municipal Finance Management Act, Act 56 Of 2003, and attach it to this schedule.

- 1 The tender offer of any tenderer may be rejected if that tenderer or any of its directors/members have:
- a) abused the municipality's / municipal entity's supply chain management system or committed any fraudulent conduct in relation to such system;
 - b) been convicted for fraud or corruption during the past five years;
 - c) willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
 - d) been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers.
- 2 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
2.1	<p>Is the tenderer or any of its directors/members listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>
2.1.1	If so, furnish particulars:		
2.2	<p>Is the tenderer or any of its directors/members listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers?</p> <p>The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>
2.2.1	If so, furnish particulars:		
2.3	<p>Was the tenderer or any of its directors/members convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?</p>	<p>Yes</p> <input type="checkbox"/>	<p>No</p> <input type="checkbox"/>

2.3.1	If so, furnish particulars:		
Item	Question	Yes	No
2.4	Does the tenderer or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.4.1	If so, furnish particulars:		
2.5	Was any contract between the tenderer and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.5.1	If so, furnish particulars:		

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

 Signature
 Print name:
 On behalf of the tenderer (duly authorised)

 Date

Schedule 7: Authorisation for the Deduction of Outstanding Amounts Owed to the City of Cape Town

To: THE CITY MANAGER, CITY OF CAPE TOWN

From: _____
(Name of tenderer)

RE: AUTHORISATION FOR THE DEDUCTION OF OUTSTANDING AMOUNTS OWED TO THE CITY OF CAPE TOWN

The tenderer:

- a) hereby acknowledges that according to SCM Regulation 38(1)(d)(i) the City Manager may reject the tender of the tenderer if any municipal rates and taxes or municipal service charges owed by the tenderer (or any of its directors/members/partners) to the CCT, or to any other municipality or municipal entity, are in arrears for more than 3 (three) months; and
- b) therefore hereby agrees and authorises the CCT to deduct the full amount outstanding by the Tenderer or any of its directors/members/partners from any payment due to the tenderer; and
- c) confirms the information as set out in the tables below for the purpose of giving effect to b) above;
- d) The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

Physical Business address(es) of the tenderer	Municipal Account number(s)

If there is not enough space for all the names, please attach the information to **List of other documents attached by tenderer** schedule in the same format:

Name of Director / Member / Partner	Identity Number	Physical residential address of Director / Member / Partner	Municipal Account number(s)

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 8: Contract Price Adjustment and/or Rate of Exchange Variation

8.1 PRICING INSTRUCTIONS

- 8.1.1 This is a multi-year tender and clear understanding of Contract Price Adjustment provisions must be established to avoid pricing risk during the resulting contract(s).
- 8.1.2 The Contract Price Adjustment mechanisms contained in this schedule are compulsory and binding on all tenderers. Failure to complete this schedule or any part thereof may result in the tender offer being declared non-responsive.
- 8.1.3 Tenderers are not permitted to amend, vary, alter or delete this schedule or any part thereof unless otherwise stated in this schedule, failing which the tender offer shall be declared non-responsive.
- 8.1.4 Tenderers are not permitted to offer fixed prices for the contract duration except as provided for in the Price Schedule, and if the tenderer offers fixed prices in contravention of this clause the tender offer shall be declared non-responsive.
- 8.1.5 The contracted prices in the pricing schedule shall be adjusted from the commencement date as laid out below.
- 8.1.6 Tenderers are required to complete Sections 8.2.1 and 8.2.2 below to establish the Contract Price Adjustment basis.
- 8.1.7 Tenderers shall in addition complete Schedule 10 of this specification if Rate of Exchange Variations are applicable.
- 8.1.8 The international components of labour and material must be listed in Schedule 10: Price basis for imported resources.

8.2 CONTRACT PRICE ADJUSTMENT

8.2.1 Labour, Plant and Transport

- 8.2.1.1 A minimum of 10% of the tender price shall be fixed and free of variation for the duration of the contract.
- 8.2.1.2 Contract Price Adjustment for labour (local), plant and transport components, shall be allowed **only** for variations in the cost based on the indices published by the Steel and Engineering Industries Federation of South Africa (SEIFSA), using the contract price adjustment formula indicated in the table below.
- 8.2.1.3 Contract Price Adjustment for labour (international) shall be allowed **only** for variations in the cost based on **EITHER**:

(a) the SEIFSA indices and contract price adjustment formula detailed in the table below

OR

(b) a Foreign Published Index (similar to SEIFSA) in country of origin and the applicable contract price adjustment formula which the tenderer shall specify in the table of this returnable schedule in the spaces provided and titled **"INFORMATION TO BE PROVIDED WITH THE TENDER."**

The tenderer **SHALL INDICATE IN THE TABLE BELOW WHICH OPTION WILL BE APPLICABLE** to the submitted tender by striking through the one **NOT APPLICABLE**.

Failure select an option or specify the Foreign Published Index and Contract Price Adjustment formula for this option in the Tender, shall mean that the prices are fixed or shall be deemed to be fixed.

- 8.2.1.4 The base month for Contract Price Adjustment calculations shall be the calendar month prior to the month of the closing date for tenders, and published indices applicable to this month shall be used.

- 8.2.1.5 The contracted prices for labour (local), labour (international), transport and plant shall be adjusted per item based on the SEIFSA indices or Foreign Published Indices (similar to SEIFSA) in the country of origin, published for the calendar month(s) in which the work was carried out.
- 8.2.1.6 The process to be followed by Contractors for claims for contract price adjustment shall be as follows:
- The Contractor shall approach the Employer, with written applications for contract price adjustment after payment certificates are approved by the Employer, but no later than 90 days after works completion.
 - The application shall be based upon the indices as stipulated in clauses 8.2.1.4 and 8.2.1.5 and shall detail the proposed adjusted unit prices for the Works Project and include detailed calculations indicating how the adjusted unit prices per item have been established and the total adjustment for the works project. Evidence of the indices applicable shall be provided with each claim.
 - Calculations of the contract price adjustment shall use the original tendered unit rates, the base indices as stipulated in 8.2.1.4, the indices as stipulated in clause 8.2.1.5 and the contract price adjustment formula and shall contain no other factors or adjustments.
 - The Employer will check and approve the proposed unit prices and the total adjustment for the works project. The Employer will notify the Contractor in writing of approval of the adjusted prices. Any communications regarding approval of the proposed adjusted prices shall be completed within 30 days of receipt of the contract price adjustment application for the works project.
 - Failure by the Contractor to submit claims for Contract Price Adjustment within the timeframes detailed above will result in the unit rates for the Goods and Services concerned being determined by the Employer in accordance with the published applicable indices. The Employer however reserves the right in such a case not to amend the unit rates for the Goods and Services if it is not to the Employer's advantage.

8.2.2 Material

- 8.2.2.1 A minimum of 10% of the tender price shall be fixed and free of variation for the duration of the contract.
- 8.2.2.2 Contract Price Adjustment for locally produced material shall be allowed **only** for variations in the cost based on SEIFSA indices and using the contract price adjustment formula as indicated in the table below.
- 8.2.2.3 Contract Price Adjustment for imported material shall be allowed **only** for variations in the cost based on **EITHER**:
- the SEIFSA indices and contract price adjustment formula detailed in the table below.

OR

- a Foreign Published Index (similar to SEIFSA) in country of origin and the applicable contract price adjustment formula which the tenderer shall specify in the table of this returnable schedule in the spaces provided and titled **"INFORMATION TO BE PROVIDED WITH THE TENDER."**

The tenderer **SHALL INDICATE IN THE TABLE BELOW WHICH OPTION WILL BE APPLICABLE** to the submitted tender by striking through the one **NOT APPLICABLE**.

Failure select an option or specify the Foreign Published Index and Contract Price Adjustment formula for this option in the Tender, shall mean that the prices are fixed or shall be deemed to be fixed

- 8.2.2.4 The base month for Contract Price Adjustment calculations shall be the calendar month prior to the month of the closing date for tenders, and published indices applicable to this month shall be used.
- 8.2.2.5 The contracted prices for material shall be adjusted per item based on the indices applicable 42 days before contractual dispatch date from the factory.
- 8.2.2.6 The process to be followed by Contractors for claims for contract price adjustment shall be as follows:

- a) The Contractor shall approach the Employer, with a written application for contract price adjustment after receipt of the goods by the Employer, but no later than 90 days after the receipt of the goods by the Employer.
- b) The application shall be based upon the indices as stipulated in clauses 8.2.2.4 and 8.2.2.5 and shall detail the proposed adjusted unit prices for the material and include detailed calculations indicating how the adjusted unit prices per item have been calculated. Evidence of the indices applicable shall be provided with each claim.
- c) Calculations of the contract price adjustment shall use the original tendered unit rates, the base month indices as stipulated in clause 8.2.2.4, the indices as stipulated in clause 8.2.2.5 and the contract price adjustment formula and shall contain no other factors or adjustments.
- d) The Employer will check and approve the proposed unit prices and the total adjustment for the material. The Employer will notify the Contractor in writing of approval of the adjusted prices. Any communications regarding approval of the proposed adjusted prices shall be completed within 30 days of receipt of the contract price adjustment application for the material.
- e) Failure by the Contractor to submit claims for Contract Price Adjustment within the timeframes detailed above will result in the unit rates for the Goods and Services concerned being determined by the Employer in accordance with the applicable published indices. The Employer however reserves the right in such a case not to amend the unit rates for the Goods if it is not to the Employer's advantage.

8.3 Contract Price Adjustment – General

8.3.1 All requests for variation in the contract price shall be submitted in writing as follows:

- By letter to: The Manager: Contract Management Unit, City of Cape Town, P O Box 655, Cape Town, 8000, or
- by email to: Energy.ContractAdministration@capetown.gov.za and the contract administrator/manager: gideon.keyser@capetown.gov.za

as defined in clause 8.2.

8.3.2 When submitting an application for contract price adjustment, the Contractor shall provide the applicable month's actual indices for the SEIFSA Table No's or Published Foreign Indices in the country of origin and the actual revised rate proposed for each item. The information shall be supplied in the format that is provided below. A mere notification of an application for contract price adjustment without stating the adjusted price claimed for each item shall, for the purpose of this clause, not be regarded as a valid claim.

8.3.3 The Employer reserves the right to request the Contractor to submit auditor's certificates or such other documentary proof as it may require in order to verify a claim for contract price adjustment. Should the supplier fail to submit such auditor's certificates or other documentary proof to the City of Cape Town within a period of 30 (thirty) days from the date of the request, it shall be presumed that the supplier has abandoned his claim.

8.3.4 Where CPA adjustment claims are investigated and found to be not reasonable and market related the City reserves the right to reject such claims. Where disputes arise with respect to such rejected claims the City reserves the right to invoke the Alternative Contractor provisions of the contract and place orders with the Alternative Contractor until such time as the dispute is resolved.

CPA Category	CPA Formula	Published Indices	Applicable Items
Labour (local)	$A = 0.9 \times V \times (X_e/X_o - 1)$	SEIFSA Table C-3	All local labour items
Labour (international) (Select (a) or (b))	<p>(a)</p> $A = 0.9 \times V \times (X_e/X_o - 1)$	SEIFSA Table C-3	All international labour items
	<p>OR</p> <p>(b)</p> <p>Specify CPA Formula Applicable to the Foreign Published Index</p> <p>NB: Information to be provided with the tender</p>	<p>Specify Foreign Published Index (similar to SEIFSA) in country of Origin:</p> <p>NB: Information to be provided with the tender</p>	
Transport	$A = 0.9 \times V \times (X_e/X_o - 1)$	Table L-3	All transport items
Local Materials	$A = 0.9 \times V \times (X_e/X_o - 1)$	Table U-A Production Price Index - Final Manufactured Goods	All local material items
Imported Materials (Select (a) or (b))	<p>(a)</p> $A = 0.9 \times V \times (X_e/X_o - 1)$	SEIFSA Table U-A Production Price Index - Final Manufactured	All international material items
	<p>OR</p> <p>(b)</p> <p>Specify CPA Formula Applicable to the Foreign Published Index</p> <p>NB: Information to be provided with the tender</p>	<p>Specify Foreign Published Index (similar to SEIFSA) in country of Origin:</p> <p>NB: Information to be provided with the tender</p>	

CPI	$A = 0.9 \times V \times (X_e/X_o - 1)$	Table D-3 Consumer Price Index	All other items not covered by the above
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Where:

- A = the adjusted amount
 0.9 = a constant which provides for a 10% non-adjustable element
 V = the tendered value of such item
 X_o = the value of the index applicable to an item for the base month as defined in clauses 8.2.1.4 or 8.2.2.4
 X_e = the value of the index applicable to Labour, Plant and Transport items shall be as defined in clause 8.2.1.5
 the value of the index applicable to locally produced and imported material items shall be as defined in clause 8.2.2.5

Schedule 9: Certificate of Independent Tender Determination

I, the undersigned, in submitting this tender [DRAFTER TO INSERT TENDER NUMBER AND DESCRIPTION] in response to the tender invitation made by THE CITY OF CAPE TOWN, do hereby make the following statements, which I certify to be true and complete in every respect:

I certify, on behalf of: _____ (Name of tenderer)

That:

1. I have read and I understand the contents of this Certificate;
2. I understand that this tender will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorised by the tenderer to sign this Certificate, and to submit this tender, on behalf of the tenderer;
4. Each person whose signature appears on this tender has been authorised by the tenderer to determine the terms of, and to sign, the tender on behalf of the tenderer;
5. For the purposes of this Certificate and this tender, I understand that the word 'competitor' shall include any individual or organisation other than the tenderer, whether or not affiliated with the tenderer, who:
 - (a) has been requested to submit a tender in response to this tender invitation;
 - (b) could potentially submit a tender in response to this tender invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the tenderer and/or is in the same line of business as the tenderer.
6. The tenderer has arrived at this tender independently from and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium¹ will not be construed as collusive price quoting.
7. In particular, without limiting the generality of paragraphs 5 and 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation);
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit a tender;
 - (e) the submission of a tender which does not meet the specifications and conditions of the tender; or
 - (f) tendering with the intention not to win the contract.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this tender invitation relates.
9. The terms of this tender have not been and will not be disclosed by the tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to tenders and contracts, tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act, Act 89 of 1998, and/or may be reported to the National Prosecuting Authority (NPA) for criminal investigation, and/or may be restricted from conducting business with the public sector for a period not exceeding 10 (ten) years in terms of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, or any other applicable legislation.

Signature

Date

Name (PRINT)

(For and on behalf of the Tenderer (duly authorised))

(¹ Consortium: Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.)

Schedule 10: Price Basis for Imported Resources

[illegible]

State Customs Duty Tariff Reference for each item

Note:

Note that any Resources not inserted in this Returnable Schedule shall be deemed to be manufactured / supplied in South Africa for the purposes of Contract Price Adjustment. The BASE DATE referred to in column (B) will be 7 calendar days before tender closing.

SIGNED ON BEHALF OF TENDERER:

Schedule 11: List of other documents attached by tenderer

The tenderer has attached to this schedule, the following additional documentation:		
	Date of Document	Title of Document or Description (refer to clauses / schedules of this tender document where applicable)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		

Attach additional pages if more space is required.

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 12: Record of Addenda to Tender Documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

SIGNED ON BEHALF OF TENDERER:

Schedule 13: Information to be provided with the tender
--

The following information shall be provided with the Tender:

RETURNABLE SCHEDULES FOR SECTION A: SIEMENS HIGH VOLTAGE GIS

Item	Schedule to be completed	Technical requirements
1	Schedule 13 A1: Personnel Relevant Experience	Requirements are as per clause 13.10.6, 13.10.7, 13.10.8 and 13.10.9 of the specification.
2	Schedule 13 A2: Previous Company Relevant Experience History	Requirements are as per clause 13.10.5 of the specification
3	Schedule 13 A3: Estimated Delivery and Duration of the Works	Requirements are as per clause 13.8 of the specification
4	Schedule 13 A4: Proof of Access to OEM Approved or Certified Equivalent Spares	Requirements are as per clause 13.9.1 of the specification
5	Schedule 13 A5: Sample Inspection and Maintenance Report for the Specified HV GIS	Requirements are as per clause 13.10.13 of the specification
6	Schedule 13 A6: Training Instructor's Experience in Specified HV GIS Inspection and Maintenance	Requirements are as per clause 13.15.3 of the specification
7	Schedule 13 A7: Specified HV GIS Inspection and Maintenance Training Course (Contents, Durations and Prerequisites of Participants	Requirements are as per clause 13.15.2 of the specification

Note: Schedules A3 – A7 are required for internal purposes of CCT and not evaluation of the tender

SCHEDULE 13 A1: PERSONNEL RELEVANT EXPERIENCE.

Tenderers shall set out in the Schedule hereunder details of the staff experience in work of a similar nature to that for which their Tender is submitted as per **clauses 13.10.6, 13.10.7, 13.10.8 and 13.10.9** of the specification. **Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.**

HV GIS SPECIALISTS (Attach competency certificates for all specialists to this schedule)				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SERVICE TECHNICIANS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SEMI-SKILLED WORKERS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

Note: If further space is required, the details can be provided on a separate sheets but provide adequate information to demonstrate the relevant knowledge and experience and the number of years that each resource possesses.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 A2: PREVIOUS COMPANY RELEVANT EXPERIENCE HISTORY

The following information must be provided by the tenderer at the time of tendering. The tenderer shall provide the details of previous proven competency and experience in the execution of work that is described in this document as per **clause 13.10.5** of the specification. **This experience must be accompanied by the OEM certification.**

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

ITEM No.	Company Name	Description of Relevant work	Contact person	Contact Number	Period (Start- End dates)
1.					
2.					
3.					
4.					
5.					
6.					

If further space is required, the details can be provided on a separate sheet.

SIGNED ON BEHALF OF TENDERER: .

SCHEDULE 13 A3: ESTIMATED DELIVERY AND DURATION OF THE WORKS

The tenderer shall provide the estimated duration to complete inspection and service on each bay as detailed on the table below as per the scope of specification, this includes the supply and delivery of all materials required. (Refer to Clause 13.8 of the specification)

Maintenance Activities are as per OEM maintenance protocols and technical improvements protocols (as per clause 13.11 of the specification)

Switchgear Type	Estimated Durations per Maintenance type		
	M1	M2	M3
8DN6-1			
8DN8-1			
8DN8-2		N/A	
8DN8-5		N/A	
8DN9-1			
8DV2051			
3AP1 DTC		N/A	

SCHEDULE 13 A4: PROOF OF ACCESS TO OEM APPROVED OR CERTIFIED EQUIVALENT SPARES (Refer to clause 13.9.1 of the specification)

Attach proof of access to spares - Letters from suppliers confirming an account or copy of supplier agreements

SCHEDULE 13 A5: SAMPLE INSPECTION AND MAINTENANCE REPORT

(Refer to clause 13.10.13 of the specification)

Attach sample report

SCHEDULE 13 A6: TRAINING INSTRUCTOR'S EXPERIENCE IN SPECIFIED HV GIS INSPECTION AND MAINTENANCE

COMPLETE SEPARATE FORMS PER TRAINING INSTRUCTOR (if required) - Details of minimum 3 years' experience of providing the specified training. The detailed CV for each training instructor shall be attached to the completed schedule (refer to clause 13.15.3 of the specification)

Name of Training Instructor:				
No.	Details of the course(s) presented	Client Name and Contact No.	Duration	Date

SIGNED ON BEHALF OF TENDERER:

**SCHEDULE 13 A7: SPECIFIED HV GIS INSPECTION AND MAINTENANCE TRAINING
COURSE CONTENTS, DURATIONS AND PREREQUISITES OF PARTICIPANTS)**

(Refer to clause 13.15.2 of the specification)

Attach required course information and include details of any other relevant training as well

RETURNABLE SCHEDULES FOR SECTION B: HOLEC HIGH VOLTAGE GIS

Item	Schedule to be completed	Technical requirements
1	Schedule 13 B1: Personnel Relevant Experience	Requirements are as per clause 13.10.6, 13.10.7, 13.10.8 and 13.10.9 of the specification.
2	Schedule 13 B2: Previous Company Relevant Experience History	Requirements are as per clause 13.10.5 of the specification
3	Schedule 13 B3: Estimated Delivery and Duration of the Works	Requirements are as per clause 13.8 of the specification
4	Schedule 13 B4: Proof of Access to OEM Approved or Certified Equivalent Spares	Requirements are as per clause 13.9.1 of the specification
5	Schedule 13 B5: Sample Inspection and Maintenance Report for the Specified HV GIS	Requirements are as per clause 13.10.13 of the specification
6	Schedule 13 B6: Training Instructor's Experience in Specified HV GIS Inspection and Maintenance	Requirements are as per clause 13.15.3 of the specification
7	Schedule 13 B7: Specified HV GIS Inspection and Maintenance Training Course (Contents, Durations and Prerequisites of Participants	Requirements are as per clause 13.15.2 of the specification

Note: Schedules B3– B7 are required for internal purposes of CCT and not evaluation of the tender

SCHEDULE 13 B1: PERSONNEL RELEVANT EXPERIENCE.

Tenderers shall set out in the Schedule hereunder details of the staff experience in work of a similar nature to that for which their Tender is submitted as per **clauses 13.10.6, 13.10.7, 13.10.8 and 13.10.9** of the specification. **Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.**

HV GIS SPECIALISTS (Attach competency certificates for all specialists to this schedule)				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SERVICE TECHNICIANS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SEMI-SKILLED WORKERS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

Note: If further space is required, the details can be provided on a separate sheets but provide adequate information to demonstrate the relevant knowledge and experience and the number of years that each resource possesses.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 B2: PREVIOUS COMPANY RELEVANT EXPERIENCE HISTORY

The following information must be provided by the tenderer at the time of tendering. The tenderer shall provide the details of previous proven competency and experience in the execution of work that is described in this document as per **clause 13.10.5** of the specification. **This experience must be accompanied by the OEM certification.**

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

ITEM No.	Company Name	Description of Relevant work	Contact person	Contact Number	Period (Start- End dates)
1.					
2.					
3.					
4.					
5.					
6.					

If further space is required, the details can be provided on a separate sheet.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 B3: ESTIMATED DELIVERY AND DURATION OF THE WORKS

The tenderer shall provide the estimated duration to complete inspection and service on each bay as detailed on the table below as per the scope of specification, this includes the supply and delivery of all materials required. (Refer to Clause 13.8 of the specification)

Maintenance Activities are as per OEM Service protocols and technical improvements protocols (as per clause 13.11 of the specification)

Switchgear Type	Estimated Durations per Maintenance type		
	M1	M2	M3
Holec Trisep-P6			

SCHEDULE 13 B4: PROOF OF ACCESS TO OEM APPROVED OR CERTIFIED EQUIVALENT SPARES

(Refer to clause 13.9.1 of the specification)

Attach proof of access to spares - Letters from suppliers confirming an account or copy of supplier agreements

SCHEDULE 13 B5: SAMPLE INSPECTION AND MAINTENANCE REPORT

(Refer to clause 13.10.13 of the specification)

Attach sample report

SCHEDULE 13 B6: TRAINING INSTRUCTOR'S EXPERIENCE IN SPECIFIED HV GIS INSPECTION AND MAINTENANCE

COMPLETE SEPARATE FORMS PER TRAINING INSTRUCTOR (if required) - Details of minimum 3 years' experience of providing the specified training. The detailed CV for each training instructor shall be attached to the completed schedule. (Refer to clause 13.15.3 of the specification)

Name of Training Instructor:				
No.	Details of the course(s) presented	Client Name and Contact No.	Duration	Date

SIGNED ON BEHALF OF TENDERER:

**SCHEDULE 13 B7: SPECIFIED HV GIS INSPECTION AND MAINTENANCE TRAINING
COURSE CONTENTS, DURATIONS AND PREREQUISITES OF PARTICIPANTS)**

(Refer to clause 13.15.2 of the specification)

Attach required course information and include details of any other relevant training as well

RETURNABLE SCHEDULES FOR SECTION C: ABB HIGH VOLTAGE GIS

Item	Schedule to be completed	Technical requirements
1	Schedule 13 C1: Personnel Relevant Experience	Requirements are as per clause 13.10.6, 13.10.7, 13.10.8 and 13.10.9 of the specification.
2	Schedule 13 C2: Previous Company Relevant Experience History	Requirements are as per clause 13.10.5 of the specification
3	Schedule 13 C3: Estimated Delivery and Duration of the Works	Requirements are as per clause 13.8 of the specification
4	Schedule 13 C4: Proof of Access to OEM Approved or Certified Equivalent Spares	Requirements are as per clause 13.9.1 of the specification
5	Schedule 13 C5: Sample Inspection and Maintenance Report for the Specified HV GIS	Requirements are as per clause 13.10.13 of the specification
6	Schedule 13 C6: Training Instructor's Experience in Specified HV GIS Inspection and Maintenance	Requirements are as per clause 13.15.3 of the specification
7	Schedule 13 C7: Specified HV GIS Inspection and Maintenance Training Course (Contents, Durations and Prerequisites of Participants	Requirements are as per clause 13.15.2 of the specification

Note: Schedules C3 – C7 are required for internal purposes of CCT and not evaluation of the tender

SCHEDULE 13 C1: PERSONNEL RELEVANT EXPERIENCE.

Tenderers shall set out in the Schedule hereunder details of the staff experience in work of a similar nature to that for which their Tender is submitted as per **clauses 13.10.6, 13.10.7, 13.10.8 and 13.10.9** of the specification. **Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.**

HV GIS SPECIALISTS (Attach competency certificates for all specialists to this schedule)				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SERVICE TECHNICIANS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SEMI-SKILLED WORKERS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

Note: If further space is required, the details can be provided on a separate sheets but provide adequate information to demonstrate the relevant knowledge and experience and the number of years that each resource possesses.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 C2: PREVIOUS COMPANY RELEVANT EXPERIENCE HISTORY

The following information must be provided by the tenderer at the time of tendering. The tenderer shall provide the details of previous proven competency and experience in the execution of work that is described in this document as per **clause 13.10.5** of the specification. **This experience must be accompanied by the OEM certification.**

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

ITEM No.	Company Name	Description of Relevant work	Contact person	Contact Number	Period (Start- End dates)
1.					
2.					
3.					
4.					
5.					
6.					

If further space is required, the details can be provided on a separate sheet.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 C3: ESTIMATED DELIVERY AND DURATION OF THE WORKS

The tenderer shall provide the estimated duration to complete inspection and service on each bay as detailed on the table below as per the scope of specification, this includes the supply and delivery of all materials required. (Refer to Clause 13.8 of the specification)

Maintenance Activities are as per OEM Service protocols and technical improvements protocols (as per clause 13.11 of the specification)

Switchgear Type	8 Yearly check/ inspection	Maintenance
ABB ENK 1		

SCHEDULE 13 C4: PROOF OF ACCESS TO OEM APPROVED OR CERTIFIED EQUIVALENT SPARES

(Refer to clause 13.9.1 of the specification)

Attach proof of access to spares - Letters from suppliers confirming an account or copy of supplier agreements

SCHEDULE 13 C5: SAMPLE INSPECTION AND MAINTENANCE REPORT

(Refer to clause 13.10.13 of the specification)

Attach sample report

SCHEDULE 13 C6: TRAINING INSTRUCTOR'S EXPERIENCE IN SPECIFIED HV GIS INSPECTION AND MAINTENANCE**COMPLETE SEPARATE FORMS PER TRAINING INSTRUCTOR (if required)** - Details of minimum 3 years' experience of providing the specified training.

The detailed CV for each training instructor shall be attached to the completed schedule. (Refer to clause 13.15.3 of the specification)

Name of Training Instructor:				
No.	Details of the course(s) presented	Client Name and Contact No.	Duration	Date

SIGNED ON BEHALF OF TENDERER:

**SCHEDULE 13 C7: SPECIFIED HV GIS INSPECTION AND MAINTENANCE TRAINING
COURSE CONTENTS, DURATIONS AND PREREQUISITES OF PARTICIPANTS)**

(Refer to clause 13.15.2 of the specification)

Attach required course information and include details of any other relevant training as well

RETURNABLE SCHEDULES FOR SECTION D: HITACHI HIGH VOLTAGE GIS

Item	Schedule to be completed	Technical requirements
1	Schedule 13 D1: Personnel Relevant Experience	Requirements are as per clause 13.10.6, 13.10.7, 13.10.8 and 13.10.9 of the specification.
2	Schedule 13 D2: Previous Company Relevant Experience History	Requirements are as per clause 13.10.5 of the specification
3	Schedule 13 D3: Estimated Delivery and Duration of the Works	Requirements are as per clause 13.8 of the specification
4	Schedule 13 D4: Proof of Access to OEM Approved or Certified Equivalent Spares	Requirements are as per clause 13.9.1 of the specification
5	Schedule 13 D5: Sample Inspection and Maintenance Report for the Specified HV GIS	Requirements are as per clause 13.10.13 of the specification
6	Schedule 13 D6: Training Instructor's Experience in Specified HV GIS Inspection and Maintenance	Requirements are as per clause 13.15.3 of the specification
7	Schedule 13 D7: Specified HV GIS Inspection and Maintenance Training Course (Contents, Durations and Prerequisites of Participants	Requirements are as per clause 13.15.2 of the specification

Note: Schedules D3 – D7 are required for internal purposes of CCT and not evaluation of the tender

SCHEDULE 13 D1: PERSONNEL RELEVANT EXPERIENCE.

Tenderers shall set out in the Schedule hereunder details of the staff experience in work of a similar nature to that for which their Tender is submitted as per **clauses 13.10.6, 13.10.7, 13.10.8 and 13.10.9** of the specification. **Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.**

HV GIS SPECIALISTS (Attach competency certificates for all specialists to this schedule)				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SERVICE TECHNICIANS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SEMI-SKILLED WORKERS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

Note: If further space is required, the details can be provided on a separate sheets but provide adequate information to demonstrate the relevant knowledge and experience and the number of years that each resource possesses.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 D2: PREVIOUS COMPANY RELEVANT EXPERIENCE HISTORY

The following information must be provided by the tenderer at the time of tendering. The tenderer shall provide the details of previous proven competency and experience in the execution of work that is described in this document as per **clause 13.10.5** of the specification. **This experience must be accompanied by the OEM certification.**

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

ITEM No.	Company Name	Description of Relevant work	Contact person	Contact Number	Period (Start- End dates)
1.					
2.					
3.					
4.					
5.					
6.					

If further space is required, the details can be provided on a separate sheet.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 D3: ESTIMATED DELIVERY AND DURATION OF THE WORKS

The tenderer shall provide the estimated duration to complete inspection and service on each bay as detailed on the table below as per the scope of specification, this includes the supply and delivery of all materials required. (Refer to Clause 13.8)

Maintenance Activities are as per OEM Service protocols and technical improvements protocols (as per clause 13.11 of the specification)

Switchgear Type	8 Yearly check/ inspection	Maintenance
Hitachi/ABB ELK 4		

SCHEDULE 13 D4: PROOF OF ACCESS TO OEM APPROVED OR CERTIFIED EQUIVALENT SPARES

(Refer to clause 13.9.1 of the specification)

Attach proof of access to spares - Letters from suppliers confirming an account or copy of supplier agreements

SCHEDULE 13 D5: SAMPLE INSPECTION AND MAINTENANCE REPORT

(Refer to clause 13.10.13 of the specification)

Attach sample report

SCHEDULE 13 D6: TRAINING INSTRUCTOR'S EXPERIENCE IN SPECIFIED HV GIS INSPECTION AND MAINTENANCE**COMPLETE SEPARATE FORMS PER TRAINING INSTRUCTOR (if required)** - Details of minimum 3 years' experience of providing the specified training.

The detailed CV for each training instructor shall be attached to the completed schedule. (Refer to clause 13.15.3 of the specification)

Name of Training Instructor:				
No.	Details of the course(s) presented	Client Name and Contact No.	Duration	Date

SIGNED ON BEHALF OF TENDERER:

**SCHEDULE 13 D7: SPECIFIED HV GIS INSPECTION AND MAINTENANCE TRAINING
COURSE (CONTENTS, DURATIONS AND PREREQUISITES OF PARTICIPANTS)**

(Refer to clause 13.15.2 of the specification)

Attach required course information and include details of any other relevant training as well

RETURNABLE SCHEDULES FOR SECTION E: AREVA HIGH VOLTAGE GIS

Item	Schedule to be completed	Technical requirements
1	Schedule 13 E1: Personnel Relevant Experience	Requirements are as per clause 13.10.6, 13.10.7, 13.10.8 and 13.10.9 of the specification.
2	Schedule 13 E2: Previous Company Relevant Experience History	Requirements are as per clause 13.10.5 of the specification
3	Schedule 13 E3: Estimated Delivery and Duration of the Works	Requirements are as per clause 13.8 of the specification
4	Schedule 13 E4: Proof of Access to OEM Approved or Certified Equivalent Spares	Requirements are as per clause 13.9.1 of the specification
5	Schedule 13 E5: Sample Inspection and Maintenance Report for the Specified HV GIS	Requirements are as per clause 13.10.13 of the specification
6	Schedule 13 E6: Training Instructor's Experience in Specified HV GIS Inspection and Maintenance	Requirements are as per clause 13.15.3 of the specification
7	Schedule 13 E7: Specified HV GIS Inspection and Maintenance Training Course (Contents, Durations and Prerequisites of Participants	Requirements are as per clause 13.15.2 of the specification

Note: Schedules E3 – E7 are required for internal purposes of CCT and not evaluation of the tender

SCHEDULE 13 E1: PERSONNEL RELEVANT EXPERIENCE.

Tenderers shall set out in the Schedule hereunder details of the staff experience in work of a similar nature to that for which their Tender is submitted as per **clauses 13.10.6, 13.10.7, 13.10.8 and 13.10.9** of the specification. **Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.**

HV GIS SPECIALISTS (Attach competency certificates for all specialists to this schedule)				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SERVICE TECHNICIANS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SEMI-SKILLED WORKERS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

Note: If further space is required, the details can be provided on a separate sheets but provide adequate information to demonstrate the relevant knowledge and experience and the number of years that each resource possesses.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 E2: PREVIOUS COMPANY RELEVANT EXPERIENCE HISTORY

The following information must be provided by the tenderer at the time of tendering. The tenderer shall provide the details of previous proven competency and experience in the execution of work that is described in this document as per **clause 13.10.5** of the specification. **This experience must be accompanied by the OEM certification.**

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

ITEM No.	Company Name	Description of Relevant work	Contact person	Contact Number	Period (Start- End dates)
1.					
2.					
3.					
4.					
5.					
6.					

If further space is required, the details can be provided on a separate sheet.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 E3: ESTIMATED DELIVERY AND DURATION OF THE WORKS

The tenderer shall provide the estimated duration to complete inspection and service on each bay as detailed on the table below as per the scope of specification, this includes the supply and delivery of all materials required. (Refer to Clause 13.8)

Maintenance Activities are as per OEM Service protocols and technical improvements protocols (as per clause 13.11 of the specification)

Switchgear Type	Estimated Durations per Maintenance type		
	Minor Inspection	Major Inspection	Preventative Maintenance
AREVA F35 -145K			

SCHEDULE 13 E4: PROOF OF ACCESS TO OEM APPROVED OR CERTIFIED EQUIVALENT SPARES

(Refer to clause 13.9.1 of the specification)

Attach proof of access to spares - Letters from suppliers confirming an account or copy of supplier agreements

SCHEDULE 13 E5: SAMPLE INSPECTION AND MAINTENANCE REPORT

(Refer to clause 13.10.13 of the specification)

Attach sample report

SCHEDULE 13 E6: TRAINING INSTRUCTOR'S EXPERIENCE IN SPECIFIED HV GIS INSPECTION AND MAINTENANCE**COMPLETE SEPARATE FORMS PER TRAINING INSTRUCTOR (if required)** - Details of minimum 3 years' experience of providing the specified training.

The detailed CV for each training instructor shall be attached to the completed schedule. (Refer to clause 13.15.3 of the specification)

Name of Training Instructor:				
No.	Details of the course(s) presented	Client Name and Contact No.	Duration	Date

SIGNED ON BEHALF OF TENDERER:

**SCHEDULE 13 E7: SPECIFIED HV GIS INSPECTION AND MAINTENANCE TRAINING
COURSE (CONTENTS, DURATIONS AND PREREQUISITES OF PARTICIPANTS)**

(Refer to clause 13.15.2 of the specification)

Attach required course information and include details of any other relevant training as well

RETURNABLE SCHEDULES FOR SECTION F: XD HIGH VOLTAGE GIS

Item	Schedule to be completed	Technical requirements
1	Schedule 13 F1: Personnel Relevant Experience	Requirements are as per clause 13.10.6, 13.10.7, 13.10.8 and 13.10.9 of the specification.
2	Schedule 13 F2: Previous Company Relevant Experience History	Requirements are as per clause 13.10.5 of the specification
3	Schedule 13 F3: Estimated Delivery and Duration of the Works	Requirements are as per clause 13.8 of the specification
4	Schedule 13 F4: Proof of Access to OEM Approved or Certified Equivalent Spares	Requirements are as per clause 13.9.1 of the specification
5	Schedule 13 F5: Sample Inspection and Maintenance Report for the Specified HV GIS	Requirements are as per clause 13.10.13 of the specification
6	Schedule 13 F6: Training Instructor's Experience in Specified HV GIS Inspection and Maintenance	Requirements are as per clause 13.15.3 of the specification
7	Schedule 13 F7: Specified HV GIS Inspection and Maintenance Training Course (Contents, Durations and Prerequisites of Participants	Requirements are as per clause 13.15.2 of the specification

Note: Schedules F3 – F7 are required for internal purposes of CCT and not evaluation of the tender

SCHEDULE 13 F1: PERSONNEL RELEVANT EXPERIENCE.

Tenderers shall set out in the Schedule hereunder details of the staff experience in work of a similar nature to that for which their Tender is submitted as per **clauses 13.10.6, 13.10.7, 13.10.8 and 13.10.9** of the specification. **Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.**

HV GIS SPECIALISTS (Attach competency certificates for all specialists to this schedule)				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SERVICE TECHNICIANS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

SEMI-SKILLED WORKERS				
Name	Work carried out with equipment makes, types, ratings and type of work carried out	Position held	Dates of the work	Contactable references

Note: If further space is required, the details can be provided on a separate sheets but provide adequate information to demonstrate the relevant knowledge and experience and the number of years that each resource possesses.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 F2: PREVIOUS COMPANY RELEVANT EXPERIENCE HISTORY

The following information must be provided by the tenderer at the time of tendering. The tenderer shall provide the details of previous proven competency and experience in the execution of work that is described in this document as per **clause 13.10.5** of the specification. **This experience must be accompanied by the OEM certification.**

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

ITEM No.	Company Name	Description of Relevant work	Contact person	Contact Number	Period (Start- End dates)
1.					
2.					
3.					
4.					
5.					
6.					

If further space is required, the details can be provided on a separate sheet.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 F3: ESTIMATED DELIVERY AND DURATION OF THE WORKS

The tenderer shall provide the estimated duration to complete inspection and service on each bay as detailed on the table below as per the scope of specification, this includes the supply and delivery of all materials required. (Refer to Clause 13.8)

Maintenance Activities are as per OEM Service protocols and technical improvements protocols (as per clause 13.11 of the specification)

Switchgear Type	Estimated Durations per Maintenance type		
	Minor Inspection	Major Inspection	Preventative Maintenance
XD Z7F-145/40kA			

SCHEDULE 13 F4: PROOF OF ACCESS TO OEM APPROVED OR CERTIFIED EQUIVALENT SPARES

(Refer to clause 13.9.1 of the specification)

Attach proof of access to spares - Letters from suppliers confirming an account or copy of supplier agreements

SCHEDULE 13 F5: SAMPLE INSPECTION AND MAINTENANCE REPORT

(Refer to clause 13.10.13 of the specification)

Attach sample report

SCHEDULE 13 F6: TRAINING INSTRUCTOR'S EXPERIENCE IN SPECIFIED HV GIS INSPECTION AND MAINTENANCE

COMPLETE SEPARATE FORMS PER TRAINING INSTRUCTOR (if required) - Details of minimum 3 years' experience of providing the specified training. The detailed CV for each training instructor shall be attached to the completed schedule. (Refer to clause 13.15.3 of the specification)

Name of Training Instructor:				
No.	Details of the course(s) presented	Client Name and Contact No.	Duration	Date

SIGNED ON BEHALF OF TENDERER:

**SCHEDULE 13 F7: SPECIFIED HV GIS INSPECTION AND MAINTENANCE TRAINING
COURSE (CONTENTS, DURATIONS AND PREREQUISITES OF PARTICIPANTS)**

(Refer to clause 13.15.2 of the specification)

Attach required course information and include details of any other relevant training as well

RETURNABLE SCHEDULES FOR SECTION G: ONLINE PARTIAL DISCHARGE TESTING ON HV GIS

Item	Schedule to be completed	Technical requirements
1	Schedule 13 G1: Personnel Relevant Experience	Requirements are as per clauses 13.17.13, 13.17.14, and 13.17.15 of the specification.
2	Schedule 13 G2: Previous Company Relevant Experience History	Requirements are as per clause 13.17.5 of the specification
3	Schedule 13 G3: Sample Inspection and Maintenance Report for the Specified HV GIS	Requirements are as per clause 13.17.10 of the specification
4.	Schedule 13 G4: Online Partial Discharge Test procedures	Requirements are as per clause 13.17.12 of the specification

Note: Schedules F3 and F4 are required for internal purposes of CCT and not evaluation of the tender

SCHEDULE 13 G1: PERSONNEL RELEVANT EXPERIENCE.

Tenderers shall set out in the Schedule hereunder details of the staff experience in work of a similar nature to that for which their Tender is submitted as per **clauses 13.17.13, 13.17.14, and 13.17.15** of the specification.

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

SENIOR TEST TECHNICIANS (Attach competency certificates for all specialists to this schedule)				
Name	Testing carried out with GIS makes, types and ratings	Position held	Dates of the work	Contactable references

TEST TECHNICIANS				
Name	Testing carried out with GIS makes, types and ratings	Position held	Dates of the work	Contactable references

Note: If further space is required, the details can be provided on a separate sheets but provide adequate information to demonstrate the relevant knowledge and experience and the number of years that each resource possesses.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 G2: PREVIOUS COMPANY RELEVANT EXPERIENCE HISTORY

The following information must be provided by the tenderer at the time of tendering. The tenderer shall provide the details of previous proven competency and experience in the execution of work that is described in this document as per **clause 13.17.5** of the specification.

Failure to provide the relevant requested information below may result in the tenderer being considered non-responsive.

ITEM No.	Company Name	Description of Relevant work	Contact person	Contact Number	Period (Start- End dates)
1.					
2.					
3.					
4.					
5.					
6.					

If further space is required, the details can be provided on a separate sheet.

SIGNED ON BEHALF OF TENDERER:

SCHEDULE 13 G3: SAMPLE TEST REPORT


(Refer to clause 13.17.10 of the specification)

Attach sample report

SCHEDULE 13 G4: TEST PROCEDURE FOR ONLINE PARTIAL DISCHARGE TESTING

(Refer to clause 13.17.12 of the specification)

Attach detailed procedure

TENDER DOCUMENT GOODS AND SERVICES		 <div>CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD</div>	
SUPPLY CHAIN MANAGEMENT			
SCM - 542	Approved by Branch Manager: 03/04/2020	Version: 9.1	Page 204 of 66

TENDER NO: 124S/2023/24

TENDER DESCRIPTION: TERM TENDER FOR THE SUPPLY AND DELIVERY OF MAINTENANCE, REPAIR, UPGRADE AND REFURBISHMENT SERVICES FOR HIGH VOLTAGE GAS INSULATED SWITCHGEAR (GIS)

CONTRACT PERIOD: THIRTY-SIX (36) MONTHS FROM DATE OF COMMENCEMENT OF CONTRACT

VOLUME 3: DRAFT CONTRACT

TENDERER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual	
TRADING AS (if different from above)	

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

VOLUME 3: DRAFT CONTRACT

(7) SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract, referring to the National Treasury – Conditions of Contract (revised July 2010), are applicable to this Contract:

1. Definitions

Delete Clause 1.15 and substitute with the following

- 1.15 The word 'Goods' is to be replaced everywhere it occurs in the GCC with the phrase 'Goods and / or Services' which means all of the equipment, machinery, materials, services, products, consumables, etc. that the supplier is required to deliver to the purchaser under the contract. This definition shall also be applicable, as the context requires, anywhere where the words "supplies" and "services" occurs in the GCC.

Delete Clause 1.19 and substitute with the following

- 1.19 The word 'Order' is to be replaced everywhere it occurs in the GCC with the words 'Purchase Order' which means the official purchase order authorised and released on the purchaser's SAP System

Delete Clause 1.21 and substitute with the following:

- 1.21 'Purchaser' means the **City of Cape Town**. The address of the Purchaser is **12 Hertzog Boulevard, Cape Town, 8001**.

Add the following after Clause 1.25:

- 1.26 'Supplier' means any provider of goods and / or services with whom the contract is concluded
- 1.27 "Intellectual Property" means any and all intellectual property rights of any nature anywhere in the world whether registered, registerable or otherwise, including patents, trademarks, registered designs and domain names, applications for any of the foregoing, trade or business names, copyright and rights in the nature of copyright, design rights, rights in databases, know-how, trade secrets and any other intellectual property rights which subsist in computer software, computer programs, websites, documents, information, techniques, business methods, drawings, logos, instruction manuals, lists and procedures and particulars of customers, marketing methods and procedures and advertising literature, including the "look and feel" of any websites

3. General Obligations

Delete Clause 3.2 in its entirety and replace with the following clauses.

- 3.2 The parties will be liable to each other arising out of or in connection with any breach of the obligations detailed or implied in this contract, subject to clause 28.
- 3.3 All parties in a joint venture or consortium shall be jointly and severally liable to the purchaser in terms of this contract and shall carry individually the minimum levels of insurance stated in the contract, if any.
- 3.4 The parties shall comply with all laws, regulations and bylaws of local or other authorities having jurisdiction regarding the delivery of the goods and give all notices and pay all charges required by such authorities.
- 3.4.1 The parties agree that this contract shall also be subject to the CCT's Supply Chain Management Policy ('SCM Policy') that was applicable on the date the bid was advertised, **save that if the Employer adopts a new SCM Policy which contemplates that any clause therein would apply to the contract emanating from this tender, such clause shall also be applicable to that contract.** Please refer to this document contained on the CCT's website.
- 3.4.2 Abuse of the supply chain management system is not permitted and may result in cancellation of the contract, restriction of the supplier, and/or the exercise by the City of any other remedies available to it as described in the SCM Policy.

3.5 The **supplier** shall:

- 3.5.1 Arrange for the documents listed below to be provided to the Purchaser prior to the issuing of the order:
- a) Proof of Insurance (Refer to Clause 11) or Insurance Broker's Warrantee
 - b) Letter of good standing from the Compensation Commissioner, or a licensed compensation insurer (Refer to Clause 11)
 - c) Initial delivery programme
 - d) Other requirements as detailed in the tender documents
- 3.5.2 Only when notified of the acceptance of the bid by the issuing of the order, the supplier shall commence with and carry out the delivery of the goods in accordance with the contract, to the satisfaction, of the purchaser
- 3.5.3 Provide all of the necessary materials, labour, plant and equipment required for the delivery of the goods including any temporary services that may be required
- 3.5.4 Insure his workmen and employees against death or injury arising out of the delivery of the goods
- 3.5.5 Be continuously represented during the delivery of the goods by a competent representative duly authorised to execute instructions;
- 3.5.6 In the event of a loss resulting in a claim against the insurance policies stated in clause 11, pay the first amount (excess) as required by the insurance policy
- 3.5.7 Comply with all written instructions from the purchaser subject to clause 18
- 3.5.8 Complete and deliver the goods within the period stated in clause 10, or any extensions thereof in terms of clause 21
- 3.5.9 Make good at his own expense all incomplete and defective goods during the warranty period
- 3.5.10 Pay to the purchaser any penalty for delay as due on demand by the purchaser. The supplier hereby consents to such amounts being deducted from any payment to the supplier.
- 3.5.11 Comply with the provisions of the OHS Act & all relevant regulations.
- 3.5.12 Comply with all laws relating to wages and conditions generally governing the employment of labour in the Cape Town area and any applicable Bargaining Council agreements.
- 3.5.13 Deliver the goods in accordance with the contract and with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards.

3.6 The **purchaser** shall:

- 3.6.1 Issue orders for the goods required under this Contract. No liability for payment will ensue for any work done if an official purchase order has not been issued to the supplier.
- 3.6.2 Make payment to the **supplier** for the goods as set out herein.
- 3.6.3 Take possession of the goods upon delivery by the supplier.
- 3.6.4 Regularly inspect the goods to establish that it is being delivered in compliance with the contract.
- 3.6.5 Give any instructions and/or explanations and/or variations to the supplier including any relevant advice to assist the supplier to understand the contract documents.
- 3.6.6 Grant or refuse any extension of time requested by the supplier to the period stated in clause 10.
- 3.6.7 Inspect the goods to determine if, in the opinion of the purchaser, it has been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended.
- 3.6.8 Brief the supplier and issue all documents, information, etc. in accordance with the contract.

5. Use of contract documents and information; inspection, copyright, confidentiality, etc.

Add the following after clause 5.4:

- 5.5 Copyright of all documents prepared by the supplier in accordance with the relevant provisions of the copyright Act (Act 98 of 1978) relating to contract shall be vested in the purchaser. Where copyright is vested in the supplier, the purchaser shall be entitled to use the documents or copy them only for the purposes for which they are intended in regard to the contract and need not obtain the supplier's permission to copy for such use. Where copyright is vested in the purchaser, the supplier shall not be liable in any way for the use of any of the information other than as originally intended for the contract and the purchaser hereby indemnifies the supplier against any claim which may be made against him by any party arising from the use of such documentation for other purposes.

The ownership of data and factual information collected by the supplier and paid for by the purchaser shall, after payment, vest with the purchaser

- 5.6 Publicity and publication
The supplier shall not release public or media statements or publish material related to the services or contract within two (2) years of completion of the services without the written approval of the purchaser, which approval shall not be unreasonably withheld.
- 5.7 Confidentiality
Both parties shall keep all information obtained by them in the context of the contract confidential and shall not divulge it without the written approval of the other party.
- 5.8 Intellectual Property
- 5.8.1 The supplier acknowledges that it shall not acquire any right, title or interest in or to the Intellectual Property of the Employer.
- 5.8.2 The supplier hereby assigns to the Employer, all Intellectual Property created, developed or otherwise brought into existence by it for the purposes of the contract, unless the Parties expressly agree otherwise in writing.
- 5.8.3 The supplier shall, and warrants that it shall:
- 5.8.3.1 not be entitled to use the Employer's Intellectual Property for any purpose other than as contemplated in this contract;
- 5.8.3.2 not modify, add to, change or alter the Employer's Intellectual Property, or any information or data related thereto, nor may the supplier produce any product as a result of, including and/or arising from any such information, data and Intellectual Property, and in the event that it does produce any such product, the product shall be, and be deemed in law to be, owned by the Employer;
- 5.8.3.3 not apply for or obtain registration of any domain name, trademark or design which is similar to any Intellectual Property of the Employer;
- 5.8.3.4 comply with all reasonable directions or instructions given to it by the Employer in relation to the form and manner of use of the Employer Intellectual Property, including without limitation, any brand guidelines which the Employer may provide to the supplier from time to time;
- 5.8.3.5 procure that its employees, directors, members and contractors comply strictly with the provisions of clauses 5.8.3.1 to 5.8.3.3 above;
unless the Employer expressly agrees thereto in writing after obtaining due internal authority.
- 5.8.4 The supplier represents and warrants to the Employer that, in providing goods, services or both, as the case may be, for the duration of the contract, it will not infringe or make unauthorised use of the Intellectual Property rights of any third party and hereby indemnifies the Employer from any claims, liability, loss, damages, costs, and expenses arising from the infringement or unauthorised use by the supplier of any third party's Intellectual Property rights.
- 5.8.5 In the event that the contract is cancelled, terminated, ended or is declared void, any and all of the Employer's Intellectual Property, and any and all information and data related thereto, shall be immediately handed over to the Employer by the supplier and no copies thereof shall be retained by the supplier unless the Employer expressly and in writing, after obtaining due internal authority, agrees otherwise.

7. Performance Security

Delete clause 7.1 to 7.4 and replace with the following:

'Not Applicable. Tenderers must disregard **Form of Guarantee / Performance Security** and is not required to complete same.

8. Inspections, tests and analyses

Delete Clause 8.2 and substitute with the following:

- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the purchaser or an organisation acting on behalf of the purchaser.

10. Delivery and documents

Delete clauses 10.1 and 10.2 and replace with the following:

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The time for delivery of the goods shall be the date as stated on the order. Orders for the supply and delivery of goods may be raised up until the expiry of a framework agreement bid, provided that the goods can be delivered within 30 days of expiry of the framework contract. All orders, other than for the supply and delivery of goods, must be completed prior to the expiry of the contract period.
- 10.2 The purchaser shall determine, in its sole discretion, whether the goods have been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended. When the purchaser determines that the goods have been satisfactorily delivered, the purchaser must issue an appropriate certification, or written approval, to that effect. Invoicing may only occur, and must be dated, on or after the date of acceptance of the goods.

11. Insurance

Add the following after clause 11.1:

- 11.2 Without limiting the obligations of the supplier in terms of this contract, the supplier shall effect and maintain the following additional insurances:
- a) Public liability insurances, in the name of the supplier, covering the supplier and the purchaser against liability for the death of or injury to any person, or loss of or damage to any property, arising out of or in the course of this Contract, in an amount not less than **R20 million** for any single claim;
 - b) Motor Vehicle Liability Insurance, in respect of all vehicles owned and / or leased by the supplier, comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity;
 - c) Registration / insurance in terms of the Compensation for Occupational Injuries and Disease Act, Act 130 of 1993. This can either take the form of a certified copy of a valid Letter of Good Standing issued by the Compensation Commissioner, or proof of insurance with a licenced compensation insurer, from either the bidder's broker or the insurance company itself (see **Proof of Insurance / Insurance Broker's Warranty** section in document for a pro forma version).

In the event of under insurance or the insurer's repudiation of any claim for whatever reason, the CCT will retain its right of recourse against the supplier.

- 11.3 The supplier shall be obliged to furnish the CCT with proof of such insurance as the CCT may require from time to time for the duration of this Contract. Evidence that the insurances have been effected in terms of this clause, shall be either in the form of an insurance broker's warranty worded precisely as per the pro forma version contained in the **Proof of Insurance / Insurance Broker's Warranty** section of the document or copies of the insurance policies.

15. Warranty

Add to Clause 15.2:

- 15.2 This warranty for this contract shall remain valid for **twelve (12) months** after the goods have been delivered.

16. Payment

Delete Clause 16.1 in its entirety and replace with the following:

- 16.1 Payment of invoices will be made within 30 days of receiving the relevant invoice or statement, unless otherwise prescribed for certain categories of expenditure or specific contractual requirements in accordance with any other applicable policies of the City. All completed invoices for goods and services will be paid on a weekly basis and construction related invoices will be paid daily.

Notwithstanding anything contained above, the City shall not be liable for payment of any invoice that pre dates the date of delivery of any goods or services, or the date of certification for construction works.

Should the processing of a payment be delayed due to the late submission of documentation, any penalties imposed will be for the account of the functional business area. Any queries will also be referred to such line department.

No official shall commit Council to making a payment outside the scheduled payment terms

Delete Clause 16.2 in its entirety and replace with the following:

- 16.2 The supplier shall furnish the purchaser's Accounts Payable Department with an original tax invoice, clearly showing the amount due in respect of each and every claim for payment.

Add the following after clause 16.4

- 16.5 Notwithstanding any amount stated on the order, the supplier shall only be entitled to payment for goods actually delivered in terms of the Project Specification and Drawings, or any variations in accordance with clause 18. Any contingency sum included shall be for the sole use, and at the discretion, of the purchaser.

The CCT is not liable for payment of any invoice that pre-dates the date of delivery of the goods.

- 16.6 The purchaser will only make advanced payments to the supplier in strict compliance with the terms and details as contained on **Proforma Advanced Payment Guarantee** and only once the authenticity of such guarantee has been verified by the City's Treasury Department.

17. Prices

Add the following after clause 17.1

- 17.2 If as a result of an award of a contract beyond the original tender validity period, the contract execution will be completed beyond a period of twelve (12) months from the expiry of the original tender validity period, then the contract may be subject to contract price adjustment for that period beyond such twelve (12) months. An appropriate contract price adjustment formula will be determined by the Director: Supply Chain Management if such was not included in the bid documents.

- 17.3 If as a result of any extension of time granted the contract execution will be completed beyond a period of twelve (12) months from the expiry of the original tender validity period, then contract price adjustment may apply to that period beyond such twelve (12) months. An appropriate contract price adjustment formula will be determined by the Director: Supply Chain Management if such was not included in the bid documents.

- 17.4 The prices for the goods delivered and services performed shall be subject to contract price adjustment as contained in Schedule 8.

- 17.5 If price adjustment for variations in the cost of plant and materials imported from outside of South Africa is provided for in the contract, such adjustment shall be based on the information contained on the schedule titled "**Price Basis for Imported Resources**" and as below. For the purposes of this clause the Rand value of imported Plant and Materials inserted on the schedule titled "**Price Basis for Imported Resources**" (column (F)) shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate quoted by **CCT's** main banker, NEDBANK, on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column(B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E)).

17.5.1 Adjustment for variations in rates of exchange:

- (a) The value in foreign currency inserted in column (A) shall be subject to clause (h) below when recalculating the Rand value.
- (b) The rate of exchange inserted in column (B) shall be the closing spot selling rate quoted by Council's main banker, NEDBANK, on the Base Date, rounded to the second decimal place, subject to sub-paragraph (c) below.
- (c) If the rate of exchange inserted by the Tenderer differs from the NEDBANK rate referred to above, then the NEDBANK rate shall apply and the Rand value in columns (C) and (F) shall be recalculated accordingly, without altering the price in the Price Schedule for the relevant items.
- (d) If a tender from a supplier or sub-contractor provides for variations in rates of exchange, the Supplier may **only** claim for variations in rates of exchange if he binds the supplier or sub-contractor to the same provision to take out forward cover as described in sub-paragraph (e) below.
- (e) The Supplier (or sub-contractor) shall within five working days from the date of placing a firm order on an overseas supplier, cover or recover forward by way of a contract with a bank which is an authorised foreign exchange dealer, the foreign exchange component of the cost of any imported Plant and Materials inserted by the Tenderer on the scheduled titled "**Price Basis for Imported Resources**".
- (f) When the Supplier (or sub-contractor) so obtains forward cover, the Supplier shall immediately notify the CCT of the rate obtained and furnish the CCT with a copy of the foreign exchange contract note.
- (g) Based on the evidence provided in sub-paragraph (f) above, the value in Rand inserted in column (C) of on the schedule titled "**Price Basis for Imported Resources**" shall be recalculated using the forward cover rate obtained, and any increase or decrease in the Rand value defined in this clause shall be adjusted accordingly, subject to sub-paragraph (h) below.
- (h) The adjustments shall be calculated upon the value in foreign currency in the Supplier's (or sub-contractor's) **forward cover contract**, provided that, should this value exceed the value in foreign currency inserted in column (A) of on the schedule titled "**Price Basis for Imported Resources**", then the value in column (A) shall be used.

17.5.2 Adjustment for variations in customs surcharge and customs duty

- (a) Any increase or decrease in the Rand value between the amounts of Customs Surcharge and Customs Duty inserted in on the schedule titled "**Price Basis for Imported Resources**" and those amounts actually paid to the Customs and Excise Authorities, which are due to changes in the percentage rates applicable or to the foreign exchange rate used by the authorities, shall be adjusted accordingly.
- (b) The Tenderer shall state the Customs Duty Tariff Reference applicable to each item and the Supplier shall advise the CCT's Agent of any changes which occur.

17.5.3 Adjustment for variation in labour and material Costs

If the prices for imported Plant and Materials are not fixed, the Supplier shall in his Tender specify the formula for calculating Contract Price Adjustments normally used in the country of manufacture and the indices and relative proportions of labour and material on which his Tender prices are based. Evidence of the indices applicable shall be provided with each claim. The indices applicable 42 days before contractual dispatch date from the factory will be used for the purposes of Contract Price Adjustment.

Failure to specify a formula in the Tender shall mean that the prices are fixed or shall be deemed to be fixed.

18. Contract Amendments

Delete the heading of clause 18 and replace with the following:

18. Contract Amendments and Variations

Add the following to clause 18.1:

Variations means changes to the goods, extension of the duration or expansion of the value of the

contract that the purchaser issues to the supplier as instructions in writing, subject to prior approval by the purchaser's delegated authority. Should the supplier deliver any goods not described in a written instruction from the purchaser, such work will not become due and payable until amended order has been issued by the purchaser.

20. Subcontracts

Add the following after clause 20.1:

- 20.2 The supplier shall be liable for the acts, defaults and negligence of any subcontractor, his agents or employees as fully as if they were the acts, defaults or negligence of the supplier.
- 20.3 Any appointment of a subcontractor shall not amount to a contract between the CCT and the subcontractor, or a responsibility or liability on the part of the CCT to the subcontractor and shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

Delete Clause 21.2 in its entirety and replace with the following:

- 21.2 If at any time during the performance of the contract the supplier or its sub-contractors should encounter conditions beyond their reasonable control which impede the timely delivery of the goods, the supplier shall notify the purchaser in writing, within 7 Days of first having become aware of these conditions, of the facts of the delay, its cause(s) and its probable duration. As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation, and may at his discretion extend the time for delivery.

Where additional time is granted, the purchaser shall also determine whether or not the supplier is entitled to payment for additional costs in respect thereof. The principle to be applied in this regard is that where the purchaser or any of its agents are responsible for the delay, reasonable costs shall be paid. In respect of delays that were beyond the reasonable control of both the supplier and the purchaser, additional time only (no costs) will be granted.

The purchaser shall notify the supplier in writing of his decision(s) in the above regard.

- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of goods from a national department, provincial department, or a local authority.

22. Penalties

Delete clause 22.1 and replace with the following:

- 22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum as stated herein for each day of the delay until actual delivery or performance.

The penalty for this contract shall be **0.1% per day, up to a maximum penalty of 5% of purchase order value**

- 22.2 The purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, financial penalties as contained on the **Preference Schedule** relating to breaches of the conditions upon which preference points were awarded.

23. Termination for default

Delete the heading of clause 23 and replace with the following:

23. Termination

Add the following to the end of clause 23.1:

if the supplier fails to remedy the breach in terms of such notice

Add the following after clause 23.7:

- 23.8 In addition to the grounds for termination due to default by the supplier, the contract may also be terminated:
- 23.8.1 Upon the death of the supplier who was a Sole Proprietor, or a sole member of a Close Corporation, in which case the contract will terminate forthwith.
- 23.8.2 The parties by mutual agreement terminate the contract.
- 23.8.3 If an Order has been issued incorrectly, or to the incorrect recipient, the resulting contract may be terminated by the purchaser by written notice
- 23.8.4 If a material irregularity vitiates the procurement process leading to the conclusion of the contract, rendering the procurement process and the conclusion of the resulting contract unfair, inequitable, non-transparent, uncompetitive or not cost-effective, provided the City Manager follows the processes as described in the purchasers SCM Policy.
- 23.8.5 After providing notice to the supplier, if the implementation of the contract may result in reputational risk or harm to the City as a result of (inter alia):
- 23.8.5.1 reports of poor governance and/or unethical behaviour;
 - 23.8.5.2 association with known family of notorious individuals;
 - 23.8.5.3 poor performance issues, known to the Employer;
 - 23.8.5.4 negative social media reports; or
 - 23.8.5.5 adverse assurance (e.g. due diligence) report outcomes..
- 23.9 If the contract is terminated in terms of clause 23.8, all obligations that were due and enforceable prior to the date of the termination must be performed by the relevant party.

26. Termination for insolvency

Delete clause 26.1 and replace with the following:

- 26.1 The purchaser may make either of the following elections to ensure its rights are protected and any negative impact on service delivery is mitigated:
- 26.1.1 accept a supplier proposal (via the liquidator) to render delivery utilising the appropriate contractual mechanisms; or
- 26.1.2 terminate the contract, as the liquidator proposed supplier is deemed unacceptable to the purchaser, at any time by giving written notice to the supplier (via the liquidator).
- 26.2 Termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

Amend clause 27.1 as follows:

- 27.1 If any dispute or difference of any kind whatsoever, with the exception of termination in terms of clause 23.1(c), arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.

Delete Clause 27.2 in its entirety and replace with the following:

- 27.2 Should the parties fail to resolve any dispute by way of mutual consultation, either party shall be entitled to refer the matter for mediation before an independent and impartial person appointed by the City Manager in accordance with Regulation 50(1) of the Local Government: Municipal Finance Management Act, 56 of 2003 – Municipal Supply Chain Management Regulations (Notice 868 of 2005). Such referral shall be done by either party giving written notice to the other of its intention to commence with mediation. No mediation may be commenced unless such notice is given to the other party.

Irrespective whether the mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and share the costs of the mediator and related costs equally.

The mediator shall agree the procedures, representation and dates for the mediation process with the parties. The mediator may meet the parties together or individually to enable a settlement.

Where the parties reach settlement of the dispute or any part thereof, the mediator shall record such agreement and on signing thereof by the parties the agreement shall be final and binding.

Save for reference to any portion of any settlement or decision which has been agreed to be final and binding on the parties, no reference shall be made by or on behalf of either party in any subsequent court proceedings, to any outcome of an amicable settlement by mutual consultation, or the fact that any particular evidence was given, or to any submission, statement or admission made in the course of amicable settlement by mutual consultation or mediation.

28. Limitation of Liability

Delete clause 28.1 (b) and replace with the following:

- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the sums insured in terms of clause 11 in respect of insurable events, or where no such amounts are stated, to an amount equal to twice the contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

Add the following after clause 28.1:

28.2 Without detracting from, and in addition to, any of the other indemnities in this contract, the supplier shall be solely liable for and hereby indemnifies and holds harmless the purchaser against all claims, charges, damages, costs, actions, liability, demands and/or proceedings and expense in connection with:

- a) personal injury or loss of life to any individual;
- b) loss of or damage to property;

arising from, out of, or in connection with the performance by the supplier in terms of this Contract, save to the extent caused by the gross negligence or wilful misconduct of the purchaser.

28.3 The supplier and/or its employees, agents, concessionaires, suppliers, sub-contractors or customers shall not have any claim of any nature against the purchaser for any loss, damage, injury or death which any of them may directly or indirectly suffer, whether or not such loss, damages, injury or death is caused through negligence of the purchaser or its agents or employees.

28.4 Notwithstanding anything to the contrary contained in this Contract, under no circumstances whatsoever, including as a result of its negligent (including grossly negligent) acts or omissions or those of its servants, agents or contractors or other persons for whom in law it may be liable, shall any party or its servants (in whose favour this constitutes a *stipulatio alteri*) be liable for any indirect, extrinsic, special, penal, punitive, exemplary or consequential loss or damage of any kind whatsoever, whether or not the loss was actually foreseen or reasonably foreseeable), sustained by the other party, its directors and/or servants, including but not limited to any loss of profits, loss of operation time, corruption or loss of information and/or loss of contracts.

28.5 Each party agrees to waive all claims against the other insofar as the aggregate of compensation which might otherwise be payable exceeds the aforesaid maximum amounts payable.

31. Notices

Delete clauses 31.1 and 31.2 and replace with the following:

31.1 Any notice, request, consent, approvals or other communications made between the Parties pursuant to the Contract shall be in writing and forwarded to the addresses specified in the contract and may be given as set out hereunder and shall be deemed to have been received when:

- a) hand delivered – on the working day of delivery
- b) sent by registered mail – five (5) working days after mailing
- c) sent by email or telefax – one (1) working day after transmission

32. Taxes and Duties

Delete the final sentence of 32.3 and replace with the following:

In this regard, it is the responsibility of the supplier to submit documentary evidence in the form of a valid Tax Clearance Certificate issued by SARS to the CCT at the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5).

Add the following after clause 32.3:

32.4 The **VAT registration** number of the City of Cape Town is **4500193497**.

ADDITIONAL CONDITIONS OF CONTRACT

Add the following Clause after Clause 34:

35. Reporting Obligations.

35.1 The supplier shall complete, sign and submit with each delivery note, all the documents as required in the Specifications. Any failure in this regard may result in a delay in the processing of any payments.

36. Protection of Personal Information

- 36.1 The Supplier acknowledges that, for the purposes of this agreement, they may come into contact with or have access to personal information and other information that may be classified or deemed as private or confidential and for which Purchaser is responsible in terms of Protection of Personal Information Act ("POPIA"). Such personal information may also be deemed or considered as private and confidential as it relates to POPIA.
- 36.2 The Supplier agrees that they will at all times comply with POPIA and Purchaser's Privacy Notice, and that it shall only collect, use and process personal information it comes into contact with pursuant to this agreement in a lawful manner, and only to the extent required to execute the services, or to provide the goods and to perform their obligations in terms of the service level agreement.
- 36.3 The Supplier agrees that it shall put in place, and at all times maintain, appropriate physical, technological and contractual security measures to ensure the protection and confidentiality of the personal information that it, or its employees, its contractors or other authorised individuals comes into contact in relation to the service level agreement
- 36.4 The supplier agrees that it shall notify the Purchaser immediately where there are reasonable grounds to believe that the personal information of a data subject has been accessed or acquired by any unauthorised person.
- 36.5 Unless so required by law, the Supplier agrees that it shall treat the personal information as confidential and further not disclose any personal information as defined in POPIA to any third party without the prior written consent of the Purchaser.
- 36.6 The Supplier hereby indemnifies and holds the Purchaser harmless against all claims, losses, damages and costs of whatsoever nature suffered by the Purchaser arising from or in relation to the Supplier's (and/or its employees', agents' and sub-contractors') non-compliance with applicable data protection laws and/or other legislation.
- 36.7 The Supplier agrees that the Purchaser may conduct regular data protection audits on the Supplier and undertakes to give its full co-operation in this regard.

37. Performance Monitoring

- 37.1 As required by section 116(2)(b) of the Local Government: Municipal Financial Management Act 56 of 2003, the City shall monitor the performance of the supplier on at least a monthly basis, and the supplier agrees to provide the City with its full cooperation in this regard.

(8) GENERAL CONDITIONS OF CONTRACT

(National Treasury - General Conditions of Contract (revised July 2010))

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1. Definitions

1. The following terms shall be interpreted as indicated:
 - 1.1 'Closing time' means the date and hour specified in the bidding documents for the receipt of bids.
 - 1.2 'Contract' means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
 - 1.3 'Contract price' means the price payable to the supplier under the contract for the full and proper performance of his or her contractual obligations.
 - 1.4 'Corrupt practice' means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
 - 1.5 'Countervailing duties' are imposed in cases in which an enterprise abroad is subsidised by its government and encouraged to market its products internationally.

- 1.6 'Country of origin' means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognised new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 'Day' means calendar day.
- 1.8 'Delivery' means delivery in compliance with the conditions of the contract or order.
- 1.9 'Delivery ex stock' means immediate delivery directly from stock actually on hand.
- 1.10 'Delivery into consignee's store or to his site' means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
- 1.11 'Dumping' occurs when a private enterprise abroad markets its goods on its own initiative in the RSA at lower prices than that of the country of origin, and which action has the potential to harm the local industries in the RSA.
- 1.12 'Force majeure' means an event beyond the control of the supplier, not involving the supplier's fault or negligence, and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 'Fraudulent practice' means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 'GCC' means the General Conditions of Contract.
- 1.15 'Goods' means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 'Imported content' means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and
which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 'Local content' means that portion of the bidding price which is not included in the imported content, provided that local manufacture does take place.
- 1.18 'Manufacture' means the production of products in a factory using labour, materials, components and machinery, and includes other, related value-adding activities.
- 1.19 'Order' means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 'Project site', where applicable, means the place indicated in bidding documents.
- 1.21 'Purchaser' means the organisation purchasing the goods.
- 1.22 'Republic' means the Republic of South Africa.
- 1.23 'SCC' means the Special Conditions of Contract.

1.24 'Services' means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance, and other such obligations of the supplier covered under the contract.

1.25 'Written' or 'in writing' means handwritten in ink or any form of electronic or mechanical writing.

2. Application

2.1 These general conditions are applicable to all bids, contracts and orders, including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable, a non-refundable fee for documents may be charged.

3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za.

4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for the purposes of such performance.

5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1, except for purposes of performing the contract.

5.3 Any document, other than the contract itself, mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights

6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from the use of the goods or any part thereof by the purchaser.

7. Performance Security

7.1 Within 30 (thirty) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in the SCC.

- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.2 The performance security shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the purchaser, and shall be in one of the following forms:
- a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - b) a cashier's or certified cheque.
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than 30 (thirty) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in the SCC.

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organisation acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention of such is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier, who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal, the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of the GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in the SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in the SCC.

10.2 Documents to be submitted by the supplier are specified in the SCC.

11. Insurance

11.1 The goods supplied under the contract shall be fully insured, in a freely convertible currency, against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental Services

13.1 The supplier may be required to provide any or all of the following services, including additional services (if any) specified in the SCC:

- (a) performance or supervision of on-site assembly, and/or commissioning of the supplied goods;
- (b) furnishing of tools required for the assembly and/or maintenance of the supplied goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
- (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
- (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 As specified in the SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications), or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for 12 (twelve) months after the goods, or any portion thereof, as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or

for 18 (eighteen) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in the SCC.

15.3 The purchaser shall notify the supplier promptly, in writing, of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in the SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in the SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in the SCC.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of any other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than 30 (thirty) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated in the SCC.

17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices tendered by the supplier in his bid, with the exception of any price adjustments authorized in the SCC or in the purchaser's request for bid validity extension, as the case may be.

18. Contract Amendments

18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

19. Assignment

19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

20. Subcontracts

20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2 If at any time during the performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his or her discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.

- 21.4 The right is reserved to procure, outside of the contract, small quantities of supplies; or to have minor essential services executed if an emergency arises, or the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.
- 21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.
- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and, without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

- 22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services, using the current prime interest rate, calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
 - (b) if the supplier fails to perform any other obligation(s) under the contract; or
 - (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.
- 23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.
- 23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than 14 (fourteen) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated 14 (fourteen) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.
- 23.5 Any restriction imposed on any person by the Accounting Officer/Authority will, at the discretion of the Accounting Officer/Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person is or was, in the opinion of the Accounting Officer/Authority, actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within 5 (five) working days of such imposition, furnish the National Treasury with the following information:
- (i) the name and address of the supplier and/or person restricted by the purchaser;
 - (ii) the date of commencement of the restriction;
 - (iii) the period of restriction; and
 - (iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period of not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction, and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidised import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall, on demand, be paid forthwith by the contractor to the State, or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he or she delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him or her.

25. Force majeure

25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if, and to the extent that, his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

25.2 If a force majeure situation arises, the supplier shall notify the purchaser promptly, in writing, of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.

27.2 If, after 30 (thirty) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 Notwithstanding any reference to mediation and/or court proceedings herein,
(a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and

(b) the purchaser shall pay the supplier any monies due to the supplier.

28. Limitation of Liability

28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to

Clause 6:

- (a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
- (b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

30. Applicable Law

30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in the SCC.

31. Notices

31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail, and any other notice to him shall be posted by ordinary mail, to the address furnished in his bid or to the address notified later by him in writing; and such posting shall be deemed to be proper service of such notice.

31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and Duties

32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, licence fees, and other such levies imposed outside the purchaser's country.

32.2 A local supplier shall be entirely responsible for all taxes, duties, licence fees, etc., incurred until delivery of the contracted goods to the purchaser.

32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

34 Prohibition of Restrictive practices

34.1 In terms of section 4 (1) (b) (iii) of the Competition Act, Act 89 of 1998, as amended, an agreement between or concerted practice by firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder(s) is/are or a contractor(s) was/were involved in collusive bidding (or bid rigging).

34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has/have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act, Act 89 of 1998.

34.3 If a bidder(s) or contractor(s) has/have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other

remedy provided for, invalidate the bid(s) for such item(s) offered, and/or terminate the contract in whole or part, and/or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding 10 (ten) years and/or claim damages from the bidder(s) or contractor(s) concerned.

(9) FORM OF GUARANTEE / PERFORMANCE SECURITY

FORM OF GUARANTEE / PERFORMANCE SECURITY

GUARANTOR DETAILS AND DEFINITIONS

"Guarantor" means:

Physical address of Guarantor:

"Supplier" means:

"Contract Sum" means: The accepted tender amount (INCLUSIVE OF VAT) of R

Amount in words:

"Guaranteed Sum" means: The maximum amount of R

Amount in words:

"Contract" means: The agreement made in terms of the Form of Offer and Acceptance for tender no ____: ____ and such amendments or additions to the contract as may be agreed in writing between the parties.

PERFORMANCE GUARANTEE

1. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
2. The Guarantor's period of liability shall be from and including the date of issue of this Guarantee/Performance Security up to and including the termination of the Contract or the date of payment in full of the Guaranteed Sum, whichever occurs first.
3. The Guarantor hereby acknowledges that:
 - 3.1 any reference in this Guarantee/Performance to "Contract" is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
 - 3.2 its obligation under this Guarantee/Performance Security is restricted to the payment of money.
4. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the City of Cape Town the sum due and payable upon receipt of the documents identified in 4.1 to 4.2:
 - 4.1 A copy of a first written demand issued by the City of Cape Town to the Supplier stating that payment of a sum which is due and payable has not been made by the Supplier in terms of the Contract and failing such payment within seven (7) calendar days, the City of Cape Town intends to call upon the Guarantor to make payment in terms of 4.2;
 - 4.2 A first written demand issued by the City of Cape Town to the Guarantor at the Guarantor's physical address with a copy to the Supplier stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum has still not been paid.
5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the City of Cape Town the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the City of Cape Town to the Guarantor at the Guarantor's physical address calling up this Guarantee / Performance Security, such demand stating that:
 - 5.1 the Contract has been terminated due to the Supplier's default and that this Guarantee/Performance Security is called up in terms of 5; or

5.2 a provisional or final sequestration or liquidation court order has been granted against the Supplier and that the Guarantee/Performance Guarantee is called up in terms of 5; and

5.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.

6. It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.
7. Where the Guarantor has made payment in terms of 5, the City of Cape Town shall upon the termination date of the Contract, submit an expense account to the Guarantor showing how all monies received in terms of this Guarantee/Performance Security have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Guarantee/Performance Security shall bear interest at the prime overdraft rate of the City of Cape Town's bank compounded monthly and calculated from the date payment was made by the Guarantor to the City of Cape Town until the date of refund.
8. Payment by the Guarantor in terms of 4 or 5 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
9. The City of Cape Town shall have the absolute right to arrange its affairs with the Supplier in any manner which the City of Cape Town may deem fit and the Guarantor shall not have the right to claim his release from this Guarantee /Performance Security on account of any conduct alleged to be prejudicial to the Guarantor.
10. The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
11. This Guarantee/Performance Security is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee / Performance Security shall be returned to the Guarantor after it has expired.
12. This Guarantee/Performance Security, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.
13. Where this Guarantee/Performance Security is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

ANNEXURE

LIST OF APPROVED FINANCIAL INSTITUTIONS

The following financial institutions are currently (as at 28 February 2023) approved for issue of contract guarantees to the City:

1.1 National Banks

ABSA Bank Limited
Firststrand Bank Limited
Investec Bank Limited
Nedbank Limited
Standard Bank of South Africa Limited

1.2 International Banks (with branches in South Africa)

Barclays Bank PLC
Citibank NA
Credit Agricole Corporate and Investment Bank
HSBC Bank PLC
JPMorgan Chase Bank
Societe Generale
Standard Chartered Bank

1.3 Insurance Companies

American International Group Inc (AIG)
Bryte Insurance Company Limited
Coface SA
Compass Insurance Company Limited
Credit Guarantee Insurance Corporation of Africa Limited
Guardrisk Insurance Company Limited
Hollard Insurance Company Limited
Infiniti Insurance Limited
Lombard Insurance Company Limited
Mutual and Federal Risk Financing Limited
New National Assurance Company Limited
PSG Konsult Ltd (previously Absa Insurance)
Regent Insurance Company Limited
Renasa Insurance Company Limited
Santam Limited

(10) FORM OF ADVANCE PAYMENT GUARANTEE

Not Applicable.

(10.1) ADVANCE PAYMENT SCHEDULE
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Not applicable.

(11) OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

AGREEMENT MADE AND ENTERED INTO BETWEEN THE CITY OF CAPE TOWN (HEREINAFTER CALLED THE "CCT") AND

..... ,
(Supplier/Mandatory/Company/CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 85 OF 1993 AS AMENDED.

I, , representing

..... , as an employer
in its own right, do hereby undertake to ensure, as far as is reasonably practicable, that all work will be performed, and all equipment, machinery or plant used in such a manner as to comply with the provisions of the Occupational Health and Safety Act (OHSA) and the Regulations promulgated thereunder.

I furthermore confirm that I am/we are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/We are insured with an approved licensed compensation insurer.

COID ACT Registration Number:

OR Compensation Insurer: Policy No.:

I undertake to appoint, where required, suitable competent persons, in writing, in terms of the requirements of OHSA and the Regulations and to charge him/them with the duty of ensuring that the provisions of OHSA and Regulations as well as the Council's Special Conditions of Contract, Way Leave, Lock-Out and Work Permit Procedures are adhered to as far as reasonably practicable.

I further undertake to ensure that any subcontractors employed by me will enter into an occupational health and safety agreement separately, and that such subcontractors comply with the conditions set.

I hereby declare that I have read and understand the Occupational Health and Safety Specifications contained in this tender and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan submitted and approved in terms thereof.

Signed aton the.....day of.....20....

Witness

Mandatory

Signed at on the.....day of.....20

Witness

for and on behalf of
City of Cape Town

(12) INSURANCE BROKER'S WARRANTY (PRO FORMA)

Logo

Letterhead of supplier's Insurance Broker

Date _____

CITY OF CAPE TOWN
City Manager
Civic Centre
12 Hertzog Boulevard
Cape Town
8000

Dear Sir

TENDER NO.: 2013/14

TENDER DESCRIPTION:

NAME OF SUPPLIER: _____

I, the undersigned, do hereby confirm and warrant that all the insurances required in terms of the abovementioned contract have been issued and/or in the case of blanket/umbrella policies, have been endorsed to reflect the interests of the CITY OF CAPE TOWN with regard to the abovementioned contract, and that all the insurances and endorsements, etc., are all in accordance with the requirements of the contract.

I furthermore confirm that all premiums in the above regard have been paid.

Yours faithfully

Signed: _____

For: _____ (Supplier's Insurance Broker)

(13) SPECIFICATION(S)

13.1 SCOPE OF SPECIFICATION

This specification provides for the maintenance and/or repairs, refurbishment and upgrade of the High Voltage (HV) Gas Insulated Switchgear (GIS) as well as online partial discharge testing on HV GIS as specified in the following sections of this document. It includes inspection, testing of the equipment, supply and delivery of specialised services and materials suitable for the work in accordance with the Original Equipment Manufacturers (OEM) approved or certified equivalent. The specification is detailed in the following sections:

- Section A covers maintenance and/or repairs, refurbishment and upgrade of Siemens HV GIS
- Section B covers maintenance and/or repairs, refurbishment and upgrade of Holec HV GIS
- Section C covers maintenance and/or repairs, refurbishment and upgrade of ABB HV GIS
- Section D covers maintenance and/or repairs, refurbishment and upgrade of Hitachi HV GIS
- Section E covers maintenance and/or repairs, refurbishment and upgrade of Areva HV GIS
- Section F covers maintenance and/or repairs, refurbishment and upgrade of XD HV GIS
- Section G covers online partial discharge testing of HV GIS

13.2 TYPICAL ABBREVIATIONS

HV = High Voltage.

OEM = Original Equipment Manufacturer.

OHS = Occupational Health and Safety Act.

NRS = National Regulatory Standard for High Voltage Systems.

CCT = City of Cape Town.

GIS = Gas Insulated Switchgear.

SF₆ = Sulfur hexafluoride

13.3 DEFINITIONS

Bay – Bay refers to the area occupied by one Circuit Breaker and associated equipment used to protect one feeders/line/bus coupler in a double busbar scheme. The bay names referred to in pricing schedule are based on the current network configuration and may change should the network be configured in the future.

Compartment – Compartment refers to a gas tight volume bounded by enclosure walls and gas tight isolating barriers.

13.4 APPLICABLE STANDARDS SPECIFICATIONS

13.4.1 The following documents contain provisions that, whether referenced in the text or not, constitute requirements of this specification. At the time of publication, the editions indicated were valid. All standards and specifications are subject to revision, and parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

13.4.2 Note that the National equivalent of IEC standards are generally the same but may include specific

variations to be taken into account. Information on currently valid national and international standards can be obtained from the South African Bureau of Standards. The following standard specifications as revised from time to time shall form part of this Specification.

Standard/Document	Description
BS 159	Specification for high-voltage busbars and busbar connections
BS 1858	Electrical cables
BS 6121	Mechanical cable glands
BS EN 10143	Continuously hot-dip metal coated steel sheet and strip
BS EN 13601	Copper and copper alloys
BS EN 22063	Thermal spraying - zinc, aluminium and their alloys
IEC 60034	Rotating electrical machines
IEC 60051	Direct acting indicating analogue electrical measuring instruments and their accessories
IEC 60068-2	Environmental testing
IEC 60071-1	Insulation co-ordination
IEC 60085	Electrical insulation - Thermal classification
IEC 60099-4	Surge arresters: Metal-oxide surge arresters without gaps for a.c. systems
IEC 60112	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions
IEC 60158	Low voltage control gear
IEC 60255	Electrical relays
IEC 60270	High-Voltage Test Techniques – Partial Discharge Measurements
IEC 60364	Fundamental principles, assessment of general characteristics, definitions
IEC 60376	Specification of technical grade Sulfur hexafluoride SF ₆ and complementary gasses to be used in its mixtures for use in electrical equipment
IEC 60455	Resin based reactive compounds used for electrical insulation
IEC 60480	Specifications for the reuse of Sulfur hexafluoride SF ₆ and its mixtures in electrical equipment
IEC 60521	Class 0.5, 1 and 2 alternating-current watt-hour meters
IEC 60688	Electrical measuring transducers for converting a.c. electrical quantities into d.c. electrical quantities
IEC 60840	Tests for power cables with extended insulation for rated voltages above 30 kV (Um = 36 kV) up to 150 kV (Um = 170 kV)
IEC 60870-5-1 to 5	Telecontrol and systems - Transmission protocols
IEC 60870-5-101	Companion standard for basic telecontrol tasks
IEC 60870-5-102	Companion standard for transmission of integrated totals in electric power systems
IEC 60870-5-103	Companion standard for the informative interface of protection equipment
IEC 60870-5-104	Network access for IEC 60870-5-101 using standard transport profiles
IEC 61000-2	Electrostatic discharge immunity tests
IEC 61000-3	Electromagnetic interference immunity tests
IEC 61000-4	Fast transient immunity tests
IEC 61000-5	Surge immunity test
IEC 61187	Electrical and electronic measuring equipment, documentation
IEC 61238-1	Compression and mechanical connectors for power cables for rated voltages up to 30 kV (Um = 36 kV)
IEC 61850	Communication networks and systems for power utility Control – ALL PARTS
IEC 61869-1	Instrument Transformers: General requirements
IEC 61869-2	Instrument Transformers: Additional requirements for Current Transformers
IEC 61869-3	Instrument Transformers: Additional requirements for inductive Voltage Transformers
IEC 62271-1	Common specifications for High-voltage switchgear and control gear

IEC 62271-4 Ed. 1	High-voltage switchgear and control gear: Handling procedures for Sulfur hexafluoride (SF6) and its mixtures
IEC 62271-203	High-voltage switchgear and control gear: HV metal enclosed switchgear for rated voltage of 52 kV and above
IEC 62271-205	High-voltage switchgear and control gear: Compact switchgear assemblies for rated voltages above 52 kV
IEC 62271-209	Cable connections for gas insulated metal enclosed switchgear for rated voltages of 145 kV and above
IEEE std. 80-2000	Guide for Safety in AC Substation Grounding
SANS 32	Internal and/or external protective coatings for steel tubes Electricity metering equipment (AC) – General requirements, test and test conditions – Part 11: Metering equipment
SANS 1652	Battery chargers – industrial type
SANS 60137	Insulated bushings for alternating voltages above 1 kV
SANS 60529	Degrees of protection provided by enclosures (IP Code)
SANS 61089	Round wire concentric lay overhead electrical stranded conductors
SANS 62271-100	High-voltage switchgear and control gear: Alternating current disconnectors and earthing switches
SANS 62271-102	High-voltage switchgear and control gear: High voltage alternating current circuit-breakers
SANS 62271-110	High-voltage switchgear and control gear: Inductive load switching
SANS 62271-203	High-voltage switchgear and control gear Part 203: Gas insulated metal enclosed switchgear for rated voltages above 52 kV
SANS 62271-301	High-voltage switchgear and control gear: Dimensional standardisation of terminals
SANS 62271-310	High-voltage switchgear and control gear: Electrical endurance testing for circuit breakers of rated voltage 72,5 kV and above
NRS 029	Current transformers for rated a.c. voltages from 3,6 kV up to and including 420 kV (maximum voltage for equipment)
NRS 030	Inductive voltage transformers for rated a.c. voltages from 3,6 kV up to and including 145 kV for indoor and outdoor application
NRS 040	High Voltage Operating Regulations
NRS 060	Code of practice for clearances for electrical systems with rated voltages up to and including 145 kV, for the safety of persons
NRS 087	Guidelines for the management of SF6 (Sulfur hexafluoride) for use in electrical equipment

13.4.3 Reference to a particular standard or recommendation in this Specification does not relieve the Contractor of the necessity of the Works complying with other relevant standards or recommendations.

13.4.4 All maintenance and/or repair, OEM recommended upgrade and refurbishment work shall fully meet and comply with the requirements of the Occupational Health and Safety Act (Act 85 of 1993) and the Construction Regulations 2003 issued in terms of Section 43 of the Act, Standards South Africa (a Division of the South African Bureau of Standards (SANS) and all other statutory regulations and laws insofar as they may apply to an electrical installation of the types contemplated.

13.4.5 All work shall be executed in accordance with the OEM advised procedures and practices, and shall include all such inspections, measurements and tests as may be required to verify the work undertaken, and to ensure the ongoing serviceability of the GIS switchgear.

13.4.6 See also the requirements detailed in the Environmental Management and Health and Safety Specifications included in this contract.

13.5 BACKGROUND INFORMATION AND OVERVIEW OF THE WORKS

The City of Cape Town's Energy Directorate: Electricity Generation and Distribution Department requires that its High Voltage Gas Insulated Switchgear (GIS) installed at a number of switching stations be repaired, maintained and tested in order to restore the availability and reliability to acceptable levels, and to extend the useful service life of the switchgear.

The work shall comprise of maintenance as per OEM guidelines, repairs and/or OEM recommended upgrades and refurbishment as well online partial discharge tests which will be carried out as and when required.

13.6 LOCATION OF THE WORKS (SITE)

The specified work is to be executed at the City of Cape Town HV substations (also known as Switching Stations) located in the City of Cape Town metropolitan area as indicated in Table 1 below.

TABLE 1: SITE LOCATIONS

Section A: Siemens High Voltage GIS	
Substation Name	Address
Athlone	Bhunga Ave, Kewtown, Cape Town, 7764
Constantia	57 Southern Cross Drive, Constantia, Cape Town, 7806
Eisleben	77 Cnr Silversands Ave & Eisleben Rd, Mitchells Plain, Cape Town, 7802
Gugulethu	2 Govan Mbeki Rd, Gugulethu, Cape Town, 7750
Mitchells Plain	Portulaca St, Lentegeur, Cape Town, 7786
Montague Gardens	N1 Via Goodwood Acacia Park
Muizenberg	Cnr Vrygrond Ave & Prince George Dr, Vrygrond, Cape Town, 7945
Newlands	Palmyra Road, Newlands, Cape Town
Philippi	Lansburg Rd & Greenturf Rd, Hanover Park, Cape Town, 7782
Oakdale	Bloemhof Electrical Depot (City of Cape Town), Bloemhof Rd, Eikenbosch, Cape Town, 7530
Maitland	FW De Klerk Boulevard Ramp next to N1
Paardevelei	Off Old Paardevelei Road, Helderberg
Newfields	Lodewyk Rd, Newfields, Cape Town, 7780
Atlantis	Cnr Neil Hare Road & Mission Express Way
Section B: Holec High Voltage GIS	
Substation Name	Address
Woodstock	Selkirk St, Cape Town, 7925
Section C: ABB High Voltage GIS	
Substation Name	Address
Grassy Park	Montague Gift Rd, Grassy Park, 7805
Section D: HITACHI High Voltage GIS	
Substation Name	Address
Epping	Off Jan Smuts Drive, next to Epping Industria 1 Gunners Circle and Langa Township
Section E: AREVA High Voltage GIS	
Substation Name	Address
Foreshore	21 Martin Hammerschlag Way, Foreshore, Cape Town, 8000
Section F: XD High Voltage GIS	
Substation Name	Address
Morgen Gronde	Cnr Rubicon Boulevard & Cecil Morgan Dr, Brackenfell South, Cape Town, 7560
Triangle	Cnr Atomic St & Uranium St, Triangle Farm, Cape Town, 7530

REQUIREMENTS FOR SECTIONS A – F ONLY (CLAUSES 13.7 – 13.15)**13.7 SCOPE OF THE WORKS SECTIONS A – F**

13.7.1 The **scope of work for Sections A – F** shall include:

- 13.7.1.1 Maintain the specified switchgear in accordance with Original Equipment Manufacturers (OEM) advised standard procedures and maintenance intervals
- 13.7.1.2 Supply all required standard maintenance material kits which are OEM approved or certified equivalent.

- 13.7.1.3 Supply recommended OEM approved or certified equivalent spares as well as SF₆ as and when required.
- 13.7.1.4 Repair, upgrade and refurbish selected components of the GIS on advice from the OEM in accordance with 13.7.1.14
- 13.7.1.5 Implement any OEM advised extraordinary service interventions aimed at reducing the operational risk of the affected switchgear bays.
- 13.7.1.6 Repair to any unknown defects or non-conformances.
- 13.7.1.7 Provision of all tools, plant and test equipment required to perform the specified work including gas handling plant.
- 13.7.1.8 Provision of specialised services (including service and repair of SF₆ gas handling plant) required to perform the work
- 13.7.1.9 The work shall be on the high voltage GIS bays/installation at the switching stations listed in clause 13.7.1.13 and any additional bays that may be added to the Switching Stations.
- 13.7.1.10 It should be noted that Bay Names provided in the pricing schedule are as per the current High Voltage network configuration and may change should the network configuration change.
- 13.7.1.11 All maintenance repair and upgrade work on site, shall be executed by an OEM certified trained and experienced GIS specialist provided by the supplier.
- 13.7.1.12 The maintenance work shall be carried out in accordance with the preliminary programme to be agreed between the service provider and CCT and it should be noted that the 'Year of Planned Maintenance' in Table 2 below is indicative only and could be changed at CCT's discretion.
- 13.7.1.13 The maintenance types required on the GIS at the various switching stations are detailed in Table 2 below.
- 13.7.1.14 Repairs, OEM recommended upgrades and refurbishment shall be carried in accordance with the following:
- a. The tenderer will be required to carry repairs and/or OEM recommended upgrades and refurbishment work on all GIS specified in Table 2 below. The work can stem from equipment failure, CCT identified problems/defects or specified maintenance carried out by the tenderer.
 - b. During the specified maintenance, the tenderer shall identify and recommend repairs and/or OEM recommended refurbishment or upgrades that may be required in order to restore the availability and reliability to acceptable levels, and to extend the useful service life of the switchgear. The recommendation shall be accompanied with a quotation in accordance with the rates and conditions agreed in this tender.
 - c. Once a decision is taken by CCT to proceed with the repairs/refurbishment/upgrades, CCT in conjunction with the tenderer shall agree in writing on the scope, timelines and price to execute the work and schedule the work for completion.
 - d. On completion of the repairs/refurbishment/upgrades the tenderer shall supply CCT with a report detailing the following:
 - Detailed findings and work performed including supporting photographs
 - Tests performed and results (in a digital format)
 - Any warranty provided for the work carried out
 - Recommend any further remedial work that may be required.

TABLE 2: SWITCHING STATIONS INFORMATION AND REQUIRED WORK TYPE

Section A: Siemens Gas Insulated Switchgear					
Switching Station	Type	Year Commissioned	Maintenance Type or Work Type	Year of Planned Maintenance	No. of Bays
Athlone	8DN6 1	1978	35 year M2	2025	9
	8DN8 1	1989	35 year M2	2025	2
	8DN8 2	2010	17 year M1	2027	2
	8DN8 2	2005	17 year M1	2025	4
Constantia	8DN9 1	1997	25 year M3	2025	3
Eisleben Drive	8DV2051	1978	35 year M2	2025	2
Gugulethu	8DN8 2	2013	9 year M1	2025	1
	8DN8 2	2000	25 year M3	2025	7
Mitchells Plain	8DN6 1	1978	35 year M2	2025	7
	8DN6 1	1982	35 year M2	2025	2
	8DN8 1	1996	25 year M3	2025	2
Montague Gardens	8DN9 1	1997	25 year M3	2025	4
	3AP1 DTC	2009	15 year M1	2026	1
Muizenberg	8DN8 2	2001	25 year M3	2026	10
Newlands	8DN8 2	2000	25 year M3	2025	7
Philippi	8DN6 1	1978	35 year M2	2025	13
	8DN8 1	1996	25 year M3 REV	2025	3
Oakdale	8DN8 5	2016	9 year M1	2025	11
Maitland	8DN8 5	2014	9 year M1	2025	14
Paardevelei	8DN8 5	2020	None	Not Applicable	19
Steenbras	8DN6 1	1978	30 year M1	2025	9
	8DN6 1 (CB only)	2014	10 year M2	2025	4
Newfields	3AP1 DTC	2011	15 year M1	2026	7
	3AP1 DTC	2015	15 year M1	2026	1
Atlantis	3AP1 DTC	2016	10 year M1	2026	1
Section B: Holec Gas Insulated Switchgear					
Woodstock	TRISEP-P6	1996	30 year M1	2026	14
Section C: ABB Gas Insulated Switchgear					
Grassy Park	ENK 1.	1995	None	Not Applicable	13
Section D: Hitachi Gas Insulated Switchgear					
Epping	ELK04	2003	None	Not Applicable	8
Section E: AREVA Gas Insulated Switchgear					
Foreshore	F35-4	2009	20 Year M3 (major inspection service)	2025	23

Section F: XD Gas Insulated Switchgear					
Morgen Gronde	XD Z7F-145/40kA	2023	None	Not Applicable	20
Triangle	XD Z7F-145/40kA	2024 (planned)	None	Not Applicable	15

13.8 DELIVERY AND DURATION OF MAINTENANCE WORKS

The contract provides for the execution of a number of standard HV GIS maintenance services as well as the supply and delivery of all materials required to execute the specified work.

Details of the duration for the maintenance works per bay shall be provided on returnable schedules 13 A3 for Section A, 13 B3 for Section B, 13 C3 for Section C, 13 D3 for Section D, 13 E3 for Section E, and 13 F3 for Section F.

13.9 SUPPLY OF MATERIALS AND SPARES

13.9.1 The supply of materials and spares includes all required OEM approved or certified equivalent materials as per OEM advised maintenance services for gas insulated switchgear makes and types and required by CCT as defined in the Table 2 referenced in clause 13.7.1.12 of this specification. The tenderer shall attach proof of access to the required spares to returnable schedules 13 A4 for Section A, 13 B4 for Section B, 13 C4 for Section C, 13 D4 for Section D, 13 E4 for Section E and 13 F4 for Section F. The proof shall be in the form of letters from suppliers confirming an account or copy of supplier agreements. Spares not listed in the pricing schedule shall be supplied as provided for in pricing instruction 5.10.1.

13.9.2 It should be noted that SF₆ gas for all works, shall be supplied by CCT. The service provider shall timeously notify CCT of the SF₆ gas required for the work and any excess gas shall be returned to CCT. In the event that CCT for some unforeseen event, is not able provide SF₆ gas the tenderer shall supply gas at the rates in the pricing schedule (see items B5.1 and B5.2 for the relevant section of the tender)

13.9.3 The supply of various OEM approved or certified equivalent spare parts required to perform the specified work, not listed on the price schedule, must be accepted and agreed by the City of Cape Town's representative in writing. Pricing shall be done in accordance with Pricing Instruction 5.10.

13.9.4 The service provider shall have common spares readily available during the execution of maintenance work.

13.10 WORKS REQUIREMENTS SECTIONS A – F:

The service provider shall:

13.10.1 Supply and delivery of all materials, as per clause 13.9 of this specification, required to execute the particular work.

13.10.2 Supply and delivery to site of all special and standard tools required to undertake the required work.

- 13.10.3 Supply all Specialist Services (including service and repairs of SF₆ gas handling plant) required to perform the specified work, not listed on the price schedule, if accepted and agreed by the City of Cape Town's representative in writing. Pricing shall be done in accordance with Pricing Instruction 5.10.
- 13.10.4 Supply and delivery to site of all test equipment to undertake the maintenance service.
- 13.10.5 Be recognised OEM certified and have a proven track record of relevant experience at maintaining the High Voltage Gas Insulated Switchgear (GIS) rated up to 145kV as detailed in the specifications and need to provide detailed referral information of GIS work/projects undertaken and must be completed in returnable Schedules 13 A2 for Section A, 13 B2 for Section B, 13 C2 for Section C, 13 D2 for Section D, 13 E2 for Section E and 13 F2 for Section F. The tenderer must submit the company profile with the tender offer.
- 13.10.6 Have adequate GIS specialists and Service Technicians and semi-skilled workers as required for the entire duration of the work.
- 13.10.7 Have GIS specialists that are in possession of a valid OEM competency certificate(s) and has relevant experience in the HV power sector with proven ability to work independently and technical knowledge and experience to supervise and manage the schedule of the maintenance activities, as detailed in the scope of work of this specification for HV GIS maintenance and must be completed in returnable Schedules 13 A1 for Section A, 13 B1 for Section B, 13 C1 for Section C, 13 D1 for Section D, 13 E1 for Section E and 13 F1 for Section F.
- 13.10.8 Have Service Technician(s) that have experience in the HV power sector and have proof of relevant technical knowledge and experience in the work specified in the scope of work of this specification and must be completed in returnable Schedules 13 A1 for Section A, 13 B1 for Section B, 13 C1 for Section C, 13 D1 for Section D, 13 E1 for Section E and 13 F1 for Section F.
- 13.10.9 Have semi-skilled worker(s) that have experience of work in the HV power sector and proof of relevant technical knowledge and experience in the work specified in the scope of work of this specification and must be completed in returnable Schedules 13 A1 for Section A, 13 B1 for Section B, 13 C1 for Section C, 13 D1 for Section D, 13 E1 for Section E and 13 F1 for Section F.
- 13.10.10 Have GIS specialists, Service Technicians and Semi-skilled workers that are trained and have the necessary competence and experience to work safely within a substation environment and in close vicinity of live equipment, as per clause 13.22. Should it become necessary to replace any of the permanent skilled and/or specialised staff listed at the time of tender during the course of this contract, they may only be replaced by individuals with similar or better qualifications and experience, who satisfy the minimum requirements and then only with the approval of CCT.
- 13.10.11 Provide project management, coordination and back office services to facilitate and support the planned/ordered site work in an efficient manner.
- 13.10.12 Prepare, compile and revise project programme and schedules.

13.10.13 Prepare, compile and submit maintenance and/or works completion reports. The reports shall as a minimum include the following:

- Include completed maintenance inspection sheets (applicable to inspection)
- Detail findings and work performed including supporting photographs
- Include any findings from previous work to highlight specific trends identified
- Recommend any further remedial work that may be required
- An analysis of the historical data in a graphical and tabular format where applicable and in the format and representation of information and data approved by CCT
- Full report, data and raw data file submitted in a digital format approved by CCT.
- Latest OEM maintenance manuals

The service provider shall attach to returnable schedules 13 A5 for Section A, 13 B5 for Section B, 13 C5 for Section C, 13 D5 for Section D, 13 E5 for Section E and 13 F5 for Section F, a sample report covering the aspects listed above for the specified work stipulated in Table 2. and referenced in clause 13.7.1.12 and 13.11

13.10.14 Compile and provide all safety and environmental plans and documents as specified, ongoing safety and environmental compliance monitoring and CCT standard procedures shall apply as a minimum.

13.10.15 Ensure good liaison and communication between the site manager and CCT project manager to maintain seamless execution of the site works in accordance with agreed timeframes for each activity.

13.10.16 Ensure attendance of project initiation and regular project progress and management meetings.

13.10.17 Be responsible for execution of all the specified work, including testing and pre-commissioning tests, as specified.

13.10.18 Identify all additional work or repairs that may be required on the switchgear in order to ensure or achieve the CCT objectives.

13.10.19 Perform all Sulfur hexafluoride (SF₆) gas handling activities as per clause 13.13.

13.10.20 Provide transportation for their staff, material and equipment to and from site and shall only be entitled to claim for mileage to and from an office/base located within the City municipal boundaries.

13.10.21 Comply with the relevant Health and Safety Legislation as well as the relevant Environmental Legislation as detailed in this document.

13.10.23 Submit to CCT all maintenance protocol check lists, commissioning tests, handover sheets, safety files in respect of all required work.

- 13.10.24 Compile and submit a detailed maintenance schedule to the CCT project manager for acceptance before work commences. It shall be updated and distributed on a bi-weekly basis in PDF format or as agreed otherwise.
- 13.10.25 Provide to the CCT representative, a list of cell phone numbers of the staff required to be contactable.
- 13.10.26 Appoint a competent person to sign and submit the "Agreement by a Mandatory in respect of the Occupational Health and Safety Act 1993" Form (See Section 11).
- 13.10.27 Obtain CCT approval in writing for any further/additional prior to continuing with such additional works.
- 13.10.28 Supply all the evidence required in terms of clauses 13.10.5, 13.10.6, 13.10.7, 13.10.8 and 13.10.9 shall be included in the returnable schedules 13 of compulsory returns in the form of certificates as proof of qualifications and accreditation of all staff to be engaged in contract work with CV's attached.
- 13.10.29 Provide Gas Handling Plant as allowed for in the pricing schedule items B5.1 and B5.2 for the relevant sections A – F of the tender which includes the transport of the plant to and from Cape Town. CCT reserves the right to provide the gas handling plant should this be deemed to serve in its best interest provided that such plant is returned to CCT fully serviced on completion of the works.
- 13.10.30 Supply SF₆ gas for the required work as per the rates allowed for in the pricing schedule B4.1 and B4.2 for the relevant sections A – F. CCT reserves the right to supply SF₆ gas should this be deemed to serve in its best interest.

CCT shall be responsible to open, isolate, earth and handover the bay to the tenderer's responsible person for carrying out the required work and on completion of the work on a relevant bay, ensure that all SF₆ gas compartments are at their normal operating pressures, perform/request recommissioning checks and if all in order, restore the feeder back to its normal operating condition.

13.11 MAINTENANCE SPECIFICATIONS

The following tables contain the details of all maintenance instructions/activities to be done per maintenance type as recommended by the relevant OEM and the typical OEM approved or certified equivalent materials to be provided by the service provider, as required, for the duration of this contract.

Please note:

- All the maintenance protocols as defined by the OEM's are provided for all the HV GIS equipment and the service provider shall carry out the activities per maintenance type as defined in the pricing schedule and as summarised in clause 13.7.1.13. Not all the maintenance protocols provided are required for work specified in this tender.
- The service provider shall use the latest OEM maintenance instructions should the details provided below be superseded by the time the work is carried out.

13.11.1 SECTION A - DETAILED MAINTENANCE PROTOCOLS FOR SIEMENS HV GIS

13.11.1 (a) SIEMENS TYPE 8DN6 1

Siemens 8DN6 1 – Circuit Breaker Maintenance Activities		M1	M2	M3
General checks				
1.1	Note the number of make- and -break operations and any particular occurrences.	x	x	x
1.2	Check SF6 filling	x	x	x
1.3	Found gas values (before gas discharge): decomposition product, dew point temperature, SF6 percentage			x
2.	Draw off the SF6			x
Interrupter unit				
3.1)	Open one interrupter unit of the breaker and make a visual check of the contact system and the blast cylinder. If any irregularities are found proceed as under 3.2		x	x
3.2	Open all interrupter units and make a visual check of the contact system and the blast cylinder		x	x
3.3	Check and grease the bell-crank mechanism			x
3.4	Replace the filters			x
4.1	Examine and clean the operating rod			x
4.2	Examine and clean the post insulator			x
4.3	Auxiliary switch: Sparingly oil the bearings, examine and grease the coupling linkage.		x	x
5.	Fill in SF6.			x
5.1	- Check the contact-making manometers		x	
Electrohydraulic operating mechanism				
6.1	Carry out test operations	x		
6.2	Make a visual leakage check of the hydraulic system	x	x	x
6.3	Check oil level and list condition.	x		
6.4	Drain the oil and clean the oil tank and the intake filter		x	x
6.5	Examine the hydraulic storage cylinder, the main valves and the operating cylinders			x
6.6	Fill in new oil		x	x
6.7	Check the provisional nitrogen pressure	x	x	x
6.8	Raise the oil pressure to the nominal level. Measure the current input of the motor at this pressure		x	x
6.9	Carry out test operations.		x	x
6.10	Operate the breaker at reduced operating voltage		x	x
6.11	Check the operating pressure of the safety valve		x	x

6.12	Check the inner sealing of the hydraulic system		x	x
7.	Check the operating values of the SF6 density monitors and oil pressure monitors		x	x
8.	Check the breaker pressure gauge for SF6 and pressurised oil		x	x
9.	Check the current input of the anti-condensation heater			x
9.1	Check the heating effect	x	x	x
10.	Check anti-pumping feature		x	x
11.	Check all the fully assembled breaker for SF6 leaks			x
11.1	Check the seal assembly of driving rod for SF6 leaks		x	x
12.1	Check that the external connecting leads are seated firmly	x	x	x
12.2	Tighten the internal terminals		x	x
13.	Check the paint finish, touch up where needed	x	x	x
14.	Any additional items recommended by the OEM	x	x	x
<u>Legend:</u> *) - If required.				

Siemens 8DN6 1 – Switchgear Maintenance Activities		M1	M2	M3
General inspection				
1.1	Check the SF6 pressure, if incorrect, check the manometer and search for leaks	x	x	x
1.2	Found Gas values (before gas discharge) decomposition products, dew point temperature and SF6 percentage			x
2.	Draw off the SF6			x
3.	Check the isolators and earthing switches			
3.1	Check the contact pin and fixed contact on one pole of each unit. If lubrication or replacement proves to be necessary, proceed as under 3.2 else proceed with 3.3.			x
3.2	Check and, if necessary, replace the contact pins and fixed contacts of all poles			x
3.3	Check the contact faces and coupling pins for signs of wear			x
3.4	Lubricate the current-path assemblies, articulated joints and bearing surfaces and thoroughly clean the entire unit			x
3.5	Replace the filters			x
4.	Fill in the SF6		x	x
5.	Check the operating values		x	x
5.1	Check the contact-making manometers		x	x
Auxiliary switches				
6.1	Sparingly oil the contacts and bearing. Check and lubricate the linkages	x	x	x
7.	Check and lubricate the motor mechanism to their own instructions.	x	x	x
7.1	Check to see whether the linkage can move freely and the locknuts are tight. Lubricate the linkages	x	x	x
7.2	Carry out five test operations. Check to see whether the isolators and earthing switches assume their end positions correctly	x	x	x
7.3	Measure the minimum operating voltage		x	x
7.4	Measure the current input and actuating time at rated voltage		x	x
Mechanism of make-proof earthing switch				
8.1	Grease or oil all bearings, joints and sliding surfaces. Oil auxiliary switches and retighten terminal clamps	x	x	x
8.2	Carry out five test operations. Check to see whether the make-proof earthing switch assume their end positions correctly	x	x	x
8.3	Measure the minimum operating voltage		x	x
8.4	Measure the current input and actuating time at rated voltage		x	x
9.	Grease or oil all bearings, joints and sliding surfaces	x	x	x
9.1	Tighten the internal terminals	x	x	x
10.	Check the current consumption of the anti- condensation heater		x	x
11.	Check the switchgear interlock unit in accordance with its own instructions	x	x	x
11.1	Check the interlocking conditions	x	x	x
12.	Check the pressure, moisture content and air content of the SF6		x	x
13.	Check the switchgear for any signs of leakage		x	x
14.	Check the protective surface coating and touch up any damaged sections with paint or Valvoline Tectyl 506	x	x	x
15.	Any additional items recommended by the OEM	x	x	x

13.11.1 (b) SIEMENS TYPE 8DN8 1

Siemens 8DN8 1 – Circuit Breaker Maintenance Activities		M1	M2	M3
1	Record number of make-break operations (as specified per operation counter or requested by system management)	x	x	x
2	Carry out visual check	x	x	x
3	Record any special events (as specified by system management)	x	x	x
4	Check hydraulic operating system for external leakage (pipes, valves, etc.)	x	x	x
5	Check hydraulic operating system for internal leakage in ON and OFF positions (pressure loss per hour at nominal pressure and with oil pump switched off)	x	x	x
6	Check gas filling of circuit-breaker module using a precision pressure gauge	x	x	x
7 *)	Top up with gas, if necessary.	x	x	
8. *)	Trace and eliminate leak, if necessary.	x	x	
9	Check readings of pressure gauges for gas and for pressurised oil at nominal pressure range against readings of precision pressure gauges		x	x
10	Check density monitor: <ul style="list-style-type: none"> • Loss of SF6 • General lockout SF6 		x	x
11	Gradually reduce oil pressure in hydraulic system to zero, checking the operation of pressure monitors for lockouts and signals	x	x	x
12	Found gas values: (before gas discharge) <ul style="list-style-type: none"> • Decomposition product • Dew point temperature • SF6-percentage 	x	x	x
13	Pump out gas filling <ul style="list-style-type: none"> • Pressure equalisation by ambient air • Remove cover • Earth grading capacitors 			x
14	Remove cover of manway opening in partition plate and prepare circuit-breaker module for withdrawal			x
15	Mount truck assembly on circuit-breaker module			x
16	Undo partition plate and remove circuit-breaker			x
17	Clean all the poles including their operating rods (switching dust!)			x
18	From an interrupter unit remove fixed contact tube support together with fixed contact tube and check in the closed state also inspect guide tubes and the front end blast cylinder			x
19 *)	If any damage is found dismantle, inspect and if necessary repair the other two interrupter units as well			x
20	Replace all three coupling contacts Clean coupling contacts and contact pieces and grease sparingly			x
21	Reinsert circuit-breaker and bolt partition plate to the chamber of the main module,			x
22	Remove truck assembly			x
23	Reach through the manway opening, connect up the flexible copper links and refit shielding plate of earthing switch			x
24	Replace filters			x
25	Connect hose of service unit to maintenance point in control unit			x

	Evacuate housing of the circuit-breaker and fill with SF6 gas			
26	Check oil level in tank and fill if necessary (hydraulic operating system pressure less, OFF state)	x	x	x
27	In pressure less state, check pipe couplings of hydraulic operating system Retighten as necessary using a torque wrench	x	x	x
28	Take oil sample from bottom of oil tank and examine: <ul style="list-style-type: none"> • red and clear = good • opaque and milky state = poor condition • record result 			x
29	Drain oil from hydraulic operating system; clean oil tank; change filter			x
30	Refill with new hydraulic oil			x
31	Vent hydraulic operating system including oil pump		x	x
32	Start oil pump set and check priming pressure of nitrogen filling in hydraulic storage cylinder using a precision pressure gauge	x	x	x
33 *)	If necessary, replenish nitrogen (N2) filling in hydraulic storage cylinder	x	x	x
34	With rising and falling oil pressure, check pressure monitors for correct operating (lockouts and signals): <ul style="list-style-type: none"> • Pump ON • General lockout (N2) • General lockout (oil) • Lockout (oil) • Oil delivery faulted 		x	x
35	Check safety valve (opening and closing pressure)	x	x	x
36	Replace position switch S2 of volume switch on electric motor of the oil pump set	x	x	x
37	Lightly oil sliding surfaces of mechanism parts between main valve and auxiliary switch and also ON-OFF Indicator. Check all mechanism parts. (Do not oil auxiliary switch)		x	x
38	Check the closing magnets and tripping magnets of the control valve blocks: terminals, condition, aluminum ring (setscrew), magnets firmly tighten		x	x
39	Check effect of electric heaters, without carrying out measurement		x	x
40	Check to see that all connections to terminals and contactors, etc. are tight.		x	x
41	Carry out test operations.	x		
42	Test of correct functioning: operate breaker, check signals and lockouts, enforce trip-pole operation, anti-pumping feature, ON-OFF indicators, etc. This test normally extends to the control room console.		x	x
43	Measure pressure of gas filling (final checks)	x	x	x
44	Check all remade joints (cover and flanges) for any signs of leakage (final checks)			x
45	Check oil level in tank (final checks)		x	x
46	Check hydraulic operating system for external leakage (final checks)	x	x	x
47	Secure pressure release screw (final checks)	x	x	x
48	Measure moisture content of the gas (final checks)	x	x	x
49	Measure air content of the gas (final checks)	x	x	x
50	Paint finish and anti-corrosion protection (by customer's personnel)	x	x	x

51.	Any additional items recommended by the OEM	x	x	x
<u>Legend:</u> *) - If required				

Siemens 8DN8 1 – Switchgear Maintenance Activities		M1	M2	M3
1.	Carry out visual check of the bays; where applicable also check parts outside the building, e.g. overhead line termination modules.	x	x	x
2.	Record any special events (as specified by system management).	x	x	x
3.	Check gas filling using a precision pressure gauge (all gas compartments with the exception of the circuit breaker).	x	x	x
4. *)	Top up with gas, if necessary.	x	x	
5. *)	Trace and eliminate leak, if necessary.	x	x	x
6.	Check reading of pressure gauge in nominal pressure range against reading of precision pressure gauge.		x	x
7.	Check locknuts of operating linkages for disconnectors, earthing switches and high-speed earthing switches for tightness.	x	x	x
8.	Motor assemblies type 3DX601: Check control section. Test heater output (without taking readings).	x	x	x
9.	Motor assembly type 3AC.15: Carry out maintenance as per operating instructions. ("T-circuit-breaker 3AC") (Grease and oil, and check heater output without taking readings.) Check damper for correct sealing and oil level, and also check list mountings and operating linkage.	x	x	X
10.	Motor assembly type 3AC.16 grease and oil. Check heater output without taking readings.	x	x	x
11.	Check operating linkages of disconnectors and earthing switches for easy movement. To do this watch the ON-OFF indicators: Their movement must be uniform and smooth.	x	x	x
12.	Test-operate, i.e. open and close, each disconnector and earthing switch five times by its motor assembly (not by hand!).	x	x	x
13.	Measure the maximum current input of the motor assemblies at rated voltage: Motor assemblies type 3DX601 during opening and closing.		x	x
14.	Measure the opening and closing times of the disconnector motor assemblies at rated voltage: type 3DX601: closing and opening.		x	x
15.	After test-operating the disconnectors, earthing switches and high-speed earthing switches check their mechanical indicators for the ON and OFF positions. Note any discrepancies (e.g. pointer lever and ON/OFF indicator).	x	x	x
16.	Found gas values (before gas discharge) <ul style="list-style-type: none"> • decomposition product • dew point temperature • SF6-percentage 	x		x
17.	Connect hose of service unit maintenance point on the gas monitoring block.	x	x	x
18.	Pump out gas filling (all compartments except that circuit-breaker module and of voltage transformer).	x		x
19.	Remove covers fitted with filter holders.			x
20.	Inspect and clean all parts inside the chambers (ribbed insulators, conductors, shielding covers etc.) and also the inside walls.			x
21.	Check moving and fixed contact of disconnectors, earthing switches and high-speed earthing switches for signs of wear and replace as necessary (e.g. contact pins). This also applies to any other moving parts. Parts that can still be used should be cleaned and greased sparingly.			x
22.	Place new filter bags in boxes and fit the covers.			x
23.	Evacuate gas compartments and fill gas to about rated filling pressure.			x

24.	Check pressure gauges and density monitors. The following signals must be initiated: <ul style="list-style-type: none"> • SF6 pressure • rising Loss of SF6 Minimum • SF6 density. 		x	x
25.	Check to see that all connections to terminals and contactors, etc. are tight.		x	x
26.	Check the heater output in all cabinets (without taking readings).	x	x	x
27.	Measure pressure of gas filling (final checks).	x	x	x
28.	Check all remade joints (cover and flanges) for any signs of leakage (final checks).	x	x	x
29.	Measure moisture content of the gas (final checks).	x	x	x
30.	Measure air content of the gas (final checks).	x	x	x
31.	Paint finish and anti-corrosion protection (by customer's personnel).	x	x	x
32.	Bushings of overhead-line termination modules to be cleaned (by customer's personnel). **)	x	x	x
33.	Any additional items recommended by the OEM	x	x	x
<u>Legend:</u> *) - If required. **) - In general the bushings are maintenance-free. When a routine visual check is made (once a year) cleaning the porcelain is recommended.				

13.11.1 (c) SIEMENS TYPE 8DN8 2

Siemens 8DN8 2 – Switchgear Maintenance Activities		M1	M3
Entire installation, including outgoing lines			
7.1	Check exterior, record operating cycle counter reading	x	x
7.18	Check and repair the anti-corrosion agent Check rupture disk for signs of damage	x	x
7.11	Check function of anti-condensation heaters in drive housings and cabinets	x	x
7.11	Check the fixing of the cable and cable conduits, and if required tighten the terminals	x	x
Gas-related work			
7.4	Check the pressure of gas filling with precision pressure gauge	x	x
7.2	Extract the SF6 gas by suction		x
7.15	Replace filters		x
7.2	Evacuate gas compartment and fill with SF6 gas		x
7.5	Check moisture content of the SF6 gas		x
7.5	Measure SF6-air content		x
7.4	Perform leakage detection when the installation is ready for operation (in the case loss of gas and generally at covers and flanges that have been removed)		x
Gas monitoring			
7.3	Check function of the density monitor	x	x
Circuit-breaker			
7.9	Check drive Visual inspection of contact system		x
7.10	Function check of trigger circuits	x	x
7.3	Function check of closing lockout	x	x
7.3	Function check of General lockout SF6	x	x
7.10	Check anti-pump function	x	x
7.10	Check control function Check electrical connections and tighten terminals if necessary		x
Disconnecter and earthing switch module, work-in-progress earthing switches and high-speed earthing switches			
7.8	Check drive Visual inspection of contact system		x
7.11	Check electrical connections and tighten terminals if necessary		x
Expansion joint			
4.3.1.8	Check setting of the tie rods. Fasten screw connections as specified		x
Voltage and current transformers			
7.12/7.13.	Check electrical connections in the terminal boxes and tighten terminals if necessary		x
Additional Items			
8.	Any additional items recommended by the OEM	x	x

13.11.1 (d) SIEMENS TYPE 8DN8 5

Siemens 8DN8 5 – Switchgear Maintenance Activities		M1	M3
Entire installation, including outgoing lines			
7.1	Check external condition, note switching cycle counter	x	X
7.18	Check and repair the anti-corrosion agent.	x	
-	Visually check rupture disc with protective plate for damage	x	X
7.11	Check functioning of anti-condensation heaters in drive housings and cabinets	x	X
7.11	Check the fixing of the cable and cable glands, and if required tighten the terminals.	x	X
Gas-related work			
7.4.1	Check gas fill pressure with precision pressure gauge	x	X
7.17	Replace filters		X
7.5	Check moisture content of SF6 gas		X
7.5	Measure SF6 content		X
7.4	Perform leak test on system ready for operation (in the event of gas loss and in all cases on covers and flanges that were previously disconnected)		X
Gas monitoring			
7.3	Check function of the density monitors	x	X
Circuit Breaker			
7.9	Check actuator (circuit breakers)		X
-	Evaluation of condition of contact system		X
7.10	Check functioning of trip circuits (circuit breakers)	x	X
7.3	Check functioning of activation interlock (circuit breakers)	x	X
7.3	Check functioning of SF6 function interlock (circuit breakers)	x	X
7.10	Check functioning of anti-pumping function (circuit breakers)	x	X
7.10	Check control (circuit breakers)	x	X
7.11	Check electrical connections, tighten terminals if necessary		X
Disconnecter and earthing switch module, work-in-progress earthing switches and high-speed earthing switches			
7.8	Check actuator (disconnecter and earthing switch module as well as work-in progress earthing and high-speed earthing switch)		X
7.11	Check electrical connections, tighten terminals if necessary		X
Expansion Joint			
4.3.1	Check setting of the removal expansion joint. Establish bolted connections in accordance with specifications (expansion joint)		X
Voltage and current transformers			
7.12/ 7.13/ 7.14	Check electrical connections in terminal box or control cabinet, tighten terminals if necessary (current and voltage transformers and RC voltage dividers)		x
Additional Items			
8.	Any additional items recommended by the OEM	x	x
The switchgear system is shut down either in sections or in its entirety depending on the scope and implementation. The gas compartments are opened.			

Siemens 8DN9 1 – Circuit Breaker Maintenance Activities		M1	M2	M3
1.	Record number of make-break operations (as specified per operation counter or requested by system management)	x	x	x
2.	Carry out visual check Check hydraulic operating system for external leakage (pipes, valves, etc.)	x	x	x
3.	Check hydraulic operating system for internal leakage in ON and OFF positions. (pressure loss per hour at nominal pressure and with oil pump switched off)	x	x	x
4.	Check gas filling of circuit-breaker module using a precision pressure gauge	x	x	x
5 *)	Top up with gas, where necessary	x	x	
6 *)	Trace and eliminate leak, where necessary	x	x	
7.	Check density monitor: Loss of SF6 General lockout SF6		x	x
8.	Found gas values: (before gas discharge) Decomposition product Dew point temperature SF6-percentage	x	x	x
9.	Pump out gas filling Pressure equalisation by ambient air Remove cover Earth grading capacitors			x
10.	Drain oil from hydraulic operating system		x	x
11.	Dismantle (triple-pole) interrupter units			x
12.	Clean interrupter units			x
13.	From the interrupter units, remove and check the fixed contact tubes support together with the fixed contact tubes. In the closed state also inspect the guide tubes and the front end of the puffer cylinders			x
14*)	If damages is visible on the interrupter units of a breaker pole, the interrupter units of the other two poles must also be inspected. Repair the interrupter units if necessary			x
15.	Check sliding contacts and coupling contacts			x
16.	Reinsert complete breaker, guide in contacts. Fix mechanism housing to chamber. Dismantle truck assembly			x
17.	Refit hydraulic unit (with control unit) Fit/connect cables and gas lines			x
18.	Insert new filter bags in holders Refit covers			x
19.	Connect hose of service unit to maintenance point in control unit Evacuate housing of the circuit-breaker and fill with SF6 gas			x
20.	Check oil level in tank and fill if necessary (hydraulic operating system pressure less, OFF state)	x	x	x
21.	In pressure less state, check pipe couplings of hydraulic operating system Retighten as necessary using a torque wrench	x	x	x
22.	Replace filters			x
23.	Check oil level in tank and fill if necessary (hydraulic operating system pressure less, OFF state)	x	x	x
24.	Drain oil from hydraulic operating system; clean oil tank; change filter		x	x

25.	Take oil sample from bottom of oil tank and examine: red and clear = good; opaque and milky state = poor condition record result			x
25.	Vent hydraulic operating system including oil pump		x	x
27.	Start oil pump set and check priming pressure of nitrogen filling in hydraulic storage cylinder using a precision pressure gauge	x	x	x
28.*)	If necessary, replenish nitrogen (N2) filling in hydraulic storage cylinder	x	x	x
29.	With rising and falling oil pressure, check pressure monitors for correct operating (lockouts and signals): <ul style="list-style-type: none"> - Pump ON - General lockout (N2) - General lockout (oil) - Lockout (oil) - Oil delivery faulted 		x	x
30.	Check safety valve (opening and closing pressure)		x	x
31.	Fit new hose leading to hydraulic pump		x	x
32.	Check linkage between control valve blocks, auxiliary switch and ON-OFF indicator Examine coupling points Grease auxiliary switch linkage. Do not oil auxiliary switches!		x	x
33.	Check the closing magnets and tripping magnets of the control valve blocks: terminals, condition, aluminum ring (setscrew), magnets firmly tighten		x	x
34.	Check effect of electric heaters, without carrying out measurement		x	x
35.	Check to see that all connections to terminals and contactors, etc. are tight		x	x
36	Carry out test operations	x		
37.	Test of correct functioning: operate breaker, check signals and lockouts, enforce trip-pole operation, anti-pumping feature, ON- OFF indicators, etc. This test normally extends to the control room console		x	x
38.	Measure pressure of gas filling (final checks)	x	x	x
39.	Check all remade joints (cover and flanges) for any signs of leakage (final checks)			x
40.	Check oil level in tank (final checks)		x	x
41.	Check hydraulic operating system for external Leakage (final checks)	x	x	x
42.	Secure pressure release screw (final checks)	x	x	x
43.	Measure moisture content of the gas (final checks)	x	x	x
44.	Measure air content of the gas (final checks)	x	x	x
45.	Paint finish and anti-corrosion protection (by customer's personnel)	x	x	x
46.	Any additional items recommended by the OEM	x	x	x
<u>Legend:</u> *) - If required.				

Siemens 8DN9 1 – Switchgear Maintenance Activities		M1	M2	M3
1.	Carry out visual check of the bays; where applicable also check parts outside the building, e.g. overhead line termination modules	x	x	x
2.	Record any special events (as specified by system management)	x	x	x
3.	Check gas filling using a precision pressure gauge (all gas compartments with the exception of the circuit breaker)	x	x	x
4.*)	Top up with gas, where necessary	x	x	
5.*)	Trace and eliminate leak, if necessary	x	x	x
6.	Check reading of pressure gauge in nominal pressure range against reading of precision pressure gauge		x	x
7.	Check locknuts of operating linkages for disconnectors, earthing switches and high-speed earthing switches for tightness	x	x	x
8.	Motor assembly: Check control section. Test heater output (without taking readings)		x	x
9.	Check operating linkages of disconnectors and earthing switches for easy movement. To do this watch the ON-OFF indicators: Their movement must be uniform and smooth	x	x	x
10.	Test-operate, i.e. open and close, each. Disconnector and earthing switch five times by its motor assembly (not by hand!)	x	x	x
11.	Measure the maximum current input of the motor assemblies at rated voltage: Motor assembly during opening and closing		x	x
12.	Measure the opening and closing times of the disconnector motor assemblies at rated voltage: Motor assembly during opening and closing		x	x
13.	After test-operating the disconnectors, earthing switches and high-speed earthing switches check their mechanical indicators for the ON and OFF positions. Note any discrepancies (e.g. pointer lever and ON/OFF indicator)	x	x	x
14.	Found gas values (before gas discharge) decomposition product dew point temperature SF6-percentage			x
15.	Connect hose of service unit maintenance point on the gas monitoring block		x	x
16.	Pump out gas filling (all compartments except that circuit-breaker module and of voltage transformer)			x
17.	Remove covers fitted with filter holders			x
18.	Inspect and clean all parts inside the chambers (ribbed insulators, conductors, shielding covers etc.) and also the inside walls			x
19.	Check moving and fixed contact of disconnectors, earthing switches and high-speed earthing switches for signs of wear and replace as necessary (e.g. contact pins). This also applies to any other moving parts. Parts that can still be used should be cleaned and greased sparingly			x
20.	Place new filter bags in boxes and fit the covers			x
21.	Evacuate gas compartments and fill gas to about rated filling pressure			x
22.	Check pressure gauges and density monitors. The following signals must be initiated: SF6 pressure rising Loss of SF6 Minimum SF6 density		x	x

23.	Check to see that all connections to terminals and contactors, etc. are tight		x	x
24.	Check the heater output in all cabinets (without taking readings)	x	x	x
25.	Measure pressure of gas filling (final checks)	x	x	x
26.	Check all remade joints (cover and flanges) for any signs of leakage (final checks)	x	x	x
27.	Measure moisture content of the gas (final checks)	x	x	x
28.	Measure air content of the gas (final checks)	x	x	x
29.	Paint finish and anti-corrosion protection (by customer's personnel)	x	x	x
30.	Bushings of overhead-line termination modules to be cleaned (by customer's personnel). **)	x	x	x
31.	Any additional items recommended by the OEM	x	x	x
<u>Legend:</u> *) - If required. **) - In general the bushings are maintenance-free. When a routine visual check is made (once a year) cleaning the porcelain is recommended.				

Siemens 8DV2051 – Switchgear Maintenance Activities		M1	M2	M3
General checks				
1.1	Note the number of make- and -break operations and any particular occurrences.	x	x	x
1.4	Check the paint finish, touch up paint finish and anti-corrosion where needed	x	x	x
Quality and Change of filters				
2.1	Found gas filling pressure	x	x	x
	SF6 top up	x	x	
	Carry out trace leakage	x)	x)	x)
2.2	Comparison of pressure to precision gauge	x	x	x
2.3	Found gas values (before gas discharge): Decomposition product, dew point temperature, SF6 percentage	x	x	x
2.4	Change filters	x	x	x
2.5	Gas values (after filter replacement): Filling Pressure, decomposition product, dew point temperature, SF6 percentage	x	x	x
2.6	Check pressure monitor settings		x	x
2.7	Final leak test	x)	x	x
2.8	Final filling pressure	x)	x	x
Spring Drive Mechanism				
4.1	Check shock absorber oil level/fixing screws and oil tightness	x	x	x
	Change shock absorber oil			x
	Check smooth running of damping piston			
	Measure damping characteristic if shock absorber adjusted or replaced	x)	x)	x)
4.2	Grease/oil bearings, joints, slip planes	x	x	x
4.3	Grease coupling rod of aux switch	x	x	x
4.4	Measure spring charging time and max current consumption		x	x
4.5	Check operation with check of end position ON and OFF	x	x	x
4.6	Function of anti-condensation heaters (if applicable)		x	x
4.7	Check all connections for snug fit (terminal strip, contactors, solenoids, etc.)		x	x
Check Contact System				
5.1	Check the following <ul style="list-style-type: none"> • silver plating of all contact rods and counter contacts • condition of greasing at the contact areas of the rods (re-grease if required) • burn off • remove peaks on the contact rods and contact fingers if applicable 			x
5.2	Check moving parts inside gear head			x
5.3	Replace damaged parts, grease contact rods, joints and surfaces			x)
Additional Items				
6.	Any additional items recommended by the OEM	x	x	x
Legend: x) - If required.				

SIEMENS 3AP1 DTC 132kV – Circuit Breaker Maintenance Activities		M1	M3
1.	General checks.	x	x
2.	Found gas values (before gas discharge) decomposition product, dew point temperature, SF6-percentage		x
3.	Draw off the SF6.		x
4.	Open all interrupter units and withdraw upper contact carrier.		x
5.	Visual inspection of contact system.		x
6.	Reassembly of interrupter unit		x
7.	Replace the filters.		x
8.	Evacuating and filling the breaker with gas.		x
9.	Check gas pressure gauge.		x
10.	Check function of gas density monitor.	x	x
11.	Check the operating values of the gas density monitor.		x
12.	Check for leaks on operational breaker.	x	x
13.	Checks at drive mechanism.	x	x
14.	Terminal strip.		x
15.	Anti-Condensation heaters	x	x
16.	Functional check, trip circuits.	x	x
17.	Functional check, Reclosing lockout.	x	x
18.	Functional check SF6 lockout.	x	x
19.	Functional check, Anti pumping feature.	x	x
20.	Check of motor control.	x	x
21.	Measuring the SF6 gas humidity content.		x
22.	Measuring the SF6 air content.		x
23.	Anti-corrosion protection.	x	x
46.	Any additional items recommended by the OEM	x	x

13.11.2 SECTION B - DETAILED MAINTENANCE PROTOCOLS FOR HOLEC TRISEP-P6 HV GIS

Holec Trisep GIS - Scope of required activities 5 and 15 year maintenance – M1		
	inspection	Replacement
Circuit breaker (removable part)		
Hydraulic		
Inspection of blocking mechanism on hydraulic system	x	
Check connection of the zero pressure safety pin	x	
Check manual operation (by using the coil)	x	
Check manual operation of hydraulic pump	x	
Check the pre-pressure of the accumulator	x	
Inspection of the auxiliary contacts	x	
Inspection of the oil level	x	
Check of the hydraulic system on leakages	x	
Check adjustment of the hydraulic pressure switches and correct to the appropriate settings	x	
Measuring of the resistors (Voltage reducing resistors)	x	
Measuring of the coil resistance	x	
Record switching velocity of the Circuit Breaker (x-t diagram)	x	
Inspection running time and load current of pump motor	x	
Check number of operations CB and pump motor (if counter is available)		
Disconnecter (driving part) busbar and cable		
Check adjustment disconnector driving mechanism (electrical and mechanical)	x	
Check of chain tension on driving box	x	
Lubrication of driving chain (chain will not be dismantled)	x	
Inspection of the auxiliary contacts	x	
Inspection of the driving motor (brushes, wiring)	x	
Check mechanism and electrical blocking	x	
Check manual operation	x	
Check and lubricate moving parts (if necessary)	x	
Record current-time diagram during operation	x	
Earthing Switch (busbar and cable)		
Inspection of driving chain and bearings on margin	x	
Inspection of motor gearbox	x	
Inspection of operation and indicators	x	
Check working of mechanical blocking mechanism	x	
Check manual operation	x	
Inspection of the driving motor	x	
Inspection of the auxiliary contacts	x	
Check and lubricate moving parts (if necessary)	x	
Record of current-time diagram during operation	x	
Record switching velocity (x-t diagram)	x	
General		
Check gas density meters of all SF6 compartments	x	
Check adjustment of the contacts of the density control gauges	x	
Measure SF6 gas quality and leakage (hand tool) of all compartments	x	
If possible, measure the resistance from Bay to Busbar / Bay to Bay	x	
Check on corrosion, treat and touch up	x	
Check the auxiliary tools and SF6 handling tools	x	
Check the connectors / plugs and terminals	x	
Checking working / reading of the indicators	x	
Inventory and inspection of (strategic) spares	x	

Additional Items		
Any additional items recommended by the OEM	x	x

Holec Trisep GIS - Scope of required activities for 10 year maintenance – M2		
	Inspection	Replacement
Circuit breaker (removable part)		
Hydraulic		
Replacement of Operating coils		x
Inspection of blocking mechanism on hydraulic system	x	
Check connection of the zero pressure safety pin	x	
Check manual operation (by using the coil)	x	
Check manual operation of hydraulic pump	x	
Check the pre-pressure of the accumulator	x	
Inspection of the auxiliary contacts	x	
Inspection of the oil level	x	
Check of the hydraulic system on leakages	x	
Check adjustment of the hydraulic pressure switches and correct to the appropriate settings	x	
Measuring of the resistors (Voltage reducing resistors)	x	
Measuring of the coil resistance	x	
Record switching velocity of the Circuit Breaker (x-t diagram)	x	
Inspection running time and load current of pump motor	x	
Check number of operations CB and pump motor (if counter is available)	x	
Disconnecter (driving part) busbar and cable		
Check adjustment disconnector driving mechanism (electrical and mechanical)	x	
Check of chain tension on driving box	x	
Lubrication of driving chain (chain will not be dismantled)	x	
Inspection of the auxiliary contacts	x	
Inspection of the driving motor (brushes, wiring)	x	
Check mechanism and electrical blocking	x	
Check manual operation	x	
Check and lubricate moving parts (if necessary)	x	
Record current-time diagram during operation	x	
Earthing Switch (busbar and cable)		
Inspection of driving chain and bearings on margin	x	
Inspection of motor gearbox	x	
Inspection of operation and indicators	x	
Check working of mechanical blocking mechanism	x	
Check manual operation	x	
Inspection of the driving motor	x	
Inspection of the auxiliary contacts	x	
Check and lubricate moving parts (if necessary)	x	
Record of current-time diagram during operation	x	
Record switching velocity (x-t diagram)	x	
General		
Check gas density meters of all SF6 compartments	x	
Check adjustment of the contacts of the density control gauges	x	
Measure SF6 gas quality and leakage (hand tool) of all compartments	x	
Additional Items		
Any additional items recommended by the OEM	x	x

Holec Trisep GIS - Scope of required activities for 25 year maintenance – M3		
	inspection	replacement
Circuit breaker (removable part)		
Hydraulic		
Replacement of "top-plate" manifold block incl. hand pump, non-return, bleed valves		x
Replacement of oil tank		x
Replacement of spider coupling		x
Replacement operating coils IN/OUT		x
Replacement of Hydraulic Pressure Switches with new model 1)		x
Maintenance of the accelerator block; (Parts will be replaced		x
Replacement of hydraulic oil + filters		x
Replacement of return pipe/ hose		x
Replace hose between pump		x
Inspection of zero pressure cylinder;	x	
Inspection of the hydraulic system on leak;	x	
Inspection manual operation and indicators	x	
Inspection working manual operation of the hydraulic pump;	x	
Inspection running time and load current of pump motor;	x	
Inspection of the pre-pressure of the accumulator;	x	
Inspection and Cleaning of drive mechanism cubicle	x	
Puffer		
Replacement molecular sieve		x
Replacement of under contact holder		x
Inspection of the main contacts assembly 2)	x	
Retighten, (partly) cleaning, and inspection of the main fixed contacts of the CB 2)	x	
Inspection and retighten column on CB housing	x	
General Circuit breaker (removable part)		
Replacement of graphite bursting disc for version Steel BD + O-ring		x
Replacement blowout magnets on auxiliary contacts		x
Inspection of auxiliary contacts	x	
Replacement of SF6 density meter 3)		x
Check links, joint etc. and lubricate where ever necessary	x	
Check number of CB and pump motor operations if counter is available	x	
Switching and measurement x-t diagram	x	
Measuring of the series resistor	x	
Measurement of contact resistance	x	
Circuit breaker (fixed part)		
Replacement of graphite bursting disc for version with O-ring		x
Replacement of SF6 density meter 3)		x
Check moment (torque) of bolt connection	x	
Check alignment of contacts	x	
Cleaning of fixed main contacts (CT side)	x	
Check and Cleaning of compartment	x	
Disconnecter: (busbar and cable)		
Replacement of safety dowel pin		x
Inspection of auxiliary contacts	x	
Inspection of small drive-chain in driving box	x	
Inspection of the driving motor and load current	x	
Inspection and adjust mechanical driving mechanism	x	

Inspection of blocking / locking mechanism	x	
Inspection of motor gearbox	x	
Check manual operation and indicators	x	
Cleaning of drive mechanism cubicle if needed	x	
Recording of current-time diagram during operation	x	
Check signal box & driving box on SF6 leakage	x	
Check driving chain etc. and lubricate where ever necessary	x	
Earthing switch: (busbar and cable compartment)		
Replacement of closing coil		x
Replacement blowout magnets on auxiliary contacts		x
Inspection of auxiliary contacts	x	
Inspection of bearings	x	
Inspection of the driving motor	x	
Inspection of motor gearbox	x	
Inspection for SF6 leakage	x	
Inspection of the driving chain and bearings on margin	x	
Inspection of locking and blocking mechanism	x	
Lubricate chain if necessary	x	
Check operation and indicators	x	
Recording of current-time diagram during operation	x	
Recording of switching velocity (x-t diagram)	x	
Cable compartment		
Exchange of graphite bursting disc for version steel bursting disc + O-ring		x
Replacement of SF6 density meter 3)		x
Busbar		
Exchange of graphite bursting disc for version steel bursting disc + O-ring		x
Replacement of SF6 density meter 3)		x
Voltage Transformer		
Exchange of graphite bursting disc for version steel bursting disc + O-ring		x
Replacement of SF6 density meter 3)		x
VT piping & couplings check for leakage	x	
General		
Replacement of indication stickers		x
If possible measuring of the resistance from Bay to Busbar or Bay to Bay	x	
Check on the tools and SF6 handling tools	x	
Check on the connectors / plugs and terminals	x	
Measure SF6 quality of all compartments	x	
Check SF6 density and leakage of all compartments	x	
Inspection of corrosion, treat and touch up	x	
Check and retighten earthing connections GIS	x	
Additional Items		
Any additional items recommended by the OEM	x	x
Legend:		
1) The new model hydraulic pressure switches have more auxiliary contacts. Due to this fact the three old models will be replaced with one new model. 2) Replacement of contacts can only be done in the workshop of Siemens Energy B.V., the Netherlands. Therefore if inspection of the fixed contacts gives evidence of wearing and should be replaced, the CB or CB column(s) should be sent to the workshop of Siemens Energy B.V., the Netherlands. 3) Partly Wika and partly Danfoss.		

13.11.3 SECTION C - DETAILED MAINTENANCE PROTOCOLS FOR ABB 72.5 kV CALOR EMAG GIS TYPE ENK 1

INSPECTION AND MAINTENANCE PROGRAMME - ABB 72.5 kV CALOR EMAG GIS TYPE ENK 1	
1. CIRCUIT BREAKER – As per OEM Major Service protocols and technical improvements protocols and an instruction manual D SI 1370 87 E.	
<ul style="list-style-type: none"> • Visual Inspection • Function control • Recording of timing, velocity and dynamic resistance • Reading of operation counter • Any other technical improvements 	
2. SPRING DRIVE MECHANISM – As per OEM Major Service protocols and technical improvements protocols and an instruction manual D SI 1370 87 E.	
<ul style="list-style-type: none"> • Visual check • Function control • Visual Check of oil level • Visual Check of carbon brushes • Visual Check of terminals (electrical connections) and auxiliary switch • Measure charging time of spring charge motor • Reading of operation spring charge counter • Check if stored operation sequence is enabled without blocking • Visual Check of wiring terminal connection tightness • Check function of anti-condensation heater (if existing) • Visual Check of any connected cable plugs • Check the winding motor, gear and chain drive. • Grease latches, rocker shaft, worm gears, sliding bearings and the drive chain using grease NBU 13M ultra. • Check that all safety devices (e.g. safety pin) on crank bolts and screws etc. are secure. Check that the fixing on the C.B. drive frame are tight. • Check condition of the winding motor brushes. Replacement of brushes is normally only necessary after 10 000 C.B. operations. To replace brushes the motor must first be removed. • Check the hydraulic oil level, Normal. level: <ul style="list-style-type: none"> ○ +/-6 mm from the canter of the viewing glass if required. For topping up only use new hydraulic oil as per specification. • Check operation of operating coils and auxiliary switches: • Carry out a number of C.B. test operations. • Any damaged or worn parts discovered during inspection and maintenance are to be replaced as per section 7.22 of Instruction Manual D SI 1370 87 E. 	
3. DISCONNECTOR/ EARTHING SWITCH – As per OEM Major Service protocols and technical improvements protocols and an instruction manual D SI 1355 87 E.	
<ul style="list-style-type: none"> • Visual check • Function control • Measure motor current • Installation of overhaul kit if required • Switch drives <ul style="list-style-type: none"> ○ Functional check of drive, visual check of all mechanical safety elements ○ Grease the electrical contacts with Shell Alvania Grease R2 ○ Grease all drive parts accessible without disassembling using Isoflex NBU-15•M, Ultra. ○ Check for proper mechanical and electrical functioning of the auxiliary contacts. <p>Contact System</p> <ul style="list-style-type: none"> ○ Check for easy travel of contact rod and, if necessary remove and clean with cloth applying afterwards a thin layer of contact grease Shell Alvania Grease R2-before reassembling. ○ Check the contact fingers in the contact finger cage of the 1250A isolator for dirt and, where necessary, remove the terminal contact block assembly and clean with grease dissolving liquid (e.g. washing petroleum). ○ Check the contact rollers in contact roller rings of the 2500A isolator for dirt and where 	

<p>necessary remove the contact roller rings and clean.</p> <ul style="list-style-type: none"> • If necessary, replace terminal contact block respectively the contact roller rings and lightly grease the contact fingers resp. roller contacts with carrier using Shell Alvania Grease R2.
<p>4. GAS COMPARTMENTS – As per OEM Major Service protocols and technical improvements protocols and an instruction manual D SI 1354 87 E.</p>
<ul style="list-style-type: none"> • Check SF₆-gas pressure (refilling if necessary)' • Measuring of SF₆ humidity • Analysis of SF₆ gas (air content) • Analysis of SF₆ gas (decomposition) • Check for gas-leakages • Check of adjusted density monitor values
<p>5. LOCAL CONTROL PANEL – As per OEM Major Service protocols and technical improvements protocols.</p>
<ul style="list-style-type: none"> • Visual check • Check alarm circuit
<p>6. Additional Items</p>
<ul style="list-style-type: none"> • Any additional items recommended by the OEM

**13.11.4 SECTION D - DETAILED MAINTENANCE PROTOCOLS FOR HITACHI 145 kV GIS TYPE ELK
– 04: INSPECTION**

INSPECTION PROGRAMME - HITACHI 145 kV GIS TYPE ELK – 04	
1. CIRCUIT BREAKER – As per OEM Major Service protocols and technical improvements protocols.	
<ul style="list-style-type: none"> • Visual Check • Function control • Recording of timing, velocity and dynamic resistance • Check connected cable plug • Reading of operation counter • Any other technical improvements 	
2. HYDRAULIC SPRING DRIVE – As per OEM Major Service protocols and technical improvements protocols.	
<ul style="list-style-type: none"> • Installation of overhaul kit • Visual check • Function control • Visual Check of oil level • Visual Check of carbon brushes • Visual Check of terminals (electrical connections) and auxiliary switch • Measure charging time of hydraulic pump from zero pressure to pump stop • Reading of operation counter (pump starts) • Check if stored operation sequence is enabled without blocking • Visual Check of tightness • Check function of anti-condensation heater (if existing) • Visual Check connected cable plug 	
3. FAST ACTING EARTHING SWITCH – As per OEM Major Service protocols and technical improvements protocols.	
<ul style="list-style-type: none"> • Installation of overhaul kit • Visual check • Function control • Measure motor current • Control of auxiliary switch / limit switches • Visual Check connected cable plug • Visual Check function of anti-condensation heater (if existing) 	
4. COMBINATION DISCONNECTOR/EARTHING SWITCH – As per OEM Major Service protocols and technical improvements protocols.	
<ul style="list-style-type: none"> • Installation of overhaul kit • Visual check • Function control • Control of movable parts • Cleaning of driving elements • Lubrication of driving elements • Measure motor current • Control of auxiliary switch / limit switches • Visual Check connected cable plug • Check function of anti-condensation heater (if existing) 	
5. GAS COMPARTMENTS – As per OEM Major Service protocols and technical improvements protocols.	
<ul style="list-style-type: none"> • Check SF₆ gas pressure (refilling if necessary)' 	

<ul style="list-style-type: none"> • Measuring of SF₆ humidity • Analysis of SF₆ gas (air content) • Analysis of SF₆ gas (decomposition) • Check for gas-leakages • Check of adjusted density monitor values
6. LOCAL CONTROL PANEL – As per OEM Major Service protocols and technical improvements protocols.
<ul style="list-style-type: none"> • Visual check • Check alarm circuit • Check position indication • Check field interlocking • Check MCBs • Check control switch • Check function of anti-condensation heater (if existing) • Check mechanical and electrical connections • Visual Check connected cable plug
7. Additional Items
<ul style="list-style-type: none"> • Any additional items recommended by the OEM

13.11.5 SECTION E – DETAILED MAINTENANCE PROTOCOLS FOR AREVA 145 kV GIS TYPE F35-4

INSPECTION AND MAINTENANCE PROGRAMME – M3 AREVA 145 kV GIS TYPE F35-4	
1.	<p>GENERAL F35 – As per OEM M3 Minor Maintenance protocols.</p>
	<ul style="list-style-type: none"> • General condition checks • Visual inspection of the GIS • Cleanliness, corrosion, water tightness & ventilation • Visible damages or missing parts • Reading of all counters (HV operations, pump operations, surge arresters, etc.) • Electrical equipment and heating function • Check of GIS F35 accessories and spare parts (Preparation) OEM approved and / or Certified equivalent • Check of SF6 Gas handling equipment • Check of the main earthing connection points of the GIS • Check of secondary connections of current (CT) and voltage transformer (VT) • Check tightness of all screw connections / terminals in LVCC, in drive Mechanisms and other LV boxes (CT, VT, etc.) • Check all labelling
2.	<p>GAS COMPARTMENTS F35 – As per OEM M3 Minor Maintenance protocols.</p>
	<ul style="list-style-type: none"> • Check of last SF6 Gas measurement done by end-user • Digital pressure check on all gas compartments including detection of suspected gas leakages • Check of SF6 Gas purity in all gas compartments • Check of SF6 Dew point in all gas compartments • Check of SO2-content • Check settings of all density meters • Refill all gas compartments to nominal pressure, if required • Check Gas quality and Density meter alarm checks • Circuit Breaker Drive
3.	<p>CIRCUIT BREAKER F35-CB4 – As per OEM M3 Minor Maintenance protocols.</p>
	<ul style="list-style-type: none"> • Functional checks • For spring mechanism: Visual inspection of operating mechanism and oil level in damping device (dashpot) • Check for tightness on all screws and of all safety pins, replace if required • Measurement stroke and over travel • Circuit breaker Mechanism FK3-2 • Measurement of all operating parameters of CB-mechanism in connection with the circuit breaker • For spring mechanism: Timing CB + operations and Linkage adjustments (linked to timing tests) • Mechanical measurements on CB-Mechanism (e.g. operational energy) • Timing measurement, adjustment if required • Adjustment CLOSE/OPEN spring • Adjustment axial clearances • Check for tightness on all screws and of all split pins, pins, safety pins, replace if required • Clean CB-Mechanism and perform re-lubrication
4.	<p>DISCONNECTOR-/ EARTHING SWITCH (F35-DES-4 WITH OPERATING MECHANISM (ME1-3) – As per OEM M3 Minor Maintenance protocols.</p>
	<ul style="list-style-type: none"> • Functional check of operation including alignment (Close/Open switching) • Inspection of all ME1-3 Motor drives and perform re-lubrication if required • Measurement of running time of motor • Visual check of disconnecter main contacts (through inspection window) • Check insulation of insulated earthing switches, if applicable (1kV, 10sec)

<ul style="list-style-type: none"> • Check of heater (if applicable).
<p>5. FAST EARTHING SWITCH (F35-EFE, F35-EF4, F35-EFZ4) WITH OPERATING MECHANISM (MF2, MF1, MF3) – As per OEM M3 Minor Maintenance protocols.</p>
<ul style="list-style-type: none"> • Functional check of operation including alignment (Close/Open switching) • Inspection of all MF Motor drives, linkages and re-lubrication where required • Measurement of the running time of motor • Visual check of disconnectors main contacts (through inspection window) • Check insulation of insulated earthing switches, if applicable (1kV, 10sec) • Check heater (if applicable) • Specific Non-Intrusive Inspections
<p>6. SF₆-GAS BUSHINGS (F35-BU4)</p>
<ul style="list-style-type: none"> • Check for corrosion
<p>7. Additional Items</p>
<ul style="list-style-type: none"> • Any additional items recommended by the OEM

13.11.6 SECTION F – DETAILED MAINTENANCE PROTOCOLS FOR XD 145 kV GIS

Equipment Component		Activity	3 yearly	12 yearly
Circuit Breaker	Operating Mechanism	Fastening state of bolts	-	X
		Fastening state of foundation bolts	-	X
		Fastening state of earthing terminals	-	X
		Abnormal noise existed	X	X
		Rust and corrosion existed	X	X
		Check the components against cracks and damage.	-	-
		Apply lubricating grease on the assembly and connectors.	X	X
		Check whether the axial retainer ring at the connector part is securely fixed and the bolts are correctly tightened	X	-
		Measure the gap between the cam and roller (G1)	X	X
	SF6 System	Close SF6 valve to perform gas tightness test	-	X
		Check operating pressure of SF6 density meter	X	X
	Control System and Operation	Locking pressure	X	X
		Check and tighten screws of connector terminals	X	X
		Insulating resistance measurement of control circuit	-	X
		Check the contact of auxiliary switch	X	X
		Check heater connection (where applicable)	X	X
		Check of opening and closing coil	X	X
		Check gap G2 and G3 of electromagnetic core	X	X
		Check the condensation, corrosion and dust in the cabinet.	X	X
		Damage of vibration-proof rubber.	X	X
		Rubber gasket in door	X	X
		Check fastening of all bolts	X	X
		Opening & closing operation	X	X
Disconnect Earth Switch	Operating Mechanism	Inspection for rust, treatment, painting and coating of anti-rust coating.	X	X
		Check and tighten all wiring terminal screws	X	X
		Check and tighten all fastening bolts, screws and nuts	X	X
		Confirm correct closing and opening	X	X
		Check Manual opening and closing	X	X
		Conduct inspection and test according to the OEM Manual	X	X
		Perform insulation resistance between the control circuit, the motor and heater and their circuits and the frame.	X	X
		Clean the dust and dirt inside and outside the mechanism box.	X	X

		Brush lithium base grease ZL-1 onto the moving and friction parts	X	X
	Three-position disconnecter-earthing switch.	Inspect and check each part for abnormalities from outside and carry out dusting, cleaning and lubricating etc.	X	-
		Inspect and check each part thoroughly and replace the important, damaged or abnormal parts in order to reinstate the performance of the unit. Perform all tests in terms of the OEM manual taking ambient conditions into account.	-	X
Fast Acting Earth Switch	Operating Mechanism	Inspection for rust, treatment, painting and coating of anti-rust coating.	X	X
		Connection of electric circuit; Rotation direction of motor and mechanism	X	X
		Check and tighten all wiring terminal screws	X	X
		Check and tighten all fastening bolts, screws and nuts	X	X
		Switching on status of heater (if applicable)		
		Check whether the closing and opening position indicator displays the correct closing and opening position.	X	X
		Check Manual opening and closing	X	X
		Perform motor closing and opening operation for 5 times under the rated voltage and 85% rated voltage of control voltage and motor voltage each. The electric element shall operate normally. The counter shall work normally.	X	X
		Check and test interlock functional requirements according to the OEM Manual	X	X
		Check and test insulation resistance between each electric element and electric circuit and the mechanism supports shall be	X	X
		Clean the dust and dirt inside and outside the mechanism box.	X	X
		Apply low temperature lubrication grease onto the moving and friction parts	X	X
	Earth Switch	Inspect and check each part for abnormalities from outside and carry out dusting, cleaning and lubricating etc.	X	-X
		Check whether the fixed contact, moving contact and shielding cover etc., internal parts are in good condition.	-	X
		Replace the parts over the standard value with new parts	-	X
		Clean the parts and internal surface of enclosure by ethanol absolute and wash the insulated parts by acetone	-	X

		Assemble the earthing switch again and adjust the connecting mechanism	-	X
		Perform mechanical and electrical checks and tests as per the OEM manual.	-	X

13.12 CERTIFICATION AND TESTING

13.12.1 For each part of the work, the Service Provider shall timeously notify the CCT Representative when his work is will be ready for testing prior to completion of all maintenance work, on each bay. The Service Provider will only be allowed to continue with specified work after acceptance of each completed stage as specified above. The CCT representative reserves the right to witness testing, prior to energisation of the equipment.

13.12.2 The CCT Representative will inspect each completed stage of the work and endorse the prescribed checklist or hand-over certificate before acceptance of the Service Provider's work. Testing will include the following:

- Visual inspection, checks and verifications
- SF₆ gas quality and leakage tests
- Circuit breaker timing and analysing tests (if required)
- SF₆ gas density monitor alarm and lockout tests
- Manual operating check of circuit breakers, disconnecting switches and earthing switches

13.12.3 A final test report shall be supplied to CCT project manager after tests have been completed.

13.12.4 No payment can be authorised without acceptance of the checklists and hand-over certificates by the CCT's Project Manager.

13.12.5 Matters arising from work carried out by the Service Provider which is not adequately addressed by the checklists or hand-over certificates may be detailed by the Project Manager on a "Snag List".

13.12.6 The Service Provider will be required to provide a solution for all outstanding issues and defects on the "Snag List" within 5 working days of when the issues or defects were identified for approval.

13.13 SULFUR HEXAFLORIDE (SF₆) GAS HANDLING

All SF₆ gas handling work shall comply to IEC 62271-4:2014 Edition 1 and NSR 087.

13.13.1 SF₆ gas handling work may only be undertaken by personnel trained and certified in accordance with the current EU minimum requirements, or similar approved equivalent.

13.13.2 All SF₆ gas handling work shall be undertaken in a manner that will minimise the release of SF₆ to the environment.

13.13.3 Accurate measurements and records of all quantities of SF₆ handled during the execution of the maintenance and refurbishment service work carried out under this contract, shall be maintained at all times.

13.13.4 A SF₆ usage register shall be kept and supplied to CCT.

13.13.5 To avoid contamination of gas handling plants and temporary storage vessels, all SF₆ switchgear compartments must be quality tested before commencing evacuating any SF₆ from any switchgear compartment or storage vessel.

13.13.6 Records are to be kept of all SF₆ measurements taken prior to evacuation and after refilling.

13.14 SITE SECURITY FOR MATERIALS

The Contractor will be responsible for the security of all uninstalled material (and any equipment being used by them on site, which belongs to the CCT) from the time of collection and will be liable for any loss howsoever arising.

13.15 TRAINING

13.15.1 The City of Cape Town requires its technical staff, on an ad-hoc basis and as requested, to be trained and certified where required to be competent to carry out maintenance procedures on the specified makes and types of High Voltage GIS.

13.15.2 The Service Provider shall provide a description of the contents, duration of each course and prerequisites, if any, required of course participants. The information shall be of sufficient detail to evaluate the course and shall be attached to returnable schedules 13 A7 for Section A, 13 B7 for Section B, 13 C7 for Section C, 13 D7 for Section D, 13 E7 for Section E and 13 F7 for Section F.

13.15.3 The Training Instructors provided shall have proven previous experience conducting the specified training for a minimum of three (3) years. The training instructors shall have a complete and thorough knowledge of the equipment and course material. The service provider shall complete details of training provided including the content of the courses, duration and date of the course and referral client information in schedules 13 A6 for Section A, 13 B6 for Section B, 13 C6 for Section C, 13 D6 for Section D, 13 E6 for Section E and 13 F6 for Section F of this specification and attach a detailed CV of the training instructor. The information shall be used to establish the number of years of relevant experience of the Training Instructor.

13.15.4 The scope of the training shall be first line maintenance training which shall include but not limited to basic theory, operation and maintenance of the equipment and fault finding procedures for different failure modes and practical on-the-job application of the training provided.

13.15.5 The course shall accommodate five (5) candidates and each course participant shall receive a copy of the training manuals and other pertinent material with all changes and revisions to manuals and other documentation used during the training course.

13.15.6 CCT shall be responsible to provide a venue for the classroom training.

13.15.7 All notes and learning material compiled in the execution and delivery of this tender will become the intellectual property of the City of Cape Town.

REQUIREMENTS FOR SECTION G ONLY (CLAUSES 13.16 – 13.17)

13.16 SCOPE OF WORKS FOR SECTION G

The scope of work is to perform online partial discharge testing on all the switchgear listed in table 2 which is referenced in clause 13.7.1.13. The rates provided for in the pricing schedule for Section G: Table A is per switching station and shall be carried out in accordance with the requirements stipulated in 13.17 below. The labour rates in the pricing schedule Section G: Table B are for work outside the scope of the work specified in Table A. The transport and all other rates in pricing schedule Section G: Table B this are applicable to all work including the items listed in Table A.

13.17 WORKS REQUIREMENTS SECTION G

- 13.17.1 Online partial discharge testing is required to determine the state of the high voltage GIS insulation system and shall be performed while the equipment is energised at normal operating voltages and under normal operating conditions. The online partial discharge testing shall be performed on GIS equipment with no pre-installed sensors and shall not require the equipment to be de-energised.
- 13.17.2 The partial discharge tests shall be performed using non-invasive, calibrated partial discharge sensors including High Frequency Current Transformer (HFCT) sensors and/or Transient Earth Voltage (TEV) sensors. These sensors are inductively or capacitively coupled to the equipment to provide online partial discharge testing while the equipment remains energised.
- 13.17.3 The online partial discharge testing shall provide at least the following outputs:
- Qmax value (mV/pC) intensity of the combined positive and negative discharges
 - PD Pulses per cycle – Number of combined positive and negative discharges per cycle (repetition rate)
 - Shape or identity the PD pulses i.e. Internal, Tracking or Corona – Shape of accumulated discharges.
 - The potential source(s) and location(s) of partial discharge and recommended remedial action(s)
 - Frequency domain from 0 to 200MHz – Phase angle in degrees of the discharge cluster
 - Time domain – Various zero spans – Roll off frequency in MHz (From 0 to 200 MHz).
- 13.17.4 A detailed report shall be submitted to CCT and must include details of tests completed, test results, interpretation and analysis of the results (referencing standards where applicable), identification of defect types and the extent of degradation, assigned risk condition level detected and outline mitigation steps needed to reduce the risk. The report shall be accompanied with the data and raw data files in a digital format. The test report shall be submitted no later than 72 hours after the testing has been completed
- 13.17.5 The tenderer shall demonstrate their experience to perform online partial discharge testing as defined in this section by including at least three projects where this work was undertaken on similar Makes and Types of HV GIS. This shall be included in the returnable Schedule 13 G2 for Section G. The tenderer must submit the company profile with the tender offer.
- 13.17.6 Single line diagrams shall be made available to tenderers on request and will be subject to entering into a non-disclosure agreement. The tests shall be priced in accordance with pricing instruction 5.23.

- 13.17.7 Provision of any specialised services not included in the pricing but required to perform the online partial discharge testing at a cost plus 10% mark-up.
- 13.17.8 The work shall be on the high voltage GIS bays/installation at the switching stations listed in Table 2 referenced in clause 13.7.1.13 and may include any additional bays that may be added to the Switching Stations.
- 13.17.9 It should be noted that bay names are provided in tables A of the pricing schedule for sections A – F and it should be noted that the bay names are as per the current High Voltage network configuration and may change should the network configuration change.
- 13.17.10 Service Providers are also required to submit a sample Electrical Test Report in line with requirements of clauses 13.17.3 and 13.17.4. The sample report shall be for online partial discharge testing performed on the same or similar type of High Voltage GIS specified in table 2 referenced in clause 13.7.1.13. The service provider shall attach a sample report to the returnable schedule 13 G3.
- 13.17.11 The online partial discharge tests shall be performed in the presence of CCT's representative.
- 13.17.12 The service provider shall attach proposed test procedures for the online partial discharge testing returnable schedule 13 G4. The proposed test procedure shall be for online partial discharge testing performed on the same or similar type of High Voltage GIS specified in table 2 referenced in clause 13.7.1.13 and shall provide a detailed step by step method of performing the test and include all safe work procedures.
- 13.17.13 The Test Technicians shall have a minimum of 3 years' experience in the specified online partial discharge testing on the same or similar type of High Voltage GIS specified in table 2 referenced in clause 13.7.1.13. The service provider shall complete the name of the Test Technician, details of the HV GIS on which online partial discharge testing was done, duration and date of the work and referral client information in returnable schedule 13 G1. A detailed CV shall be attached to the returnable schedule for each test technician. The information shall be used to establish the relevant experience of the service technician and whether the number of years meets the minimum of 3 years' experience.
- 13.17.14 The test technician shall be fully trained and certified to operate the test equipment by the OEM or certified agent. Bidders shall submit documentation to prove compliance to this requirement upon request from CCT.
- 13.17.15 The Senior Test Technicians who will interpret, analyse the test results and compile the test report in line with clauses 13.17.3 and 13.17.4 and shall have minimum of five (5) years' relevant experience for the the same or similar type of High Voltage GIS specified in table 2 referenced in clause 13.7.1.13. The service provider shall complete the name of the Senior Test Technician and the details of interpretation, analysis and reporting of test results of online partial discharge tests performed on HV GIS and include details of the equipment tested, duration and date of the work and referral client information in returnable schedule 13 G1. A detailed CV shall be attached to the returnable schedule for each senior test technician. The information shall be used to establish the relevant experience of the Senior Test Technician and whether the number of years meets the minimum of 5 years' experience.
- 13.17.16 The service provider may be required to deploy specialists, on this contract only with the prior approval of CCT. A specialist is shall be defined as person who has specific experience and knowledge on the restrictive field or scope of work as it relates to online partial discharge testing and diagnosis.

- 13.17.17 The service provider shall compile and provide all safety and environmental plans and documents as specified, ongoing safety and environmental compliance monitoring and CCT standard procedures shall apply as a minimum
- 13.17.18 The service provider shall ensure good liaison and communication between the site manager and CCT project manager to maintain seamless execution of the site works in accordance with agreed timeframes for each activity.
- 13.17.19 The service provider shall ensure attendance of project initiation and regular project progress and management meetings.
- 13.17.20 The service provider shall provide transportation for their staff and equipment to and from site and shall only be entitled to claim for mileage to and from an office/base located within the City municipal boundaries.
- 13.17.21 The service provider shall comply with the relevant Health and Safety Legislation as well as the relevant Environmental Legislation as detailed in this document.
- 13.17.22 The service provider shall provide to the CCT representative, a list of cell phone numbers of the staff required to be contactable.
- 13.17.23 The service provider shall appoint a competent person to sign and submit the "Agreement by a Mandatory in respect of the Occupational Health and Safety Act 1993" Form (See Section 11).

REQUIREMENTS APPLICABLE TO ALL SECTIONS A – G (CLAUSES 13.18 – 13.32)

13.18 PROTECTIVE CLOTHING

13.18.1 The Service Provider must provide all protective clothing for employees under his control. This is to include arc flash overalls, boots, hard hats and any other protective clothing required.

13.18.2 The Service Provider needs to provide lanyards or safety belts for working at heights.

13.18.3 A well maintained and stocked first aid box supplied by the Service Provider shall always be made available for use in case of emergency at the worksite.

13.18.4 The Service provider must ensure compliance to the Code of Practice: Managing Exposure to SARS-COV-2 in the Workplace, 2022.

13.19 WORKMANSHIP AND BEHAVIOUR

Employees of the Service Provider are required to be courteous and professional on site, and are to be dressed neatly in a uniform manner that would reflect professionalism.

13.20 CONTACTABILITY OF SITE SUPERVISION

The Service Provider's site supervisors must be provided with cell phones to facilitate easy communication with the CCT project manager. The CCT project manager must be provided with a list of all phone numbers on commencement of the contract.

13.21 WORK INSTRUCTIONS AND ADDITIONAL WORK

13.21.1 CCT will issue an official instruction of work from time to time in the form of a purchase order after which the contractor shall acknowledge receipt of the instruction. A schedule for planned outages will be issued in advance to the Contractor. The allocation of work shall be in the following manner:

- (a) As and when the City of Cape Town Representative requires work to be executed under this contract, the City of Cape Town Representative shall specify, inter alia, the nature, location(s), extent, scope of work in a Works Project contract document comprising, as relevant, Work Allocation Procedures, Returnable Schedules, Specification and Scope of Work.
- (b) In the Bills of Quantities, the City of Cape Town Representative shall assign quantities to the work items relating to the specific Scope of Work in the Works Project. The assigned quantities shall be multiplied by the contract rates to constitute amounts that will be totalled to provide a financial offer for the contractor for this specific Works Project.
- (c) The City of Cape Town Representative shall make available to the contractor his individually priced Works Project contract document.
- (d) The Works Project contract document shall be completed, signed and returned by the contractor to the City of Cape Town Representative's offices no later than two (2) working days after receipt thereof if changes thereto were required.

- (e) The submission of a fully completed and signed Works Project document is mandatory, and the contractor may be requested by the City of Cape Town Representative's to complete and/or sign his submission, if necessary, should he have not already done so. A submission will be rejected as being invalid if the document is not fully completed and/or signed after the contractor has been requested by the City of Cape Town Representative's to complete and/or sign his submission

13.21.2 On occasion, the Service Provider may be required to undertake unforeseen work not explicitly detailed in the specification, the Service Provider must be prepared to undertake the work at the rates and provisions included in this tender.

13.22 OPERATING REGULATIONS AND PERMITS

13.22.1 NRS 040 Operating Regulations are applicable. Contractor's staff on site must be eligible for appointment as responsible person in terms of NRS 040 with a valid NRS 040 Responsible Persons Training certificate.

13.22.2 A NRS 040 training certificate is considered as valid if training for NRS Responsible person was completed in line with SAQA unit standard 242766: Demonstrate knowledge and understanding of operating regulations for high voltage systems. The Service Provider shall submit proof that the Contractor's staff is eligible for appointment as responsible person.

13.22.3 The responsible person on site shall at all times be in possession of a work permit and a signed risk assessment for the equipment he is working on and all work shall be done with compliance of NRS040.

13.22.4 The Contractor's staff conducting the maintenance, repair, refurbishment, upgrade or testing activities in terms of this tender shall be assessed and authorised as Responsible Persons by the City of Cape Town before any maintenance activities can be allowed.

13.22.5 The authorisation period shall be limited to the duration of the contract period

13.23 RESPONSIBILITY IN TERMS OF THE OHS ACT

13.23.1 The Service Provider shall be responsible for complying with the Occupational Health and Safety Act, 85 of 1993, and specifically the Construction Regulations.

13.23.2 The Service Provider shall be responsible for the safety of the public and liable for any accident or injury to any member of the public, as a direct result of ongoing contract work.

13.23.3 Any additional protective equipment required due to particular site circumstances or as instructed by this CCT Representative.

13.23.4 All the above-mentioned equipment shall be made available for inspection by the CCT Representative prior to commencement of work.

13.23.5 Repeated non-performance by a Service Provider will result in the City initiating the default process

which may lead to termination of the contract.

13.23.6 No work shall be undertaken without prior approval of the CCT Representative

13.24 WORKS NOT TO INTERFERE

The High Voltage Switching Substations will be operational throughout the Contract. The Service Provider shall ensure that the Works do not affect operations without good reason and that there is access at all times.

13.25 UNAUTHORISED PERSONS

The Service Provider shall keep unauthorised persons from the Works at all times.

13.26 KEY PERSONNEL

The Service Provider shall submit a schedule of key personnel, with contact particulars. Refer to Returnable Schedule 16.

13.27 MANAGEMENT MEETINGS

13.27.1 Technical Meetings

Technical meetings shall be held, on Site as often as deemed necessary by the CCT Representative.

The Service Provider shall arrange for the Service Provider's representative to attend these meetings.

13.27.2 Site Meetings

Site meetings shall be held upon commencement of the Contract and thereafter to be held monthly or as deemed necessary by the CCT Representative.

13.27.3 Health and Safety Meetings

The Service Provider is required to hold Health and Safety meetings monthly and keep his safety file updated.

13.28 ENVIRONMENTAL MANAGEMENT SPECIFICATION

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E: ENVIRONMENTAL MANAGEMENT SPECIFICATION

E1 SCOPE

The Environmental Management Programme (EMP) for the project is comprised of this Environmental Management (EM) Specification and its Annexures, including the “Additional environmental issues deemed to form part of the Environmental Management Specification” attached as Annexure D hereto, which together cover the requirements for controlling the impact on the environment of construction activities.

E2 INTERPRETATIONS

E2.1 Supporting specifications

The following standardised specification shall, *inter alia*, apply to this Contract:

- a) SANS 1200A, as may be varied or added to in the Scope of Work

E2.2 Application

This EM Specification contains clauses that are generally applicable to the undertaking of construction works in areas where it is necessary to impose pro-active controls on the extent to which the construction activities impact on the environment.

In the event of any difference or discrepancy between the provisions of the Standardised Specifications and the provisions of the EM Specification, the latter shall prevail.

E2.3 Definitions and abbreviations

For the purposes of this EM Specification the following definitions and abbreviations shall apply:

E2.3.1 Environment

The surroundings within which humans exist and that are made up of -

- a) the land, water and atmosphere of the earth;
- b) micro-organisms, plant and animal life;
- c) any part or combination of i) and ii) and the interrelationships among and between them; and
- d) the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being.

E2.3.2 Potentially hazardous substance

A substance which, in the reasonable opinion of the Employer's Agent, can have a deleterious effect on the environment.

E2.3.3 Method Statement

A written submission by the Contractor to the Employer's Agent in response to the EM Specification or a request by the Employer's Agent, setting out the plant, materials, labour and method the Contractor proposes using to carry out an activity, in such detail that the Employer's Agent is enabled to assess whether the Contractor's proposal is in accordance with the Scope of Work and/or will produce results in accordance with the EM Specification.

E2.3.4 Reasonable

Unless the context indicates otherwise, means reasonable in the opinion of the Employer's Agent after he has consulted with a person suitably experienced in "environmental implementation plans" and "environmental management plans" (both as defined in the National Environmental

Management Act, 107 of 1998).

E2.3.5 Solid waste

All solid waste, including construction debris, chemical waste, excess cement/ concrete, wrapping materials, timber, tins and cans, drums, wire, nails, domestic waste, dead vegetation, asphalt products, etc.

E2.3.6 Contaminated water

Water contaminated by the Contractor's activities containing cements, concrete, lime, paint products, thinners, turpentine, chemicals, fuels, oils washing detergents, etc.

E2.3.7 Working area

Any area within the boundaries of the Site where construction is taking place.

E2.3.8 Contractor's camp or construction camp

The area designated for all temporary site offices, storage areas, construction plant parking areas, staff welfare facilities, etc.

E2.3.9 Employer's Agent

The person/firm so named in the Contract Data, whose function is to administer the Contract as agent of the Employer, also known as the CCT Representative.

E2.3.10 Employer's Agent's Representative (ER)

The natural person appointed by the Employer's Agent in terms of the Contract, who shall observe the execution of the Works, examine and test materials and workmanship, and deliver and receive communications to/from the Contractor.

E2.3.11 Environmental Officer (EO)

Appointed by the Employer's Agent as his environmental representative on Site, with the mandate to enforce compliance with the EMP. The duties of the EO are stipulated in the City's guideline document for the EO and ER.

E2.3.12 Environmental Control Officer (ECO)

An independent appointment to objectively monitor implementation of relevant environmental legislation, conditions of Environmental Authorisations (EAs), and the EMP for the project.

E2.3.13 Environmental Site Officer (ESO)

Employed by the Contractor as his environmental representative to monitor, review and verify compliance with the EMP by the Contractor. The ESO must ensure that he is involved at all phases of the construction (from site clearance to rehabilitation).

E2.3.14 Abbreviations

The following abbreviations occur in this EM Specification:

EMP - Environmental Management Programme
EM Specification – Environmental Management Specification
EO - Environmental Officer
ECO – Environmental Control Officer
ESO – Environmental Site Officer
ER – Employer’s Agent’s Representative
MSDS - Material Safety Data Sheets

E2.4 Employer’s Agent’s authority to delegate

In terms of Clause 3.2.4 of the General Conditions of Contract, Second Edition, 2010 (GCC 2010), the Employer’s Agent has the authority to appoint a representative. Other than the Employer’s Agent’s Representative (ER) in terms of Clause 3.2, this can be in the form of an Environmental Officer (EO), who shall be responsible for monitoring compliance with the EMP. All instructions given by the EO shall go through the ER, who will then convey these to the Contractor, except in the case of an environmental emergency, in which case the EO can issue an instruction directly to the Contractor. An environmental emergency is one which, in the opinion of the EO, would cause serious environmental harm if not addressed immediately.

Depending on the nature/environmental sensitivity of the Contract the following variations in the organisational structure are possible:

- a) The ER may work together with an EO; or
- b) There may be an ER only (for construction projects with low potential for causing significant environmental impacts). In this case the ER has responsibility for the EO’s functions.
- c) There may be an independently appointed Environmental Control Officer (ECO) who will fulfil essentially the same functions as the EO. The ECO may work with just the ER (if there is no EO) or may work with both the ER and EO.

The term “Employer’s Agent” in this EM Specification refers to the Employer’s Agent as defined in Clause E2.3.9 acting through the ER/EO/ECO as delegated.

For this Contract, Employer’s Agent’s Representative(s) (ER) will be appointed. Depending on the location of the work site, the Employer’s Agent’s Representative(s) (ER) will be the following:

- HV Substations (South): Mr Ralph February
- HV Substations (North): Mr Mxolisi Ngongomana
- HV Substation (East): Mr David Walker

unless notified otherwise in writing by the Employer's Agent.

E3 MATERIALS

E3.1 Materials handling, use and storage

The Contractor shall ensure that any delivery drivers are informed of all procedures and restrictions (including "no go" areas) required to comply with the EM Specification. The Contractor shall ensure that these delivery drivers are supervised during offloading by someone with an adequate understanding of the requirements of the EM Specification.

Materials shall be appropriately secured to ensure safe passage between destinations. Loads, including but not limited to, sand, stone chip, fine vegetation, refuse, paper and cement, shall have appropriate cover to prevent them spilling from the vehicle during transit. The Contractor shall be responsible for any clean-up resulting from the failure by his employees or Contractors to properly secure transported materials.

All manufactured and or imported materials shall, where reasonably possible, be stored within the Contractor's camp and, if so required by the Employer's Agent, out of the rain. The location and method of protection of such materials stored outside of the Contractor's camp and the method of rehabilitation of these areas, shall be subject to the Employer's Agent's approval.

Stockpile areas shall be approved by the Employer's Agent before any stockpiling commences.

E3.2 Hazardous substances

Hazardous chemical substances (as defined in the Regulations for Hazardous Chemical Substances in GN 1179 (25 August 1995)) stored on Site for use during construction shall be stored in secondary containers which are clearly and appropriately marked/signed. The relevant Material Safety Data Sheets (MSDS) shall be available on Site. Procedures detailed in the MSDSes shall be followed in the event of an emergency situation.

If potentially hazardous substances are to be stored on Site, the Contractor shall inform the Employer's Agent of such substances and provide a Method Statement detailing the substances/materials to be used, together with the storage, handling and disposal procedures of the materials. Hazardous substances shall be stored out of flood risk areas and disposal of these substances shall be at a licensed waste disposal facility.

E3.3 Storage and handling Sulfur hexafluoride (SF₆)

All work activities involving the storage, testing, handling, re-use and disposal of Sulfur hexafluoride (SF₆) shall conform to SANS 62271-4:2014 (High-voltage switchgear and control gear - Part 4: Handling procedures for SF₆ and its mixtures) and such activities may only be executed by or under the direct supervision of suitable trained and certified personnel. Such personnel shall have been trained and certified in terms of current European Commission Regulations (Regulation EC/305/2008), or equivalent subject to approval by the Employer's Agent.

Accurate records that account fully for all quantities of re-used and new SF₆ handled during the execution of the work shall be compiled and maintained.

All incidents that result in the accidental release of SF₆ into the environment shall be brought to the attention of the Employer's Agent without delay.

E4 PLANT

(Referring to "Construction Equipment" as defined in GCC 2010, and the Contractor's facilities as used in SANS 1200A)

E4.1 Fuel (petrol and diesel) and oil

E4.1.1 Storage

If fuel and oil is to be stored on Site, then the Contractor shall submit a Method Statement covering the procedures for dealing with accidental hydrocarbon spillage and leaks, and detailing how these liquids will be stored, handled and disposed of.

The Employer's Agent shall approve the location of all fuel storage areas. All necessary approvals with respect to fuel storage and dispensing shall be obtained from the appropriate authorities. Symbolic safety signs depicting "**No Smoking**", "**No Naked Lights**" and "**Danger**" conforming to the requirement of SANS 1186 are to be prominently displayed in and around the fuel storage area. There shall be adequate fire-fighting equipment at the fuel storage area.

The Contractor shall ensure that all liquid fuels and oils are stored in tanks with lids, which are kept firmly shut and adequately secured. The capacity of the tank shall be clearly displayed and the product contained within the tank clearly identified using the emergency information system detailed in SANS 0232 part 1. Fuel storage tanks shall have a capacity not exceeding 9000 litres and shall be kept on site only for as long as fuel is needed for construction activities, on completion of which they shall be removed.

The tanks shall be situated on a smooth impermeable base with an earth bund. The volume inside the bund shall be 110% of the total capacity of the largest storage tank. The base may be constructed of concrete, or of plastic sheeting with impermeable joints, covered by a layer of compacted earth to protect the sheeting. The impermeable lining shall extend to the crest of the bund. The floor of the storage area shall be sloped to enable any spilled fuel and/or fuel-

contaminated water to be removed easily.

If any rainwater collects in the bunded areas, it shall be promptly removed and taken off Site to a disposal site approved by the Employer's Agent.

Only empty and externally clean tanks may be stored on the bare ground. Empty and externally dirty tanks shall be sealed and stored on an area where the ground has been protected.

Adequate precautions shall be provided to prevent spillage during the filling of any tank and during the dispensing of the contents. If fuel is dispensed from 200 litre drums, the proper dispensing equipment shall be used, and the drum shall not be tipped in order to dispense fuel. The dispensing mechanism for the fuel storage tanks shall be stored in a waterproof container when not in use.

E4.1.2 Refuelling

The refuelling of plant and vehicles on site is prohibited.

E4.1.3 Treatment and remediation

Treatment and remediation of hydrocarbon spill and leak areas shall be undertaken to the satisfaction of the Employer's Agent. In the event of a hydrocarbon spill the source of the spillage shall be isolated and the spillage contained.

E4.2 Ablution and toilet facilities

Washing, whether of the person or of personal effects, defecating and urinating are strictly prohibited other than at the facilities provided.

The Contractor's personnel will be permitted to use the City's ablution facilities on site.

Should the City's ablution facilities on site not meet the following minimum requirements, the Contractor shall provide facilities which conform to the following minimum standards:

Toilet facilities provided by the Contractor shall occur in a ratio of not less than 1 toilet per 30 workers (1:15 is preferred) of each sex.

Toilet facilities shall be located on the substation premises, all to the satisfaction of the Employer's Agent. All portable toilets shall be adequately secured to the ground to prevent them toppling over as a result of wind or any other cause.

The Contractor shall ensure that the entrances to these toilets are adequately screened from view, that they are maintained in a hygienic state, serviced regularly, that no spillage occurs when they are cleaned and that contents are removed from Site. Toilets shall also be emptied before any temporary site closure for a period exceeding one week. Discharge of waste from toilets into the

environment and burial of waste is strictly prohibited. The Contractor shall provide toilet paper at all times.

No ablution facilities shall be located closer than 50m to any water body

If applicable, a Method Statement shall be provided by the Contractor detailing the provision, location, and maintenance of ablution facilities.

E4.3 Eating areas

The Contractor shall designate eating areas on the work site. The feeding of, or leaving of food for, animals is strictly prohibited. Sufficient bins, as specified in Clause E4.4 below, shall be present in these areas.

Any cooking on Site shall be done on well-maintained gas cookers with fire extinguishers present. No open fires for cooking purposes shall be permitted, unless for occasional use in facilities specifically provided for this purpose and within the confines of the Contractor's camp.

The location of the eating and cooking area shall to the satisfaction of the Employer's Agent.

E4.4 Solid waste management

E4.4.1 Litter and refuse

The site shall be kept neat and clean at all times, littering is prohibited.

No on-site burying or dumping of any waste materials, vegetation, litter or refuse shall occur. The Contractor shall provide scavenger and weatherproof bins with lids, of sufficient number and capacity to store the solid waste produced on a daily basis. The lids shall be kept firmly on the bins at all times. Bins shall not be allowed to become overfull and shall be emptied regularly, at least once a week. Waste from bins may be temporarily stored on Site in a central waste area that is weatherproof and scavenger-proof, and which the Employer's Agent has approved. Wherever possible refuse shall be recycled, and containers for glass, paper, metals and plastics shall be provided and the contents delivered to suitable recycling facilities when necessary.

All other litter and refuse shall be disposed of off Site at an approved landfill site. The Contractor shall supply the Employer's Agent with a certificate of disposal.

E4.4.2 Construction waste

Where possible all construction waste or spoil material shall be recycled, either on Site or elsewhere. As a last resort all construction waste shall be disposed of off Site at an approved landfill site. The Contractor shall supply the Employer's Agent with a certificate of disposal.

E4.5 Contaminated water management

Potential pollutants of any kind and in any form shall be kept, stored, and used in such a manner that any spill or escape can be contained and the water table and/or any adjacent water courses or bodies are not endangered. Spill kits which can be used to contain and/or mop up spills shall be available. Water containing such pollutants as cements, concrete, lime, chemicals, oils and fuels shall be discharged into a conservancy tank for removal from the Site to a licensed disposal facility. This particularly applies to water emanating from concrete batching plants and to runoff from fuel storage, refuelling or construction equipment washing areas. Wash down areas shall be placed and constructed in such a manner so as to ensure that the surrounding areas are not polluted.

No paint products, chemical additives and cleaners, such as thinners and turpentine, may be disposed of into the storm water system or elsewhere on Site. Brush/roller wash facilities shall be established to the satisfaction of the Employer's Agent.

A Method Statement shall be provided by the Contractor detailing the management of contaminated water.

Should contaminated water be released into the environment, specifically into a water course, monitoring thereof shall commence in accordance to the National Water Act, 36 of 1998, Section 21(f) – refer to GN 399 (26 March 2004). Contaminated water must not be released into the environment without authorisation from the relevant authority.

The Contractor shall notify the Employer's Agent immediately of any pollution incidents on Site and, at his own cost, take all reasonable measures to contain and minimise the effects of the pollution.

Any rehabilitation of the environment required as a result of such pollution shall be carried out by the Contractor at his own cost in accordance with a Method Statement approved by the Employer's Agent.

E4.6 Site structures - not applicable

E4.7 Lights

The Contractor shall ensure that any lighting installed on the Site for his activities does not cause a reasonably avoidable disturbance to other users of the surrounding area.

Lighting installed shall, as far as practically possible, be energy efficient. Lighting utilised on Site shall be turned off when not in use.

E4.8 Workshop, equipment maintenance and storage

No workshops or plant maintenance facilities shall be constructed on Site for performing major or

routine maintenance of equipment and vehicles.

The Contractor shall ensure that in those areas where, after obtaining the Employer's Agent's approval, the Contractor carries out emergency or minor routine plant maintenance, there is no contamination of the soil, water sources or vegetation. Drip trays to collect waste oil and other lubricants shall be provided in any areas of the Site where such maintenance takes place. Drip trays must be emptied regularly and after rain, and the contents disposed of at a licensed disposal facility.

All vehicles and plant shall be kept in good working order. Leaking vehicles and plant shall be repaired immediately or removed from the Site.

The washing of vehicles and plant on Site shall be restricted to emergency or minor routine maintenance requirements only. Washing may only be undertaken in areas designated by the Employer's Agent.

E4.9 Noise

The Contractor shall limit noise levels (for example, by installing and maintaining silencers on plant). The provisions of SANS 1200A Clause 4.1 regarding "built-up areas" shall apply.

Appropriate directional and intensity settings are to be maintained on all hooters and sirens.

No amplified music shall be allowed on Site. The use of audio equipment shall not be permitted, unless the volume is kept sufficiently low so as to be unobtrusive. The Contractor shall not use sound amplification equipment on Site, unless in emergency situations.

Construction activities generating output levels of 85 dB(A) or more in residential areas, shall be confined to the hours 08h00 to 17h00 Mondays to Fridays. Should the Contractor need to do this work outside of the above times, he shall do so only with the approval of the Employer's Agent, and the surrounding communities shall be informed prior to the work taking place.

E5 CONSTRUCTION

E5.1 Method Statements

The Contractor shall submit the environmental method statements required within such reasonable time as the Employer's Agent shall specify or as required by the EM Specification. The Contractor shall not commence any activity until the Method Statement in respect thereof has been approved and shall, except in the case of emergency activities, allow a period of two weeks for consideration of the Method Statement by the Employer's Agent.

The Employer's Agent may require changes to a Method Statement if the proposal does not comply with the specification or if, in the reasonable opinion of the Employer's Agent, the proposal

may result in, or carries a greater than reasonable risk of, damage to the environment in excess of that permitted by the EM Specification.

Approved Method Statements shall be readily available on the Site and shall be communicated to all relevant personnel. The Contractor shall carry out the Works in accordance with the approved Method Statement. Approval of the Method Statement shall not absolve the Contractor from any of his obligations or responsibilities in terms of the Contract.

Changes to the way the Works are to be carried out must be reflected by amendments to the original approved Method Statements, and these amendments require the signature of both the Contractor and the Employer's Agent.

Method Statements shall consider all environmental hazards and risks identified by the Contractor and/or Employer's Agent and shall contain sufficient information and detail to enable the Employer's Agent to assess the potential negative environmental impacts associated with the proposed activity and shall cover applicable details with regard to:

- a) Construction or service procedures,
- b) materials and equipment to be used,
- c) getting the equipment to and from Site,
- d) how the equipment/material will be moved while on Site,
- e) how and where material will be stored,
- f) the containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur,
- g) the control of fire,
- h) timing and location of activities,
- i) compliance/non-compliance with the EM Specification,
- j) any other information deemed necessary by the Employer's Agent.

The format to be used for the required method statements is bound in Annexure A of this EM Specification. The Contractor (and, where relevant, any sub-contractors) must also sign the Method Statement, thereby indicating that the work will be carried out according to the methodology contained in the approved Method Statement.

E5.1.1 Method Statements to be provided within 14 days from the Commencement Date

- a) Ablution Facilities: number of, location, cleaning, method of securing to the ground, etc. of portable toilets (E4.2), if applicable.
- b) Solid Waste Management: number of, type, location, cleaning, method of securing to the ground, etc. of bins (E4.4).

- c) Environmental Awareness Training: logistics for the environmental awareness courses for all the Contractor's management staff, as well as other employees (E5.2).
- d) Emergency Procedures for Accidental Hydrocarbon Leaks and Spillages (E4.1 and E5.8).
- e) Storage and handling of Sulfur Hexafluoride gas, including samples of the required SF₆ record sheets

E5.2 Environmental Awareness Training

It is a requirement of this Contract that environmental awareness training courses are run for all personnel on Site. Two types of courses shall be run: one for the Contractor's and subcontractors' management, and one for all site staff and labourers. Courses shall be run during normal working hours at a suitable venue provided by the Contractor. All attendees shall remain for the duration of the course and sign an attendance register that clearly indicates participants' names on completion, a copy of which shall be handed to the Employer's Agent. The Contractor shall allow for sufficient sessions to train all personnel. Subsequent sessions shall be run for any new personnel coming onto Site. A Method Statement with respect to the organisation of these courses shall be submitted.

Notwithstanding the specific provisions of this clause, it is incumbent upon the Contractor to convey the spirit of the EM Specification to all personnel involved with the Works.

E5.2.1 Training Course for Management and Foremen

The environmental awareness training course for management shall include all management and foremen. The course, which shall be presented by the Employer's Agent or his designated representative, shall be of approximately one hour duration. The course shall be undertaken prior to the commencement of work on Site.

E5.2.2 Training Course for Site Staff and Labour

The environmental awareness training course for site staff and labour shall be presented by the Contractor from material provided by the Employer's Agent. The course shall be approximately one hour long. The course shall be undertaken not later than 3 working days after the commencement of work on Site, with sufficient sessions to accommodate all available personnel.

All the Contractor's employees, sub-contractors' employees and any Contractors' employees that spend more than 1 day a week or four days in a month on Site shall attend the Environmental Awareness Training Course for Site Staff and Labour

E5.3 Contractor's Environmental Representative (ESO)

The Contractor shall appoint an environmental representative, also called an Environmental Site Officer

(ESO), who shall be responsible for undertaking a daily site inspection to monitor compliance with this EM Specification. The Contractor shall forward the name of the environmental representative (ESO) to the Employer's Agent for his approval. The environmental representative (ESO) shall complete Environmental Site Inspection Checklists (Annexure B attached hereto) and these shall be submitted to the Employer's Agent once a week.

E5.4 Site division, demarcation and “no go” areas

The Contractor shall restrict all his activities, materials, plant and personnel to within the Site or any particular working areas specified or indicated on the drawings, or as instructed by the Employer's Agent or the Employer's Agent's Representative(s) .

The Contractor shall erect and maintain permanent and/or temporary fences of the type and in the locations specified elsewhere in the Scope of Work or on the drawings. Such fences shall, if so specified, be erected before undertaking any construction activities.

Where environmentally sensitive areas are specified as “no go” areas, the Contractor shall ensure that, insofar as he has the authority, no person, plant or material shall enter the “no go” areas at any time.

E5.5 Access routes/ haul roads – not applicable

E5.6 Construction personnel information posters

The Contractor shall erect and maintain information posters for the information of his employees, depicting actions to be taken to ensure compliance with aspects of the EM Specification. A2 information posters, printed on white vinyl, shall be erected at the eating areas and any other locations specified by the Employer's Agent.

The specification for the poster is presented in Annexure C of this EM Specification. The symbols shall be black and the circles shall be red lines. The Contractor shall ensure that the construction personnel information posters are not damaged in any way, and shall replace a poster if any part of it becomes illegible.

E5.7 Fire control

Other than for cooking purposes as specified in Clause E4.3, no fires may be lit on Site. Any fires which occur shall be reported to the Employer's Agent immediately.

Smoking shall not be permitted in those areas where it is a fire hazard. Such areas shall include fuel storage and refuelling areas, and any other areas where the vegetation or other materials are susceptible to the start and rapid spread of fire.

In terms of the National Environment Management: Air Quality Act, 39 of 2004 and Community Fire Safety By-law, burning is not permitted as a disposal method.

The Contractor shall appoint a Fire Officer (who may be the ESO) who shall be responsible for ensuring immediate and appropriate actions in the event of a fire and shall ensure that employees are aware of the procedure to be followed. The Contractor shall advise the relevant authority of a fire as soon as one starts and shall not wait until he can no longer control it. The Contractor shall forward the name of the Fire Officer to the Employer's Agent for his approval.

The Contractor shall comply with Clause 27 of the Construction Regulations, 2003 where applicable, and shall ensure that there is suitable and sufficient fire-fighting equipment available on Site at all times.

The Contractor shall be liable for any costs relating to the rehabilitation of burnt areas, should the fire be the result of the Contractor's activities on Site

The Contractor shall submit a Method Statement to the Employer's Agent covering the procedure to be followed in the event of a fire.

E5.8 Emergency procedures

The Contractor's attention is drawn to the Method Statements required in terms of Clauses E4.1 and E5.7 above. Such Method Statements shall include procedures to be followed by the Contractor in the event of an emergency.

Furthermore, in the event of an emergency the Contractor shall contact the City of Cape Town's Emergency Call Centre by telephoning 107 or 021 480 7700 (from a cell phone). Telephone numbers of emergency services, including the local firefighting service, shall be posted conspicuously in the Contractor's office near the telephone.

E5.9 Health and safety

The Contractor shall comply with requirements of the Occupational Health and Safety Act, 85 of 1993 and Construction Regulations, 2003, the Health and Safety Specification and relevant clauses of GCC 2010, insofar as health and safety is concerned.

E5.10 Community relations - not applicable

E5.11 General protections in terms of the National Heritage Resources Act, 25 of 1999 - not applicable

E5.12 Protection of natural features - not applicable

E5.13 Protection of flora and fauna - not applicable

E5.14 Erosion and sedimentation control – not applicable

E5.15 Aesthetics

The Contractor shall take any requisite measures to ensure that construction activities do not have an undue negative impact on the aesthetics of the area.

E5.16 Temporary site closure

In the event of temporary site closure exceeding one week, the Contractor's ESO shall carry out checks and ensure that, amongst others, the following conditions pertain and report on compliance with this clause:

- a) Fire extinguishers are serviced and accessible.
- b) There is adequate ventilation in enclosed spaces.
- c) All hazardous substance stores are securely locked.
- d) Fencing and barriers are in place.
- e) Emergency and management contact details are prominently displayed and available.
- f) Wind and dust mitigation measures, e.g. straw, brush packs, irrigation, etc. are in place.
- g) Excavated and filled slopes and stockpiles are at a stable angle and capable of accommodating normal expected water flows.
- h) There are sufficient detention ponds or channels in place.
- i) Cement and materials stores are secured.
- j) Toilets are empty and secured.
- k) Central waste area and all refuse bins are empty and secured.
- l) Contaminated water conservancy tank empty.
- m) Any bunded areas are clean and treated with an approved product where applicable
(e.g. Spill Sorb or Enretech #1 powder or equivalent).
- n) Drip trays are empty and secure

E5.17 Asphalt and bitumen – not applicable

E5.18 Dust

The Contractors shall be solely responsible, at his cost, for the control of dust arising from his activities on Site, and for any costs involved in damages resulting from the dust. The Contractor shall take all reasonable measures to minimise the generation of dust

E5.19 Contractor's advertising signage

Any advertising on the Site or any part of the Works shall remain at the sole discretion of the Employer, who reserves the right to order, via the Employer's Agent, its removal, covering or re-sizing, wherever placed, at no cost to the Employer.

Apart from at the Contractor's camp, no signage advertising the Contractor, or any of its subcontractors,

manufacturers, Contractors or service providers shall be placed, fixed or erected anywhere on the Site or on the Works without the prior approval of the Employer's Agent. No advertising signage will be permitted on any designated scenic route. Notwithstanding any prior approval given, the Employer's Agent may instruct the Contractor to remove, cover or re-size any advertising signage at any time at no cost to the Employer.

Advertising signage at the Contractor's camp shall be appropriately designed and sized with due consideration to the surrounding environment, views and sight lines.

Branding or identification markings on the Contractor's and subcontractor's vehicles and equipment is generally permitted, although the Employer reserves the right to instruct, via the Employer's Agent, the removal, covering or re-sizing of any branding, markings or signage, on any equipment (scaffolding, for example), which it considers inappropriate in the environment in which it is placed.

No third party advertising (that is, in respect of any person, business or product that is not associated with the Works) shall be permitted anywhere on the Site or Works.

E5.20 Clearance of Site on completion

On completion of the Works, and at final completion when all defects have been remedied or corrected, the Contractor shall, in addition to the requirements for clearance of the Site in terms of the Contract, ensure that he has complied with the following requirements in terms of this EM Specification:

E5.20.1 Clause E3.1

Clean-up of improperly secured transported materials, and rehabilitation of storage areas.

E5.20.2 Clause E4.1.3

Remediation of hydrocarbon spill and leak areas.

E5.20.3 Clause E4.4

Disposal of litter, refuse and Contractor's waste.

E5.20.4 Clause E5.4

Removal of temporary fences and Contractor's camp.

E5.20.5 Clause E5.5

Repair of access roads damaged by the Contractor, and rehabilitation of temporary access routes.

E5.20.6 Clause E5.7

Rehabilitation of burnt areas should a fire be the result of Contractor's activities on Site.

E5.20.7 Clauses E5.11 to 5.13

Rehabilitation of heritage and natural features, including vegetation which is damaged or disturbed, which required protection in terms of these clauses.

E5.20.8 Clause E5.14

Rectification where erosion and/or sedimentation has occurred due to the fault of the Contractor .

E5.20.9 Clause E5.19

Removal of Contractor's advertising signage.

E6 TOLERANCES

E6.1 Fines

Environmental management is concerned not only with the final results of the Contractor's operations, but also with the control of how these operations are carried out. Tolerance with respect to environmental matters applies not only to the finished product, but also to the standard of the day-to-day operations required to complete the Works.

It is thus required that the Contractor shall comply with the EM Specification on an on-going basis and any failure on his part to do so will entitle the Employer's Agent to certify the imposition of a fine. Fines may be issued per incident at the discretion of the Employer's Agent. Such fines will be issued in addition to any remedial costs incurred as a result of non-compliance with the environmental specifications. The Employer's Agent will inform the Contractor of the contravention and the amount of the fine, and will deduct the amount from monies due in payment certificates issued under the Contract.

Maximum fines for the following transgressions by either the Contractor and/or his sub-contractors may be imposed by the Employer's Agent, as follows:

	Maximum fine per incident
a) Persistent and unrepaired oil leaks from machinery/not using a drip tray to collect waste oil and other lubricants/not using specified absorbent material to encapsulate hydrocarbon spillage/using inappropriate methods of refuelling (the use of a funnel rather than a pump).	R 3 000
b) Refuelling in areas not approved by the Employer's Agent.	R 3 000

c)	Litter on Site.	R 1 000
d)	Deliberate lighting of fires on Site.	R 5 000
e)	Individual not making use of the Site ablution facilities.	R 1 000
f)	Dust or excessive noise emanating from the site	R 1 000
g)	Uncontrolled release of SF ₆ to the atmosphere	R 10 000

For each subsequent similar offence the fine shall be doubled in value to a maximum value of R50 000.

E7 TESTING - not applicable

E8 MEASUREMENT AND PAYMENT - not applicable

ANNEXURE A: ENVIRONMENTAL METHOD STATEMENT

CONTRACT:.....

DATE:.....

PROPOSED ACTIVITY (give title of method statement and reference number from the EMP):

--

WHAT WORK IS TO BE UNDERTAKEN (give a brief description of the works - attach extra information to ensure accurate description given):

--

WHERE THE WORKS ARE TO BE UNDERTAKEN (where possible, provide an annotated plan and a full description of the extent of the works):

--

START AND END DATE OF THE WORKS FOR WHICH THE METHOD STATEMENT IS REQUIRED:

Start Date:

End Date:

HOW THE WORKS ARE TO BE UNDERTAKEN (provide as much detail as possible, including annotated sketches and plans where possible):

Note: please give too much information rather than too little. Please ensure that issues such as emergency procedures, hydrocarbon management, wastewater management, access, individual responsibilities, materials, plant used, maintenance of plant, protection of natural features, etc. are covered where relevant

DECLARATIONS

1) EMPLOYER'S AGENT'S REPRESENTATIVE/ENVIRONMENTAL OFFICER/ENVIRONMENTAL CONTROL OFFICER

The work described in this Method Statement, if carried out according to the methodology described, appears to be satisfactorily mitigated to prevent avoidable environmental harm:

(signed)

(print name)

Dated: _____

2) CONTRACTOR

I understand the contents of this Method Statement and the scope of the works required of me. I further understand that this Method Statement may be amended on application to other signatories and that the Employer's Agent's Representative/Environmental Officer/Environmental Control Officer will audit my compliance with the contents of this Method Statement. I understand that this method statement does not absolve me from any of my obligations or responsibilities in terms of the Contract.

(signed)

(print name)

Dated: _____

3) EMPLOYER'S AGENT

The works described in this Method Statement are approved.

(signed)

(print name)

(designation)

Dated: _____

ANNEXURE B: ENVIRONMENTAL SITE INSPECTION CHECKLIST

To be submitted to the Employer's Agent once a week
















CONTRACT:.....**DATE:**.....

ENVIRONMENTAL ASPECT	YES/ NO (✓ or X)	COMMENTS
• All new personnel on Site are aware of the contents of the EMP and have been through the environmental awareness course.		
• Contractor's camp is neat and tidy and the labourers' facilities are of an acceptable standard.		
• Sufficient and appropriate firefighting equipment is visible and readily available in the appropriate places.		
• Waste control and removal system is being maintained.		
• Fences are being maintained.		
• Drip trays are being utilised where there is a risk of spillage.		
• Bunded areas/drip trays are being emptied on a regular basis (especially after rain).		
• No leaks are visible from construction vehicles.		
• Refuelling of vehicles and plant occurs within designated areas, and appropriate refuelling apparatus and drip trays are being used.		
• "No go" areas, natural features, vegetation, etc. have not been damaged.		
• Dust control measures (if necessary) are in place and are effectively controlling dust.		
• Noise control measures (if necessary) are in place and are working effectively.		
• Erosion and sedimentation control measures (if necessary) are in place and are controlling effectively.	Not applicable	
• Material stockpiles are located within the boundary of the Site and are protected from erosion.		
• SF ₆ Control policy being adhered to?		
• Hazardous substances are stored correctly		

Completed by:.....

Signed:.....

ENVIRONMENTAL MANAGEMENT DO'S AND DON'TS

	Workers & equipment must stay inside the site boundaries at all times		Use the toilets provided Report full or leaking toilets
	Do not swim in or drink from streams Do not throw oil, petrol, diesel, concrete or rubbish in the stream Do not work in the stream without direct instruction Do not damage the banks or vegetation of the stream		Only eat in demarcated eating areas Never eat near a river or stream Put packaging & leftover food into rubbish bins
	Protect animals on the site Ask your supervisor or Contract's Manager to remove animals found on site		Do not litter - put all rubbish (especially cement bags) into the bins provided Report full bins to your supervisor The responsible person should empty bins regularly
	Do not damage or cut down any trees or plants without permission Do not pick flowers		Always keep to the speed limit Drivers - check & report leaks Ensure loads are secure & do not spill
	Put cigarette butts in a rubbish bin Do not smoke near gas, paints or petrol Do not light any fires without permission Know the positions of fire fighting equipment Report all fires Do not burn rubbish or vegetation without permission		Know all the emergency phone numbers
	Work with petrol, oil & diesel in areas marked for this Report any petrol, oil & diesel leaks or spills Use a drip tray under vehicles & machinery Empty drip trays after rain & do not throw this water into a river		Fines of between R1000 and R5000 Removal from site Construction may be stopped
	Try to avoid producing dust - wet dry ground & soil		Report any breaks, floods, fires, leaks and injuries to your supervisor Ask questions!
	Do not make loud noises around the site, especially near schools and homes Report or repair noisy vehicles		

13.29 HEALTH AND SAFETY SPECIFICATION

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H: HEALTH AND SAFETY SPECIFICATION

H1 DEFINITIONS

For the purposes of this Specification, the definitions given in the Occupational Health and Safety Act, 85 of 1993 and the Construction Regulations, 2014, and the following definitions, shall apply:

- a) "Construction Regulations, 2014" means the Construction Regulations (GNR. 84 of 7 February 2014) published in terms of the OHS Act.
- b) "Contractor" means the Principal Contractor as defined in the Construction Regulations, 2014.
- c) "Employer" means the Client or his agent as defined in the Construction Regulations, 2014.
- d) "Employer's Agent" means the person/firm so named in the Contract Data whose function is to administer the Contract as agent of the Employer, acting through, if appointed, a Health and Safety Agent, also known as CCT Representative.
- e) "OHS Act" means the Occupational Health and Safety Act, 85 of 1993.
- f) "subcontractor" means any contractor employed by the Contractor to perform construction work.

H2 SCOPE

In terms of the OHS Act and the Construction Regulations, 2014 the Employer must provide the Contractor with a Health and Safety Specification, to which the Contractor must respond with a Health and Safety Plan for approval by the Employer.

The purpose of this Specification is to ensure that a Contractor entering into a contract with the Employer maintains an acceptable level of compliance with regard to health and safety issues during the performance of the Contract. In this regard the Health and Safety Specification forms an integral part of the Contract and the Contractor shall ensure that his subcontractors and/or Contractors comply with the requirements of this Specification.

H3 INTERPRETATION

The OHS Act and its associated regulations shall have precedence in the interpretation of any ambiguity or inconsistency between it and this Specification.

Responsibility for health and safety relating to the Works lies with the Contractor as described in this Specification. Nothing stated in or omitted from this Specification shall in any way limit the

Contractor's obligations and liabilities in terms of the OHS Act.

H4 GENERAL REQUIREMENTS

The Contractor shall:

- a) create and maintain a safe and healthy work environment;
- b) execute the Works in a manner that complies with all the requirements of the OHS Act and all its associated regulations, and in so doing, minimise the risk of incidents occurring; and
- c) respond to the instructions issued by the Employer's Agent through the Employer's Agent's Representative, except in the case of a health and safety issue which requires the Contractor's immediate attention, in which case the Employer's Health and Safety Agent can issue an instruction directly to the Contractor.

H5 ADMINISTRATION

H5.1 Occupational Health and Safety Agreement

The Contractor shall enter into an Agreement with the Employer before the commencement of the Works on Site.

H5.2 Good standing with the Compensation Fund or a licensed compensation insurer

The Contractor shall provide the Employer's Agent with a letter of good standing from the Compensation Commissioner or a licensed compensation insurer before the commencement of the Works on Site.

H5.3 Emergency procedures

The Contractor shall submit for acceptance to the Employer's Agent a health and safety emergency procedure, which includes but is not limited to fire, spills, accidents and exposure to hazardous substances, which:

- a) identifies the key personnel who are to be notified of any emergency;
- b) sets out details of available emergency services, including contact particulars; and
- c) the actions or steps which are to be taken during an emergency.

The Contractor shall within 24 hours of an emergency taking place notify the Employer's Agent in writing of the emergency and briefly outline what happened and how it was dealt with.

H5.4 Health and safety file

The Contractor shall ensure that a Health and Safety file, which shall include all documentation

required in terms of the provisions of the OHS Act, the Construction Regulations, 2014 and this Health and Safety Specification, is open and kept on Site at all times.

The Health and Safety file shall be made available for inspection by any inspector, subcontractor, the Employer, the Employer's Agent, the Employer's Health and Safety Agent, or employee of the Contractor, upon the request of such persons.

The Contractor shall hand over the Health and Safety file to the Employer's Agent upon Works completion of the Contract and, if applicable, a certificate of compliance accompanied by a test report for the electrical installation in accordance with the provisions of the Electrical Installation Regulations, 1992.

H5.5 Health and safety committee

Where applicable, the Contractor shall establish a health and safety committee, and shall convene health and safety meetings as provided for in the OHS Act.

The Employer's Agent or the Employer's Health and Safety Agent shall be invited to attend such meetings as an observer.

The Contractor shall ensure that minutes of the health and safety committee meetings are kept.

H5.6 Inspections, formal enquires and incidents

The Contractor shall inform the Employer's Agent:

- a) beforehand of inspections, investigations or formal inquiries of which he has been notified by an inspector; and
- b) as soon as reasonably practicable of the occurrence of an incident (as defined in the OHS Act) on the Site.
- c) All incidents referred to in terms of Section 24 of the Occupational Health and Safety Act shall be reported by the Contractor to the Department of Labour

The Contractor shall record all incidents and notify the Employer's Agent of any incident, except in the case of a traffic accident on a public road, as soon as possible after it has occurred and report such incident to an inspector as designated in terms of the OHS Act.

The Contractor shall investigate all incidents and issue the Employer's Agent with copies of such investigations.

H5.8 Personal protective equipment and clothing

The Contractor shall ensure that all workers are issued with the necessary personal protective

clothing.

H6 APPOINTMENTS

H6.1 Appointment of health and safety officers

The Contractor may, having considered the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the Site, appoint a full-time or part-time health and safety officer in writing, who has in the Contractor's opinion the necessary competencies and resources, to assist the Contractor in the control of all health and safety related aspects on the Site.

The Contractor shall compile and maintain an organogram which outlines the roles and responsibilities of the health and safety officers.

Other competent persons

The Contractor shall appoint in writing competent persons to:

- a) induct employees in health and safety; and
- b) prepare a fall protection plan, if applicable.

H6.4 Health and safety representative(s)

The Contractor shall appoint in writing, if necessary in terms of the OHS Act, a health and safety employee representative(s), whose duties shall be as described in the OHS Act.

H7 EMPLOYER'S HEALTH AND SAFETY AGENT

The Employer's Health and Safety Agent shall:

- a) audit the Contractor's compliance with the requirements of this Specification prior to the commencement of any physical construction activities on the Site;
- b) accept or reject all safety plans, giving reasons for rejecting such plans;
- c) monitor the effective implementation of all safety plans;
- d) conduct periodic and random audits on the health and safety file to establish compliance with the requirements of this Specification and the Contractor's health and safety plan; and
- e) visit the site at regular intervals to conduct site inspections, and based upon such visits issue, wherever necessary, any notices and/or instructions to the Contractor or any of the Contractor's subcontractors with a copy to the Employer's Agent and, where relevant, to the Contractor.

The Contractor shall invite the Employer's Health and Safety Agent to audit compliance with the requirements of this Specification before commencing with any new activity on the Site.

The Contractor shall permit the Employer's Health and Safety Agent to audit the Contractor's compliance with the approved Health and Safety Plan, and shall provide any assistance and/or documentation as may be required in this regard.

The Employer's Health and Safety Agent shall be the CCT Representative and/or his duly appointed delegates:

- HV Substations (South): Mr Ralph February
- HV Substations (North): Mr Mxolisi Ngongomana
- HV Substation (East): Mr David Walker

H8 CREATING AND MAINTAINING A SAFE AND HEALTHY WORK ENVIRONMENT

H8.1 General

The Contractor shall with respect to the Site and the works that are contemplated:

- a) cause a preliminary hazard identification to be performed by a competent person before commencing any physical activity;
- b) evaluate the risks associated with such work constituting a hazard to the health and safety of such employees and the steps that need to be taken to comply with the OHS Act; and
- c) as far as is reasonably practicable, prevent the exposure of such employees to the hazards concerned or, where prevention is not reasonably practicable, minimise such exposure.
- d) no structure or part of a structure is loaded in a manner which would render it unsafe;

The Contractor shall carry out regular inspections and audits to ensure that the Works are being performed in accordance with the requirements of this Specification and the Contractor's health and safety plan

H8.2 Risk assessment

The Contractor shall before the commencement of any work on Site and during such work, cause risk assessment(s) to be performed by a competent person appointed in writing. Such assessment(s) shall as a minimum:

- a) identify the risks and hazards to which persons may be exposed to;
- b) analyse and evaluate the identified risks and hazards based on a documented method;
- c) document a plan of safe work procedures, including the use of any personal protective equipment or clothing and the undertaking of periodic "toolbox talks" or inductions before undertaking hazardous work, in order to mitigate, reduce or control the risks and hazards that have been identified;
- d) provide a monitoring plan; and
- e) provide a review plan.

The Contractor shall ensure that as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated and addressed in the risk assessment.

The Contractor must review the relevant risk assessment -

- f) when an incident has occurred.

H8.3 Health and safety plans

The Contractor shall prior to commencing the Works to which this Specification applies, submit to the Employer's Health and Safety Agent for approval a suitable and sufficiently documented health and safety plan, based on this Specification and the risk assessment that is conducted.

The health and safety plan shall include, but not be limited to, the following:

- a) The safety management structure, including the names of all designated persons such as the construction supervisor and any other competent persons;
- b) Safety method statements and procedures to be adopted to ensure compliance with the OHS Act; Construction Regulations, 2014 and this Health and Safety Specification;
- c) The provision and use of temporary services;
- d) Personal protective equipment, devices and clothing required;
- e) Emergency procedures;
- f) Provision of workers' welfare facilities;
- g) Induction and training;
- h) Arrangements for monitoring and control to ensure compliance with the safety plan; and
- i) Provision and maintenance of the health and safety file and all other relevant documentation.

The Contractor shall provide each subcontractor with the sections of this Health and Safety Specification pertaining to the work to be performed by that subcontractor. The subcontractor shall provide the Contractor with a health and safety plan pertaining to his work, for incorporation into the Contractor's health and safety plan.

The Contractor shall discuss the submitted health and safety plan with the Employer's Health and Safety Agent, modify such plan in the light of the discussions and resubmit the modified plan for approval.

The Contractor shall apply the approved health and safety plan from the date of its approval and for the duration of the Works to which this Specification applies.

The Contractor shall conduct periodic audits for compliance with the approved health and safety plan at intervals agreed upon with the Employer's Health and Safety Agent, but at least once every month. The Contractor shall update the health and safety plan whenever changes to the Works are brought

about.

H8.4 Responsibilities towards employees and visitors

The Contractor shall, as far as is reasonably practicable, cause every employee to be made conversant with the hazards to his health and safety attached to any work which he has to perform, any article or substance which he has to produce, process, use, handle, store or transport and any plant or machinery which he is required or permitted to use, as well as with the precautionary measures which should be taken and observed with respect to those hazards or safe work procedures.

The Contractor shall ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment.

The Contractor shall cause a record of all induction training to be kept, which indicates the names, identity numbers and job description of all those who attended such training.

The Contractor shall not allow or permit any employee to enter the Site, unless such person has undergone health and safety induction training pertaining to the hazards prevalent on the Site at the time of entry.

The Contractor shall ensure that all of his employees have a valid medical certificate of fitness specific to the work to be performed and issued by an occupational health practitioner on the prescribed form.

The Contractor shall ensure that each visitor to the Site, save where such visitor only visits the site office and is not in direct contact with the work activities:

- a) undergoes health and safety instruction pertaining to the hazards prevalent on the Site; and
- b) is in possession of and using the necessary personal protective equipment.

The Contractor shall cause a record of all induction training to be kept in the Health and Safety file.

The Contractor shall provide suitable on-site signage to alert workers and visitors to health and safety hazards and requirements. Such signage shall include but not be limited to:

- c) prohibited unauthorised entrance;
- d) signage to indicate what personal protective equipment is to be worn; and
- e) activity related signs.

The Contractor shall not permit any person who is or who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a workplace.

H1 . 1 Subcontractors

The Contractor may only subcontract work in terms of a written subcontract and shall only appoint a subcontractor should he be reasonably satisfied that such a subcontractor has the necessary competencies and resources to safely perform the work falling within the scope of the subcontract.

The Contractor shall ensure that all of his obligations in respect of subcontractors in terms of the Construction Regulations, 2014 are adhered to.

H1 . 2 Work permits and wayleaves

The Contractor shall be responsible for obtaining all the wayleaves, permissions or permits applicable to working near any existing services or other infrastructure on Site, and shall abide by the safety conditions imposed by such wayleaves, permissions or permits.

H1 . 3 Access to the Site

The Contractor shall ensure that access to the Site is strictly controlled and that, where possible, only authorised persons are permitted onto the Site.

The Contractor shall control the access to Site of his own personnel and equipment, and that of his subcontractors and Contractors, in such a way so as to ensure that the safety of all public pedestrian and vehicular traffic is not compromised.

H1 . 4 First aid and emergency procedures

The Contractor shall, where more than five employees are employed at a workplace, provide a first aid box or boxes at or near the workplace, which shall be available and accessible for the treatment of injured persons at that workplace. Such first aid boxes shall contain suitable first aid equipment.

The Contractor shall ensure, where there are more than 10 employees employed on the Site, that for every group of up to 50 employees at that workplace at least one person is readily available during normal working hours who is in possession of a valid certificate of competency in first aid.

The following information shall be conspicuously posted in the offices of the Contractor for the duration of the Contract:

Telephone numbers of emergency services;

The names of all safety representatives and safety officers; and

The name(s) of the competent first aider(s).

The Contractor shall post, in prominent places, notices indicating where the first aid box(es) is/are kept, as well as the name of the person in charge of the first aid box.

H1.5 Housekeeping

The Contractor shall ensure, *inter alia*, that suitable housekeeping is continuously implemented on the Site, including provision for the:

removal of scrap, waste and debris, and materials which are no longer required for use, at appropriate intervals (in accordance with Construction Regulation 27); and
proper stacking and storage of materials and equipment (in accordance with Construction Regulations 27 and 28).

H1.6 Fire precautions

The Contractor shall ensure that all appropriate measures are taken to minimise the risk of fire and that appropriate procedures and equipment are in place to deal with the event of a fire, all in accordance with Construction Regulation 29 and the Environmental Management Specification in in Part 5.4.5 of the SPECIFICATION

H1.7 Facilities for workers

The Contractor shall provide ablution facilities and eating areas all as specified in the Environmental Management Specification in Part 5.4.5 of the SPECIFICATION.

H1.8 Materials, substances, tools and machinery used on site

No substandard materials, substances, tools and machinery shall be used on the site.

No use shall be made of any of the Employer's machinery/plant/equipment/substance/personal protective equipment or any other article without prior arrangement and written approval.

H2 GENERAL HAZARDS AND RISKS APPLICABLE TO WORK REQUIRED IN TERMS OF THIS TERM CONTRACT**H9.1 Existing Site conditions**

The Contractor shall take into account, *inter alia*, the following conditions when complying with the OHS Act:

- Live high, medium and low voltage electrical equipment
- Electrical switchgear filled with Sulfur Hexafluoride (SF₆)
- Anticipated weather conditions
- Work in confined spaces

H9.2 Environmental hazards

The following commonly used materials and substances potentially pose an environmental hazard:

- Sulfur Hexafluoride (SF₆)

H9.3 Hazardous substances (GNR 1179)

The following commonly used materials and substances potentially pose health and safety hazards:

- All materials contained in pressurised containers
- Insulating oils and compounds
- Electrical cleaning agents
- SF₆ decomposition products

H9.4 Fall protection (working at heights) (CR 10)**H9.5 Cranes (CR22)****H9.6 Electrical installations and machinery (EMR, CR24)****H9.7 Flammable liquids (CR 25)****H9.8 Confined spaces****H9.9 Other**

The high voltage GIS switchgear to be worked on, includes various mechanical and hydraulic drive mechanisms and energy storage devices.

H10 CCT HIGH VOLTAGE SUBSTATIONS: ADDITIONAL SAFETY SPECIFICATIONS :

H10.1 The work to be undertaken, will take place in high voltage substations located in proximity of other live equipment.

H10.2 No work may be commenced and executed without the required safety measures being implemented and receipt of a written permit, issued by a suitably authorised City of Cape Town High Voltage Operator.

Permits to Work can be obtained from:

- HV Substations (South): Mr Ralph February 021 400 4798 / 084 888 1066
- HV Substations (North): Mr Mxolisi Ngongomana 021 444 1563 / 073 864 2090
- HV Substation (East): Mr David Walker 021 444 1562 / 082 293 2579

H10.3 The Contractor must deploy a Responsible Person, appointed in terms of NRS 040 or Eskom ORHVS, on site to ensure that all work is carried out safely.

- H10.4** Besides the Responsible Person, all personnel deployed by the Contractor on site shall have been made aware of the safety risks present in high voltage installations and have been trained to execute all the specified work safely, and shall have previous work experience at high voltage installations.
- H10.5** Where work is required in a prohibited or restricted area of the substation, the Contractor's personnel must be accompanied by a suitably authorised person from CCT EGD – High Voltage division.
- H10.6** Should situations arise on site that are unsafe or appear to the personnel to be unsafe or dangerous, such personnel must promptly and applying reasonable judgement, interrupt their work on site and/or vacate the work site in order secure themselves and the work place. They must inform the Responsible Person without delay, and shall only resume work after the work site has been adequately made safe or the affected equipment is safe to work on again.

13.30 TRADE NAMES OR PROPRIETARY PRODUCTS

Bid specifications may not make any reference to any particular trade mark, name, patent, design, type, specific origin or producer, unless there is no other sufficiently precise or intelligible way of describing the characteristics of the work, in which case such reference must be accompanied by the words "or equivalent".

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS 'OR EQUIVALENT'

13.31 EMPLOYMENT OF SECURITY PERSONNEL

All security staff employed by the supplier on behalf of the CCT or at any CCT property must be registered with Private Security Industry Regulatory Authority (PSiRA). Proof of such registration must be made available to the CCT's agent upon request.

13.32 FORMS FOR CONTRACT ADMINISTRATION

The supplier shall complete, sign and submit with each invoice, the following:

- a) Monthly Project Labour Report (**Annexed**).

The Monthly Project Labour Report must include details of all labour (including that of sub-contractors) that are South African citizens earning less than R350.00 per day, as adjusted from time to time (excluding any benefits), who are employed on a temporary or contract basis on this contract in the month in question.

In addition to the Monthly Project Labour Report the Supplier shall simultaneously furnish the CCT's Agent with copies of the employment contracts entered into with such labour, together with certified copies of identification documents, proof of attendance in the form of attendance register or timesheets as well as evidence of payments to such labour in the form of copies of payslips or payroll runs. If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it and proof of such acknowledgement shall be furnished to the CCT's Agent.

[illegible]

MONTHLY PROJECT LABOUR REPORT

BENEFICIARY DETAILS AND WORK INFORMATION



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

CONTRACT OR WORKS PROJECT NUMBER:				Year Month		Sheet 1 of		
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No.	(8) First name	(8) Surname	(8) ID number	(9) New Beneficiary (Y/N)	Gender (M/F)	Disabled (Y/N)	(10) Job seeker database (Y/N)	Contract start date (DDMMYY)	(11) Contract end date (DDMMYY)	(12) No. days worked this month (excl. training)	(13) Training days	(14) Rate of pay per day (R – c)	
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Declared by Contractor or Vendor to be true and correct:	Name		Signature	
	Date			

Received by Employer's Agent / Representative:	Name		Signature	
	Date			