


<b>TENDER DOCUMENT GOODS AND SERVICES</b>		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD
<b>SUPPLY CHAIN MANAGEMENT</b>		
SCM - 542	Approved by Branch Manager: February 2024	Version: 10

<p><b>TENDER NO: 001S/2026/27</b></p> <p><b>TENDER DESCRIPTION: ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS</b></p> <p><b>CONTRACT PERIOD: 36 MONTHS FROM THE COMMENCEMENT DATE OF THE CONTRACT</b></p>
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<b>CLOSING DATE</b>	<b>1 September 2026</b>
<b>CLOSING TIME</b>	<b>10:00 am</b>
<b>TENDER BOX NUMBER</b>	<b>221</b>
<b>TENDER FEE</b>	<b>R200.00</b>

Non – refundable tender fee payable to the 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.

<b>TENDERER</b>	
<b>NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual (hereinafter the "Tenderer")</b>	
<b>TRADING AS (if different from above)</b>	
<b>Registration number of Tenderer</b>	
<b>Physical address and chosen domicilium citandi et executandi of Tenderer</b>	

<b>NATURE OF TENDER OFFER (please indicate below)</b>	
<b>Main Offer (see clause 2.2.11.1)</b>	
<b>Alternative Offer (see clause 2.2.11.1)</b>	

<b>TENDER SERIAL NO.:</b>
<b>SIGNATURES OF CCT OFFICIALS AT TENDER OPENING</b>
<b>1</b>
<b>2</b>
<b>3</b>

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## THE TENDER

### T.1 GENERAL TENDER INFORMATION

<b>TENDER ADVERTISED</b>	:	<b>3 July 2026</b>
<b>SITE VISIT/CLARIFICATION MEETING</b>	:	Time: <b>11:30</b> on Date: <b>24 July 2026</b> (Not compulsory, but strongly recommended)
<b>VENUE FOR SITE VISIT/CLARIFICATION MEETING</b>	:	<a href="https://teams.microsoft.com/meet/323612141158418?p=61yITyJxn7SXIVf50I">https://teams.microsoft.com/meet/323612141158418?p=61yITyJxn7SXIVf50I</a>  <b>Meeting ID: 323 612 141 158 418</b> <b>Passcode: gZ9Rt6rY</b>  <b>Non-compulsory Site visits will be arranged on request]</b>
<b>TENDER BOX &amp; ADDRESS</b>	:	<b>Tender Box as per front cover</b> at the <b>Tender &amp; Quotation Boxes Office</b> , 2 <sup>nd</sup> Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town.  : The Tender Document (which includes the Form of Offer and Acceptance) completed and signed 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 " <b>TENDER NO. 001S/2026/27: - TENDER DESCRIPTION: ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS</b> ", the tender box number, 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.
<b>CCT TENDER REPRESENTATIVE</b>	:	Email: <a href="mailto:SCM.Tenders23@capetown.gov.za">SCM.Tenders23@capetown.gov.za</a>

**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"**

## T.2 CONDITIONS OF TENDER

### 2.1 General

#### 2.1.1 Actions

**2.1.1.1** The City of Cape Town (hereafter referred to as the “CCT”) and each tenderer submitting a tender offer (hereinafter referred to as the “tenderer” or the “supplier”) shall comply with item T.2 of this Tender Document Goods and Services (hereinafter referred to as these “Conditions of Tender”). The tenderer and the CCT shall collectively hereinafter be referred to as the “Parties” and individually a “Party”). In their dealings with each other, the Parties shall discharge their duties and obligations as set out in these Conditions of Tender, timeously and with integrity, and behave equitably, honestly and transparently, and shall comply with all legal obligations imposed on the Parties herein and in accordance with all applicable laws.

**The Parties agree that this tender Tender Document Goods and Services (hereinafter referred to as the”Tender” / “Tender Document”), its evaluation and acceptance and any resulting 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 and as amended from time to time. If the CCT adopts a new SCM Policy which contemplates that any clause therein would apply to the Contract emanating from this tender (hereinafter referred to as the “Contract”), such clause shall also be applicable to that Contract. Please refer to this document contained on the CCT’s website.**

**Abuse of the supply chain management system is not permitted and may result, inter alia, (1) in the tender being rejected; (2) cancellation of the contract; (3) restriction of the supplier, and/or (4) the exercise by the CCT of any other remedies available to it as provided for in the SCM Policy and/or the the Contract and/or this tender and/or any applicable laws .**

**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 Annexure F to the contract (hereinafter referred to as the “returnable documents” / “Returnable Schedules”) are part of these Conditions of Tender and are specifically hereby incorporated into these Conditions of Tender.

**2.1.2.2** These Conditions of Tender and returnable Documents which are required for CCT’s tender evaluation purposes herein, shall form part of the Contract arising from the CCT’s corresponding 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 / tenderers by its Director: Supply Chain Management or his nominee. Similarly, any communication of the tenderer / supplier that is not reduced to writing by the tenderer / supplier, its employees, agents or advisors, shall not be regarded as binding on the CCT, unless communicated to the CCT in writing by the suppliers / tenderers, or their duly authorised representatives.

#### **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 corresponding 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 Conditions of Tender, a contract will be concluded with the tenderer who scores the highest number of tender adjudication points.

The CCT intends to appoint a single tenderer for the allocation of work and nominate a single standby bidder. 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 Bidder**

"Standby Bidder" means a bidder, identified by the CCT 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, as amended from time to time.

#### **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 CCT 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 CCT, 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

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- 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 CCT 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, Office of the City Manager  
**Via hand delivery at:** 20<sup>th</sup> Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001  
**Via post at:** Private Bag X918, Cape Town, 8000  
**Via email at:** [MSA.Appeals@capetown.gov.za](mailto: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, Legal Service Department, Office of the City Manager  
**Via hand delivery at:** 20<sup>th</sup> Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001  
**Via post at:** Private Bag X918, Cape Town, 8000  
**Via email at:** [Access2info.Act@capetown.gov.za](mailto: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).**

For purposes of this clause 2.1.6.6, the contract and these Conditions of Tender, the terms "data subject", "Personal Information" and "Processing" shall have the meaning as set out in section 1 of POPIA, and "Process" shall have the corresponding meaning.

The CCT, its employees, representatives and sub-contractors may, from time to time, Process the tenderer's and/or its employees', representatives' and/or sub-contractors' Personal Information, for purposes of, and/or relating to, the tender, the contract and these Conditions of Tender, for research purposes, and/or as otherwise may be envisaged in the CCT's Privacy Notice and/or in relation to the CCT's Supply Chain Management Policy or as may be otherwise permitted by law. This includes the Processing of the latter Personal Information by the CCT's due diligence assurance provider, professional advisors and the Appeal Authority as applicable. The CCT's justification for the processing of such aforesaid Personal Information is based on section 11(1)(b) of POPIA, i.e., in terms of which the CCT's Processing of the said Personal Information is necessary to carry out actions for the conclusion and/or performance of the contract, to which the applicable data subject (envisaged in this clause 2.1.6.6 above) is a party.

All requests relating to data protection must be submitted in writing to:  
**The City Manager** - C/o the Information Officer, Office of the City Manager  
**Via hand delivery at:** 20<sup>th</sup> Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001  
**Via post at:** Private Bag X9181, Cape Town, 8000  
**Via email at:** [Popia@capetown.gov.za](mailto:Popia@capetown.gov.za).

**2.1.6.7 Compliance to the CCTs Appeals Policy.**

In terms of the CCT's Appeals Policy, a fixed upfront administration fee will be charged. In addition, a surcharge may be imposed for vexatious and frivolous or otherwise manifestly inappropriate 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 attached as Annexure F.13: Appeal Application Form. Alternatively, via EFT into the CCT's NEDBANK Account: CITY OF CAPE TOWN and using Reference number: 198158966. You are required to send proof of payment when lodging your appeal.

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The current surcharge for vexatious and frivolous or otherwise manifestly inappropriate tender related appeals will be calculated as  $\frac{1}{2}$  (Administrative cost of the tender appeal) + 0.25 % (Appellant's tender price).

Should the payment of the administration fee of R300.00 or the surcharge not be received, such fee or surcharge will be added as a Sundry Tariff to the bidder's municipal account.

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

### **2.1.7 CCT 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 CCT's Supplier Database may collect registration forms from the Supplier Management Unit located within the Supplier Management / Registration Office, 2<sup>nd</sup> 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 CCT's website [www.capetown.gov.za](http://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 and the Conditions of Tender. An 'acceptable tender must "COMPLY IN ALL" aspects with the tender, Conditions of Tender, all Specifications (i.e., item C.5 below, hereinafter the "Specifications"), pricing instructions herein and the Contract including its conditions.**

#### **2.2.1.1.1 Submit a tender offer**

Only those tender submissions from which it can be established, *inter alia* 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 below 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 below to be completed);

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- c) A copy of the partnership / joint venture / consortium agreement to be provided, where applicable.
- 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 below 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 below 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 below to be completed);
- g) The tenderer (including any of its representatives, 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, who is directly or indirectly involved or associated with the bid specification committee;
- k) A completed **Authorisation for the Deduction of Outstanding Amounts Owed to the CCT** to be provided and which does not indicate any details that renders the tender non-responsive based on the conditions contained thereon (applicable schedules below to be completed);
- l) The tenderer (including any of its representatives, 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 representatives, 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**

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.

<b>Evaluation Criteria</b>	<b>Applicable values/points</b>	<b>Weight</b>
<b>Company Previous Overall Experience</b>  <b>Schedule 13 A</b>  Specific to established rotating electrical machine maintenance specialist for machines rated above 30 MVA and 10 kV	<ul style="list-style-type: none"> <li>• Less than 5 Years Experience – 0 Points</li> <li>• 5 years but less than 7 Years – 20 Points</li> <li>• 7 years but less than 9 years – 30 Points</li> <li>• 9 years and greater – 40 Points</li> </ul>	40
<b>Company previous specific Experience</b>  <b>Schedule 13 B</b>  Specific to established rotating electrical machine maintenance specialist for machines rated above 30 MVA and 10 kV	<ul style="list-style-type: none"> <li>• Stator Rewinding                             <ul style="list-style-type: none"> <li>○ No previous rewind occurrences – 0 Points</li> <li>○ 1 rewind – 5 Points</li> <li>○ 2 rewinds – 10 Points</li> <li>○ 3 rewinds – 20 Points</li> </ul> </li> <li>• Rotor Balancing                             <ul style="list-style-type: none"> <li>○ No previous balancing of Rotor – 0 Points</li> <li>○ 1 balancing – 5 Points</li> <li>○ 2 balancing – 10 Points</li> <li>○ 3 balancing – 20 Points</li> </ul> </li> <li>• Rotor Pole or Rotor Rewinding – 0 Points</li> </ul>	60

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	<ul style="list-style-type: none"><li>○ No previous Rotor Pole or Rotor rewinds – 0 Points</li><li>○ 1 Rotor Pole or Rotor rewind – 5 Points</li><li>○ 2 Rotor Pole or Rotor rewinds – 10 Points</li><li>○ 3 Rotor Pole or Rotor rewinds – 20 Points</li></ul>	
<b>Total</b>		100

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

Where the entity tendering is a Joint Venture, the tenderer’s tender response 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.

A more detailed explanation of the functionality criteria is given below:

**Company General Experience – Schedule 13.A**

The City of Cape Town requires a main contractor that has substantial experience in maintaining Hydro Power Stations as well as Gas Turbines. It is on this basis that the Previous General Experience in maintaining Rotating Electrical Machinery was derived. Only experience on machines with an output of 30 MVA and a voltage rating of 10KV will be considered. The period of years will be calculated by adding the consecutive months of company contracts. Should you require more space for your experience, you can reprint the schedules and insert them after the last schedule 13.A returnable schedule.

**Company Specific Experience – Schedule 13.B**

The City of Cape Town has also identified the main works which will prove the main contractor is in the correct field of works as well as works that have been pivotal to the continued operation of our generation assets.

It should be noted only occurrences on machines with an output of 30 MVA and a voltage rating of 10KV will be considered. Each occurrence will be counted, and the total will be the score for that specific section of the Functionality table. You can not mass more than the 20 points for each section, so for example, 12x Rotor Balancing occurrences will still only score 20 points.

The points will be tallied and a score out of 100 will be finalised. The passing score for functionality is 70 out of 100.

Failure to complete above schedules will result in the score for that specific section being scored as a zero and will result in the tenderer not achieving the minimum score for functionality.

**2.2.1.1.7 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**

The tenderer shall treat as strictly 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**

The tenderer shall 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 document(s) by reference.

**2.2.6 Acknowledge and comply with notices**

The tenderer shall acknowledge receipt of notices to the tender documents, which the CCT may issue, and shall fully comply with all instructions issued in the said 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.

**2.2.7 Clarification meeting**

The tenderer shall 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 (i.e., in item T.1 above).

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

**2.2.8 Seek clarification**

The tenderer shall 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 (i.e., in item T.1 above), where possible.

**2.2.9 Pricing the tender offer**

**2.2.9.1** The tenderer shall comply with all pricing instructions as stated on the Price Schedule.

**2.2.10 Alterations to documents**

The tenderer shall 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 Conditions of Tender, the tenderers may submit alternative tender

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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/she/it 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 tender offer to 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 as set out in the tender document.

**2.2.11.2** Acceptance of an alternative tender offer by the CCT may be based only on the criteria stated in the Conditions of Tender or applicable criteria otherwise acceptable to the CCT.

**2.2.12 Submitting a tender offer**

**2.2.12.1** The tenderer is required to 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 Conditions of Contract and described in the Specifications. Only those tenders submitted on the tender documents as issued by the CCT together with all Tender Returnable Documents duly completed and signed will be declared responsive.

**2.2.12.2** The tenderer shall return the entire tender 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** The tenderer shall sign the original tender offer where required in terms of the Conditions of Tender. The tender shall be signed by a person duly authorised by the tenderer to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation / founding document 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.

**2.2.12.4** Where a two-envelope system is required in terms of the Conditions of Tender, place and seal the returnable documents listed in the Conditions of Tender 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 (i.e., item T.1 above), as well as the tenderer's name and contact address.

**2.2.12.5** The tenderer shall 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.

**2.2.12.6** 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.

**2.2.12.7** Tender offers submitted by facsimile or e-mail will be rejected by the CCT, unless stated otherwise in the Conditions of Tender.

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**2.2.12.8** By signing the offer part of the Form of Offer (**Section 5, Part A hereto**) the tenderer warrants and agrees that all information provided in the tender submission is true and correct.

**2.2.12.9** Tenderers shall properly deposit its bid 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.

**2.2.12.10** 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**

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** The tenderer shall ensure that the CCT receives the tender offer, together with all applicable documents specified herein, at the address specified in the General Tender Information herein prior to the closing time stated on the front page of the tender document.

**2.2.14.2** 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** 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** The tenderer shall warrant 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 in clause 2.2.15.1 above, bids shall remain valid for acceptance for a period of twelve (12) months after the expiry of the original validity period, unless the CCT 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 by the parties, administrative processes and upon approval by the City Manager, unless the required extension is as a result of an appeal process or court ruling.

In circumstances where the validity period of a tender has expired, and the tender has not been awarded, the tender process is considered "completed", despite there being no decision (award or cancellation) made. This anomaly does not fall under any of the listed grounds of cancellation and should be treated as a "non award". A "non award" is supported as a recommendation to the CCT's Bod Adjudication Committee ("BAC") for noting.

**2.2.15.3** A tenderer may request in writing, after the closing date, that its 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

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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, without prejudice to the CCT's other rights and/or remedies available to it in accordance with any applicable laws.

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

Tenderer's shall promptly provide clarification of its 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** Tenderer's shall promptly provide, upon 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** The tenderer shall 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 entity to a Consortium/Joint Venture bid shall submit separate certificates/statements in the above regard.

**2.2.17.3** Tenderers shall be required to 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**

Tenderers shall provide access during working hours to premises for inspections, tests and analysis as provided for in the Conditions of Tender or Specifications.

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

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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. Preference Points for Specific Goals**

In order to qualify for preference points for HDI and/or Specific Goals, it is the responsibility of the tenderer to submit documentary proof (Company registration certification, Central Supplier Database report, BBBEE certificate, Proof of Disability, Financial Statements, commissioned sworn affidavits, etc.) in support of tenderer claims for such preference 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 issued by SARS to the CCT at the Supplier Management Unit located within the Supplier Management / Registration Office, 2<sup>nd</sup> 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 record 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.

Before making an award the CCT 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 CCT, 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 CCT via CSD or e-Filing. The CCT 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**

By responding to the tender herein, 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

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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.

**2.2.22 Collection and issuing of tender documents**

The CCT will only issue tender documents through its Tender Distribution Office and/or the official CCT tender portal. Bidders who obtain documents through any means other than described herein, will not be known to the CCT and may thus not receive tender notices and addendums. Tenderers are not allowed to distribute tender documents to other potential bidders.

It is the responsibility of bidders who obtain documents through any means other than described herein, to notify the CCT tender representative thereof that they are participating in the tender. The CCT accepts no liability for any tender notices or addendums not reaching any bidders, who obtained documents through any means other than described herein or who provided incorrect contact details to the CCT.

**2.3 The CCT's undertakings****2.3.1 Respond to requests from the tenderer**

**2.3.1.1** Unless otherwise stated in the Conditions of Tender, the CCT shall 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 duly authorised representative for the purpose of this tender is stated on the General Tender Information page above.

**2.3.2 Issue Notices**

If necessary, the CCT may 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 CCT 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, CCT shall open tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the Conditions of Tender.

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.

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**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 Conditions of Tender that a two-envelope system is to be followed, the CCT shall 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 Conditions of Tender and announce the name of each tenderer whose technical proposal is opened.

**2.3.4.2** The CCT shall 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. The CCT shall open only the financial proposals of tenderers, who have submitted responsive technical proposals in accordance with the requirements as stated in the Conditions of Tender, and announce the total price and any preference claimed. Return unopened financial proposals to tenderers whose technical proposals were non responsive.

**2.3.5 Non-disclosure**

The CCT shall 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**

The CCT shall 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) Detrimentially 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** The CCT may 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 Conditions of Tender.

**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

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- 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 (Section 7)**:

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 80/20 preference point system will apply to this tender

The 80/20 price/preference points system will be applied to the evaluation of responsive tenders up to and including 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:

$$P_s = 80 \times \left( 1 - \frac{(P_t - P_{min})}{P_{min}} \right)$$

Where:  $P_s$  is the number of points scored for price;  
 $P_t$  is the price of the tender under consideration;  
 $P_{min}$  is the price of the lowest responsive tender.

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

**Table B1: Awards above R750 000 and up to R50 mil (VAT Inclusive)**

#	Specific goals allocated points	Preference Points (80/20)
	<i>Reconstruction and Development Programme (RDP) as published in Government Gazette</i>	
1	<p><b>Promotion of Micro and Small Enterprises</b></p> <p><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></p> <p><i>SME partnership, sub-contracting, joint venture or consortiums</i></p>	8
2	<p><b>Enterprise Supplier Development and Socio Economic Development</b></p> <p><i>&gt; 15% of total expenditure = 6 points</i></p> <p><i>&gt; 12% up to 15% of total expenditure = 5 points</i></p> <p><i>&gt; 9% up to 12% of total expenditure = 4 points</i></p> <p><i>&gt; 6% up to 9% of total expenditure = 3 points</i></p> <p><i>&gt; 3% up to 6% of total expenditure = 2 points</i></p> <p><i>&gt;= 1% up to 3% total expenditure = 1 points</i></p> <p><i>&lt; 1% of total expenditure = 0 points</i></p>	6
3	<p><b>Skills Development OR Employee Share Scheme</b></p> <p><b>Skills Development</b></p> <p><i>&gt; 5% of total profit = 6 points</i></p> <p><i>&gt; 4% up to 5% of total profit = 5 points</i></p> <p><i>&gt; 3% up to 4% of total profit = 4 points</i></p> <p><i>&gt; 2% up to 3% of total profit = 3 points</i></p> <p><i>&gt; 1% up to 2% of total profit = 2 points</i></p> <p><i>&gt;= 0.5% up to 1% of total profit = 1 points</i></p> <p><i>&lt; 0.5% of total profit = 0 points</i></p> <p><b>OR Employee Share Scheme</b></p> <p><i>&gt; 15% employee ownership = 6 points</i></p> <p><i>&gt; 12% up to 15% employee ownership = 5 points</i></p> <p><i>&gt; 9% up to 12% employee ownership = 4 points</i></p> <p><i>&gt; 6% up to 9% employee ownership = 3 points</i></p> <p><i>&gt; 3% up to 6% employee ownership = 2 points</i></p> <p><i>&gt;= 1% to 3% employee ownership = 1 points</i></p> <p><i>&lt; 1% employee ownership = 0 points</i></p>	6
	<b>Total points</b>	<b>20</b>

### 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 CCT'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 CCT's procurement,

**TENDER NO: 001S/2026/27**

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

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

**2.3.12.4** The CCT reserves the right 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 CCT 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 CCT;
- d) negative media reports, including negative social media reports;
- e) adverse assurance (e.g. due diligence) report outcomes; and
- 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 the 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 an 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

<b>TENDER DOCUMENT GOODS AND SERVICES</b>		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD
<b>SUPPLY CHAIN MANAGEMENT</b>		
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<p><b>TENDER NO: 001S/2026/27</b></p> <p><b>TENDER DESCRIPTION: ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS</b></p> <p><b>CONTRACT PERIOD: 36 MONTHS FROM THE COMMENCEMENT DATE OF THE CONTRACT</b></p>
--

## THE CONTRACT

<b>THE CITY OF CAPE TOWN</b>	
A metropolitan municipality, established in terms of the Local Government: Municipal Structures Act, 117 of 1998 read with the Province of the Western Cape: Provincial Gazette 5588 dated 22 September 2000, as amended (“the Purchaser”) herein represented by	
<b>AUTHORISED REPRESENTATIVE</b>	

AND

<b>SUPPLIER</b>	
<b>NAME</b> of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual (The “Supplier” / “tenderer”)	
<b>TRADING AS</b> (if different from above)	
<b>REGISTRATION NUMBER</b>	
<b>PHYSICAL ADDRESS / CHOSEN DOMICILIUM CITANI ET EXECTUANDI OF THE SUPPLIER</b>	
<b>AUTHORISED REPRESENTATIVE</b>	
<b>CAPACITY OF AUTHORISED REPRESENTATIVE</b>	

(HEREINAFTER COLLECTIVELY REFERRED TO AS “THE PARTIES” AND INDIVIDUALLY A “PARTY”)

<b>NATURE OF TENDER OFFER</b> (please indicate below)	
<b>Main Offer</b> (see clause 2.2.11.1)	
2.2.11.1)	

## C.1 DETAILS OF TENDERER/SUPPLIER

### 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):

<b>Name of Company / Close Corporation or Partnership / Joint Venture / Consortium or Individual /Sole Proprietor</b>	
<b>Trading as</b> (if different from above)	
<b>Company / Close Corporation registration number</b> (if applicable)	
<b>Postal address</b>	Postal Code _____
<b>Physical address</b> (Chosen Domicilium Citandi Et Executandi)	Postal Code _____
<b>Contact details of the person duly authorised to represent the tenderer</b>	Name: Mr/Ms _____ <span style="margin-left: 150px;">(Name &amp; Surname)</span> Telephone :( _____) _____ Fax :( _____) _____ Cellular Telephone: _____ E-mail address: _____
<b>Income tax number</b>	
<b>VAT registration number</b>	
<b>SARS Tax Compliance Status PIN</b>	
<b>CCT Supplier Database Registration Number</b> (See Conditions of Tender)	
<b>National Treasury Central Supplier Database registration number</b> (See Conditions of Tender)	
<b>Is tenderer the accredited representative in South Africa for the Goods / Services / Works offered?</b>	<input type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No</span> If yes, enclose proof
<b>Is tenderer a foreign based supplier for the Goods / Services / Works offered?</b>	<input type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No</span> If yes, answer the Questionnaire to Bidding Foreign Suppliers (below)
<b>Questionnaire to Bidding Foreign Suppliers</b>	a) Is the tenderer a resident of the Republic of South Africa or an entity registered in South Africa? <input type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No</span>
	b) Does the tenderer have a permanent establishment in the Republic of South Africa? <input type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No</span>
	c) Does the tenderer have any source of income in the Republic of South Africa? <input type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No</span>
	d) Is the tenderer liable in the Republic of South Africa for any form of taxation? <input type="checkbox"/> Yes <span style="margin-left: 100px;"><input type="checkbox"/> No</span>
<b>Other Required registration numbers</b>	

**C.2 FORM OF OFFER AND ACCEPTANCE**

**TENDER [ELECTRICITY GENERATION GENERATOR AND  
ANCILLIARY SERVICES AND PARTS 001S/2026/27**

**C.2.1 Offer (To Be Completed by the Tenderer as Part of Tender Submission)**

The tenderer, identified in the offer signature table below,

**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.

SIGNED AT \_\_\_\_\_ (PLACE) ON THE \_\_\_\_\_ (DAY) OF \_\_\_\_\_ (MONTH AND YEAR)

\_\_\_\_\_  
For and on behalf of the Supplier  
(Duly Authorised)  
Name and Surname:

\_\_\_\_\_  
Witness 1 Signature  
Name and Surname:

\_\_\_\_\_  
Witness 2 Signature  
Name and Surname:

INITIALS OF CCT OFFICIALS		
1	2	3

**FORM OF OFFER AND ACCEPTANCE (continued)**

**TENDER ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS 001S/2026/27**

**C.2.2 Acceptance (To Be Completed by the CCT)**

By signing this part of this *Form of Offer and Acceptance*, the CCT accepts the tenderer's (if awarded the Supplier's) offer. In consideration thereof, the CCT shall pay the Supplier the amount due in accordance with the conditions of contract. Acceptance of the Supplier's offer shall form an agreement between the CCT and the Supplier upon the terms and conditions contained in this document.

The terms of the agreement are contained in the Contract (as defined) including drawings and documents or parts thereof, which may be incorporated by reference.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the *Tender Returnable Documents* as well as any changes to the terms of the offer agreed by the tenderer and the CCT 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 the *Schedule of Deviations*.

The Supplier shall within 2 (two) weeks after receiving a complete, copy of the Contract, including the *Schedule of Deviations* (if any), contact the CCT to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms the *Special Conditions of Contract*. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation / breach of the agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the Commencement Date, being the date upon which the Supplier confirms receipt from the CCT of 1 (one) complete, signed copy of the Contract, including amendments or deviations contained in the *Schedule of Deviations* (if any).

\_\_\_\_\_  
For and on behalf of the City of Cape Town  
(Duly Authorised)  
Name and Surname:

\_\_\_\_\_  
Witness 1 Signature  
Name and Surname:

\_\_\_\_\_  
Witness 2 Signature  
Name and Surname:

ONLY TO BE AT  
COMPLETED AT  
ACCEPTANCE STAGE

**FORM OF OFFER AND ACCEPTANCE (continued)**

**TENDER ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS 001S/2026/27**

**C.2.3 Schedule of Deviations (To be Completed by the CCT upon Acceptance)**

**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 to become an obligation of the Contract, shall be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here, shall form part of the Contract.

1 Subject .....

Details .....

2 Subject .....

Details .....

3 Subject .....

Details .....

4 Subject .....

Details .....

ONLY TO BE COMPLETED AT ACCEPTANCE STAGE

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 *Tender Returnable Documents*, 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 Commencement Date, shall have any meaning or effect between the Parties arising from the agreement.

**FORM OF OFFER AND ACCEPTANCE (continued)**

**TENDER ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS 001S/2026/27**

**C.8 ANNEXURES**

**C.2.4 Confirmation of Receipt (To be Completed by Supplier upon Acceptance)**

The Supplier identified in the offer part of the Contract hereby confirms receipt from the CCT of 1 (one) complete, signed copy of the Contract, including the *Schedule of Deviations* (if any) on:

The..... (Day)

Of..... (Month)

20..... (year)

At..... (Place)

For the Supplier: Signature(s) .....

Name(s) .....

Capacity .....

Signature and name of witness: .....

Signature ..... Name .....

ONLY TO BE COMPLETED AT ACCEPTANCE STAGE

**C.3 OCCUPATIONAL HEALTH AND SAFETY AGREEMENT**

**AGREEMENT MADE AND ENTERED INTO BETWEEN THE CCT (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 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 ( hereafter "OHS") 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 OHS and the Regulations and to charge him/them with the duty of ensuring that the provisions of OHS 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 at .....on the.....day of.....20....

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Mandatory

Signed at..... on the.....day of.....20 ....

\_\_\_\_\_  
Witness

\_\_\_\_\_  
for and on behalf of

ONLY TO BE  
COMPLETED AT  
ACCEPTANCE STAGE

## C.4 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'**

**PLEASE NOTE: AN ELECTRONIC VERSION OF THE PRICING SCHEDULE IS AVAILABLE ON THE CITY TENDER PORTAL [Procurement Administration Portal \(capetown.gov.za\)](https://www.capetown.gov.za). THE DOCUMENT NEEDS TO BE PRINTED, SIGNED AND INSERTED BELOW THIS PAGE.**

### Use of Electronic Schedules by Tenderers

Tenderers are encouraged to:

- Complete the issued Excel schedule (without altering structure, formulae, or formatting).
- Submit both a printed hard copy and an electronic copy via portable media: USBs.
- Notify Bid evaluation committee of electronic submission, by signing the Returnable Schedule: Declaration of Tendered Rates (see attached Annexure A[VT1.1]), that both copies are identical and that any conflict will be resolved in favour of the printed version.

**While the City is adopting electronic schedules as a practice, Regulation 22(4) of the SCM Regulations still requires that hard-copy submissions remain the official, binding record. The printed version therefore prevails where discrepancies occur between electronic and paper copies.**

**TENDER NO: 001S/2026/27**

**Detailed Particulars of Service Items–Work Scope according to the Technical Specification” Clause 2.0**

Price quoted in this schedule shall be for Detailed Particulars of specified Service Items inclusive of all cleaning materials, tools and equipment. Excluding travel, transport, accommodation and traveling time, but shall include labour based on normal working hours (07:30 to 16:00).

**SECTION A: SEE CLAUSE 2.0 SCOPE OF WORK:**

**SCHEDULE OF DETAILED PARTICULARS OF SERVICE ITEMS – WORKSCOPE TO SPECIFICATION FOR: REPAIR SERVICES FOR STEENBRAS 3.3 KV PONY MOTORS AND 12 KV GENERATORS**

DESCRIPTION	ITEM	WORK SCOPE	UNIT	Pricing per unit for Year One	Pricing per unit for Year Two	Pricing per unit for Year Three	CPA Mechanism Selected	
				(EXcl vat)	(EXcl vat)	(EXcl vat)		
				R	R	R		
<b>SECTION A: Steenbras Pumped Storage Scheme</b>								
Site establishment	1.1	Preliminaries and Generals for site visits for a lengthy repair session. (Applicable to all sites)	session	R	R	R	Fixed Pricing	
Occupational Health and Safety	1.2	Costs of compliance with Safety Specification for each site repair session	session	R	R	R	Fixed Pricing	
Pony Motor Rotor	2	<b>Inspection of the rotor for defects and repair as required and compilation of a report including but not limited to details of items 2.1 – 2.4:</b>						
Windings, slot wedges and support blocks	2.1	Cleaning the rotor	Rotor	R	R	R	Fixed Pricing	
	2.2	Test and repair loose support blocks of winding overhang.	Per Block	R	R	R	Fixed Pricing	
	2.3	Test for loose slot wedges and replace as required.	Per slot	R	R	R	Fixed Pricing	
	2.4	Electrical test of rotor which shall include meggar insulation test	Rotor	R	R	R	Fixed Pricing	
Specialist Labour relating to Liquid Resistance Starters	2.5	Contract Hourly Rate for a Liquid Resistance Starter Specialist Engineer	Per Hour	R	R	R	Fixed Pricing	
	2.6	Contract hourly rate for a Liquid Resistance Starter Specialist technician	Per Hour	R	R	R	Fixed Pricing	
	2.7	Contract hourly rate for a skilled worker	Per Hour	R	R	R	Fixed Pricing	
	2.8	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing	
Unspecified Parts relating to Liquid Resistance Starters	2.9	Unspecified spare parts for the purpose of repairs to Liquid Resistance Start System. See specification 22 - Liquid Resistance Starters	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9	
Generator/motor Rotor	3	<b>Inspection of the rotor for defects and repair as required and compilation of a report including but not limited to details of items 3.1 – 3.4: as follows:</b>						
Windings, “Y” clamps and damper windings	3.1	Clean and inspect the rotor poles, “Y” winding support clamps, damper windings and connections, field connections and support studs for defects and repair as required.	Per 1 Pole	R	R	R	Fixed Pricing	
	3.2	Repair to rotor pole (optional item where pole is removed from the rotor) salient pole laminations requiring additional packing and lamination weld repairs (usually conducted on site).	Per 1 Pole	R	R	R	Fixed Pricing	
	3.3	Rewind and rebuild of salient rotor pole to become a “universal pole” (see 3.0 for detail) (Optional item if required to be performed in the Contractors works).	Per 1 Pole	R	R	R	Fixed Pricing	

			<b>INITIALS OF CCT OFFICIALS</b>		
<b>Signature of Tenderer</b>	<b>Date</b>	<b>Name and Surname</b>	<b>1</b>	<b>2</b>	<b>3</b>

**TENDER NO: 001S/2026/27**

Windings, “Y” clamps and damper windings .	3.4	Rewind and rebuild of salient rotor poles of a complete unit to become a “universal pole” (see 3.0 for detail) (Optional item if required to be performed in the Contractors works). Pricing is to include insurance as per specification 11.9	Per 1 Pole	R	R	R	Fixed Pricing
	3.5	Transport of single rotor pole from Steenbras power station to Contractor’s works and return to Steenbras power station for rotor pole (including crating but excluding insurance)(Optional item if 3.4 and 3.5 is required) Transportation insurance to be included as per Specification 11.9	Per return delivery of single pole	R	R	R	Fixed Pricing
	3.6	Salient Rotor Pole Insulation Kit – required to successfully insulate a single complete Salient Rotor Pole	Each	R	R	R	Fixed Pricing
	3.7	<u>Crack propagation:</u> Including preparation and delivery of report detailing: 1. 3D-analysis of the pole fixation for both standard and modified (re-shaped) contour of the slots in the rim as well as the hammerhead of the poles.	Per Rotor Assembly (Complete)	R	R	R	Fixed Pricing
		2. Calculation of crack propagation and critical crack depth.					Fixed Pricing
3.8	NDT Inspection of Pole to Rotor fixation points. Including preparation and delivery of report detailing findings and recommendations.	Per 1 Pole	R	R	R	Fixed Pricing	
Windings, “Y” clamps and damper windings .	3.9	Machining (re-shaped) contours of the slots in the rotor rim. Including subsequent NDT inspection and preparation and delivery of report detailing findings and recommendations.	Per Unit (10 Pole Slot Pairs)	R	R	R	Fixed Pricing
	3.10	Machining (re-shaped) contours of the hammerhead fixing of the poles. Including subsequent NDT inspection and preparation and delivery of report detailing findings and recommendations.	Per 1 Pole	R	R	R	Fixed Pricing
	3.11	Machining (re-shaped) contours of the hammerhead fixing of the poles. Including subsequent NDT inspection and preparation and delivery of report detailing findings and recommendations.	Per Unit (10 Poles)	R	R	R	Fixed Pricing
	3.12	Dissipation Factor / Tan Delta Tests <b>to include report as per specification</b>	Per Hour	R	R	R	Fixed Pricing
Pony Motor Stator	4.1	Test for loose winding overhang support blocks and repair.	Each	R	R	R	Fixed Pricing
	4.2	Test for loose stator slot wedges and replace as required.	Per Slot	R	R	R	Fixed Pricing
	4.3	Electrical test of stator windings (Polarisation index) as per Section 19.4.2 “Tests at Site”.	Per Stator	R	R	R	Fixed Pricing
Generator/Motor Stator	5.1	Electrical test of stator windings (Polarisation index) per Section 19.4.2 “Tests at Site”.	Per Stator	R	R	R	Fixed Pricing
	5.2	Inspect and test stator core clamping bolts for tightness and insulation in satisfactory condition.	Per Stator	R	R	R	Fixed Pricing
	5.3	Test for loose stator slot wedges and replace as required.	Per slot	R	R	R	Fixed Pricing
	5.4	Repair of affected Corona areas (price per each affected area)	Per Square Meter	R	R	R	Fixed Pricing
	5.5	Inspect surge support ring for tightness / re secure, inclusive of all materials	Per ring	R	R	R	Fixed Pricing
	5.6	Supply of overhang support blocks (if not available on free issue)	Per 10	R	R	R	Fixed Pricing
	5.7	Supply of slot wedges (if not available on free issue)	Per whole row	R	R	R	Fixed Pricing
	5.8	Insulating materials and paint (if not available on free issue)	kg	R	R	R	Fixed Pricing
Generator/Motor Stator	5.9	Corona shield and Grading Paints (if not available on free issue)	kg	R	R	R	Fixed Pricing
	5.10	Rotor pole fixing wedges. (Set of eight.)	Per Set	R	R	R	Fixed Pricing
	5.11	Drying of stator winding insulation to obtain required polarization index. Shall include: Provision of minimum of 900Amp current source. On site 24 hour supervision of drying process. Connection or removal of drying equipment and reinstatement of winding connections. One Polarisation Index test to be carried out per 24 hour period (day). (optional item only if required)	Stator per seven continuous days	R	R	R	Fixed Pricing
	5.12	Removal and re-fitting of stator winding coil (per top bar), including all slot wedges, insulation material, coil overhang bonding, blocking, tape, resins semi conductive varnishes and slot packing, TVA testing of replacement bar on trestles, as installed and for entire winding for all three phases on completion of replacement.	Per top bar	R	R	R	Fixed Pricing
	5.13	Removal and re-fitting of stator winding coil (per bottom bar), including all slot wedges, insulation material, coil overhang bonding, blocking, tape, resins semi conductive varnishes and slot packing, TVA testing of replacement bar on trestles, installed and for entire winding for all three phases on completion of replacement.	Per bottom bar	R	R	R	Fixed Pricing

			<b>INITIALS OF CCT OFFICIALS</b>		
<b>Signature of Tenderer</b>	<b>Date</b>	<b>Name and Surname</b>	<b>1</b>	<b>2</b>	<b>3</b>

**TENDER NO: 001S/2026/27**

<b>Generator/Motor Stator and Rotor</b>	6.1	Dry ice cleaning of stator and rotor windings (optional item only if required)	Per Machine	R	R	R	Fixed Pricing
<b>Brush Gear System</b>	7.1	Contract hourly rate for a Brush Gear Specialist Engineer	Per Hour	R	R	R	Fixed Pricing
	7.2	Contract hourly rate for a Brush Gear Specialist Technician	Per Hour	R	R	R	Fixed Pricing
	7.3	Contract hourly rate for a Brush Gear Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	7.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	7.5	Spare Brush for Generator. See specification 23	Each	R	R	R	Fixed Pricing
	7.6	Spare Brush Holder for Generator. See specification 23	Each	R	R	R	Fixed Pricing
<b>Unspecified Parts relating to Generator Stator System and linked plant</b>	7.7	Unspecified spare parts for the purpose of repairs to Generator Stator System and linked plant.	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9
<b>Generator Vertical Shaft</b>	8.1	Vibration analysis for large rotating machinery including report.	Per Hour	R	R	R	Fixed Pricing
	8.2	Balancing of vertical shaft	Per Hour	R	R	R	Fixed Pricing
<b>Steenbras Power Station Plant Motors and Pumps</b>	8.3	Vibration Analysis for small ancillary rotating machinery including report with metrics and recommendations	Per Hour	R	R	R	Fixed Pricing
<b>Vibration Analysis and Systems</b>	8.4	Unspecified spare parts for the purpose of repairs to Vibration measurement systems and linked plant. See specification 1.3.1.8	Per Repair	%	%	%	Fixed Pricing
<b>Excitation System</b>	9.1	Contract hourly rate for an Excitation Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	9.2	Contract hourly rate for an Excitation Specialist technician	Per Hour	R	R	R	Fixed Pricing
	9.3	Contract hourly rate for an Excitation Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	9.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	9.5	Unspecified spare parts for the purpose of repairs to Excitation Systems and linked plant. See specification 24 - Excitation System	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9
<b>SECTION B: For Hourly and General Rates:</b>							
<b>Rates will be based on an 8-hour shift, inclusive of meal, tea and non-productive breaks.</b>	10.1	Contract hourly rate for an engineer	Per Hour	R	R	R	Fixed Pricing
	10.2	Contract hourly rate for a technician	Per Hour	R	R	R	Fixed Pricing
	10.3	Contract hourly rate for a supervisor	Per Hour	R	R	R	Fixed Pricing
	10.4	Contract hourly rate for a senior winder	Per Hour	R	R	R	Fixed Pricing
	10.5	Contract hourly rate for a skilled worker	Per Hour	R	R	R	Fixed Pricing
	10.6	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	10.7	Contract hourly rate for a un-skilled worker	Per Hour	R	R	R	Fixed Pricing
	10.8	Contract hourly rate for an Artisan	Per Hour	R	R	R	Fixed Pricing
	11.1	OEM Services Generation Sites Plant (See specification 5.1.5)	Per Occurrence	%	%	%	Fixed Pricing. See pricing instruction 5.9
	11.2	OEM Parts Generation Sites Plant (See specification 5.1.5)	Per Occurrence	%	%	%	Fixed Pricing. See pricing instruction 5.9
	11.3	Unspecified Adhoc Parts / Materials Required for Repairs to Generation Site Plant (See Specification 5.1.4)	Per Occurrence	%	%	%	Fixed Pricing. See pricing instruction 5.9
	11.4	Unspecified Adhoc Services Required for Repairs to Generation Site Plant (See Specification 5.1.4)	Per Occurrence	%	%	%	Fixed Pricing. See pricing instruction 5.9

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<b>Site Staff Travelling &amp; Accommodation</b>	11.5	Economy class airfares return trip per site to be provided at cost plus tendered administrative charge. Proof to be submitted with all claims.	Per Occurrence	Insert % Maximum of 10%	Insert % Maximum of 10%	Insert % Maximum of 10%	Fixed Pricing
	11.6	All car hire costs for site staff commute to site from accommodation incorporating kilometres required to be provided at cost plus tendered administrative charge. (Class Economy Vehicle )	Per vehicle	Insert % Maximum of 10%	Insert % Maximum of 10%	Insert % Maximum of 10%	Fixed Pricing
	11.7	Accommodation & Meals for B&B in area as close as possible to the respective sites.	Per Day for 1 person	R	R	R	Fixed Pricing
	11.8	Travelling by Motor Vehicle – Class 1 as defined by AA	Per KM	R	R	R	Fixed Pricing
	11.9	Travelling by Motor Vehicle – Class 2 as defined by AA	Per KM	R	R	R	Fixed Pricing
	11.10	Travelling by Motor Vehicle – Class 3 as defined by AA	Per KM	R	R	R	Fixed Pricing
	11.11	Travelling by Motor Vehicle – Class 4 as defined by AA	Per KM	R	R	R	Fixed Pricing

**SECTION C: Gas Turbine Related**

	12.1	Refitting of Coil Retaining Rings (CRR) on site with rotor in situ	Per Side	R	R	R	Fixed Pricing
	12.2	Removal of CRRs on site with rotor in situ.	Per Side	R	R	R	Fixed Pricing
	12.3	Provision for the fitting of damper windings and overhang insulation during the refitting of CRR's.	Per Side	R	R	R	Fixed Pricing
	12.4	Fluorescent dye penetration NDT with assessment report.	Per Hour	R	R	R	Fixed Pricing
	12.5	Electrical test of the rotor required after refitting of CRR's which shall include RSG and Megger test (Insulation test) to 500 V.	Per Side	R	R	R	Fixed Pricing
	12.6	Replication of selected critical test area up to 20 test area per CRR with assessment report.	Per Side	R	R	R	Fixed Pricing

<b>Field Inspection, repairs and reports for: Stator Overhang Windings</b>	<b>Inspection of the Stator Overhang Windings for defects and repair as required and compilation of a report including but not limited to details of items listed:</b>						
	13.1	Inspection including <ul style="list-style-type: none"> <li>· Removal of all overhang blocking</li> <li>· Cleaning of overhang blocking</li> <li>· Dry cleaning of rotor overhang windings</li> <li>· Clean stator overhang windings</li> <li>· Inspect and test for loose overhang support blocks</li> <li>· Inspect surge support rings for tightness</li> <li>· Visual Inspection</li> </ul>	Per GT	R	R	R	Fixed Pricing
	13.2	Polarisation Index electrical test stator windings	Per GT	R	R	R	Fixed Pricing
	13.3	Repair any accessible inter turn shorts on overhang areas	Per Occurrence	R	R	R	Fixed Pricing
	13.4	Electrical test of the rotor required a which shall include RSG and Insulation Resistance tests	Per Occurrence	R	R	R	Fixed Pricing
	13.5	Dissipation Factor / Tan Delta Tests	Per Hour	R	R	R	Fixed Pricing
	13.6	Supply and prepare replacement overhang insulation	Per Occurrence	R	R	R	Fixed Pricing
	13.7	Supply and fit inter-turn insulation materials as required	Per Occurrence	R	R	R	Fixed Pricing

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Inspection of the Overhang Windings for defects and repair as required and compilation of a report including but not limited to details of items listed:							
<b>Field Inspection, repairs and reports for Stator Core</b>	14.1	Inspection Including:	Per GT	R	R	R	Fixed Pricing
		· Clean all accessible stator core areas					
		· Inspect stator core laminations at stator ends.					
		· Inspect and test for loose stator wedges at accessible slot ends					
		· Inspect stator core laminations at stator ends.					
<b>Generator Horizontal Rotor</b>	14.2	Vibration Analysis for large rotating machinery	Per Hour	R	R	R	Fixed Pricing
<b>Plant Motors and Pumps</b>	14.3	Vibration Analysis for small ancillary rotating machinery including report with metrics and recommendations	Per Hour	R	R	R	Fixed Pricing
<b>Vibration Analysis and Systems</b>	14.4	Unspecified spare parts for the purpose of repairs to Vibration measurement systems and linked plant. See specification 1.3.1.8	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9
<b>Horizontal Shaft</b>	14.5	Balancing of shaft	Per Hour	R	R	R	Fixed Pricing
<b>SECTION D: Common to all sites</b>							
<b>Items relating to DC works</b>	15.1	Contract hourly rate for a DC Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	15.2	Contract hourly rate for a DC Specialist technician	Per Hour	R	R	R	Fixed Pricing
	15.3	Contract hourly rate for a DC Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	15.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	15.5	Unspecified spare parts for the purpose of repairs to DC systems and linked plant. See specification 25 - DC Works	Per Unit	%	%	%	Fixed Pricing. See pricing instruction 5.9
	15.6	AGT 220V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.7	AGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.8	RGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.9	SPS 24V Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.10	SPS 50V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.11	SPS 110V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.12	SPS 110V Main Bank Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.13	SPS 110V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	15.14	SPS 24V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>

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Items relating to Protection Systems	16.1	Contract hourly rate for a Protection Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	16.2	Contract hourly rate for a Protection Specialist technician	Per Hour	R	R	R	Fixed Pricing
	16.3	Contract hourly rate for a Protection Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	16.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	16.5	Provision for Equipment Hire for the purposes of testing protection Systems	Per Hour	R	R	R	Fixed Pricing
	16.6	Unspecified spare parts for the purpose of repairs to protection systems and linked plant. See specification 26 - Protection Systems	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9
	16.7	ABB REM 543 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
	16.8	ABB RET 670 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	R	R	R	Fixed Pricing Supplier Price list <input type="checkbox"/> Rate of Exchange <input type="checkbox"/>
Items relating to PLC Systems	17.1	Contract hourly rate for a PLC Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	17.2	Contract hourly rate for a PLC Specialist technician	Per Hour	R	R	R	Fixed Pricing
	17.3	Contract hourly rate for a PLC Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	17.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	17.5	Unspecified spare parts for the purpose of repairs to Unspecified Parts relating to protection systems and linked plant. See specification 27 - PLC Systems	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9
Items relating to SCADA systems (specifically Omniflex and Adroit)	18.1	Contract hourly rate for a SCADA Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	18.2	Contract hourly rate for a SCADA Specialist technician	Per Hour	R	R	R	Fixed Pricing
	18.3	Contract hourly rate for a SCADA Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	18.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	18.5	Unspecified spare parts for the purpose of repairs to SCADA, Omniflex and linked plant. See specification 28 - SCADA Systems	Per Unit	%	%	%	Fixed Pricing
Items relating to Motors	19.1	Contract hourly rate for a Motor Repair Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	19.2	Contract hourly rate for a Motor Repair Specialist technician	Per Hour	R	R	R	Fixed Pricing
	19.3	Contract hourly rate for a Motor Repair Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	19.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	19.5	Contract hourly rate for Senior Winder	Per Hour	R	R	R	Fixed Pricing
	19.6	Provision for materials for the purpose of rewinding a motor or other repairs.	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9
	19.7	Unspecified spare parts for the purpose of repairs to motor repairs and replacements as well as repairs to related systems. See specification 29 - Motors	Per Repair	%	%	%	Fixed Pricing. See pricing instruction 5.9
Crating	20.1	Allowance for crating of various goods	Per Unit	5%	5%	5%	Fixed Pricing. See 30 of specification
Precision and metrology	21.1	Contract hourly rate for a precision and metrology Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	21.2	Contract hourly rate for a precision and metrology Specialist technician	Per Hour	R	R	R	Fixed Pricing
	21.3	Contract hourly rate for a precision and metrology Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	21.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	21.5	Unspecified spare parts for the purpose of repairs to metrology components as well as repairs to related systems. See specification 31 - Precision and Metrology	Per Unit	%	%	%	Fixed Pricing. See pricing instruction 5.9
Hydraulics	22.1	Contract hourly rate for a Hydraulic Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	22.2	Contract hourly rate for a Hydraulic Specialist technician	Per Hour	R	R	R	Fixed Pricing
	22.3	Contract hourly rate for a Hydraulic Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	22.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	22.5	Unspecified spare parts for the purpose of repairs to Hydraulic components as well as repairs to related systems. See specification 32 - Hydraulics	Per Unit	%	%	%	Fixed Pricing

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<b>Manufacturing / Fabrication</b>	23.1	Contract hourly rate for a Manufacturing / Fabrication Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	23.2	Contract hourly rate for a Manufacturing / Fabrication Specialist technician	Per Hour	R	R	R	Fixed Pricing
	23.3	Contract hourly rate for a Manufacturing / Fabrication Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	23.4	Contract hourly rate for a Manufacturing / Fabrication skilled labour	Per Hour	R	R	R	Fixed Pricing
	23.5	Contract hourly rate for a Manufacturing / Fabrication coded welder	Per Hour	R	R	R	Fixed Pricing
	23.6	Unspecified spare parts and materials required and relating to Manufacturing / Fabrication activities. See Specification 33 - Manufacturing / Fabrication	Per Unit	%	%	%	Fixed Pricing. See pricing instruction 5.9
<b>High Speed Turbine Specialists</b>	24.1	Contract hourly rate for a High Speed Turbine Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	24.2	Contract hourly rate for a High Speed Turbine Specialist technician	Per Hour	R	R	R	Fixed Pricing
	24.3	Contract hourly rate for a High Speed Turbine Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	24.4	Contract hourly rate for a High Speed Turbine skilled labour	Per Hour	R	R	R	Fixed Pricing
	24.5	Unspecified spare parts for the purpose of repairs to High Speed Turbines as well as repairs to related systems. See specification 34 - High Speed Turbine Specialists	Per Unit	%	%	%	Fixed Pricing. See pricing instruction 5.9
<b>Solar System Specialists</b>	25.1	Contract hourly rate for a Solar Specialist engineer	Per Hour	R	R	R	Fixed Pricing
	25.2	Contract hourly rate for a Solar Specialist technician	Per Hour	R	R	R	Fixed Pricing
	25.3	Contract hourly rate for a Solar Specialist Artisan	Per Hour	R	R	R	Fixed Pricing
	25.4	Contract hourly rate for a semi-skilled worker	Per Hour	R	R	R	Fixed Pricing
	25.5	Unspecified spare parts for the purpose of repairs to Solar Systems as well as repairs to related systems. See specification 35 - Solar System Specialists	Per Unit	%	%	%	Fixed Pricing. See pricing instruction 5.9
<b>Thermography</b>	26.1	Thermography Inspection by a CAT 2 certified individual. Hour rates will also be used to include detailed report which is to be delivered by soft copy. This will be applicable for all Generation Sites. See specification vi - Thermography Inspections	Per Hour	R	R	R	Fixed Pricing

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**Pricing Instructions:**

- 5.1 State the rates and prices in Rand unless instructed otherwise in the Conditions of Tender.
- 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, such duties, taxes and levies being those applicable 14 days before the closing time stated in the General Tender Information.
- 5.3 All prices tendered must include all expenses, disbursements and costs (e.g. transport, accommodation etc.) that may be required for the execution of the tenderer's obligations in terms of the Contract, and 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 CCT 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 All Engineering rates should be priced in relation to the published ECSA or equivalent approved body rates for the various engineering fields as this will be used as the basis for the market related pricing Evaluations. Specialist areas of Engineering which returns higher than ECSA or equivalent rates will be considered on case-by-case basis for market related pricing.
- 5.9 All rates which have the percentage (%) symbol included will be calculated against the following scale:

Amount	%
< R1 000 000	10
R1 000 000 > R5 000 000	7.5
R5 000 000 > R10 000 000	3
R10 000 000 > R15 000 000	2
> R15 000 000	0.5

This excludes items 11.5 and 11.6 which cover travelling expenses. The tenderer will insert their markup to a maximum of 10%, but these rates will be evaluated which the tenderer should note.

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## C.5 SPECIFICATION(S)

### 1 [SCOPE OF SPECIFICATION

- 1.1. This specification provides for the provision of pro active and reactive repair and maintenance services for the four "SIEMENS" motor/generators (12kV) and "pony motors" (3.3kV) as well the "BRUSH" generators for both the Roggebaai Gas Turbine and the Athlone Gas Turbine (11Kv) with respect to their Coil Retaining Rings (CCR), slip-rings, rotors and field windings, high voltage stator windings and cores. This contract also makes provision for repairs and maintenance to ancillary equipment housed in all Generation plants which can include Solar Generation Plants as well as Battery plants. The repair and maintenance services as specified in sections 2.0 and 4.0 of the technical specification are broken down in the Pricing Schedules under "Detailed Particulars of Service Items – Work Scope" and "Optional Service Items - Daily Rates, Travel and Transport". Work on the respective machines will occur as and when need arises within the Contract period. Planned work is dictated by electricity load conditions, particularly during the winter months of May through to August, hence the site work on the machine for proactive maintenance would most likely commence no earlier than October of the respective calendar year and have to be concluded by March the following year. A separate purchase order will be placed for each site visit repair session contemplated during the contract term. The term for the services to be provided per this specification and resultant contract shall be from date of commencement of contract with a contract period of three years.
- 1.2. The scope shall include the supply and delivery of specialised services, materials as and when required, but shall not include the maintenance and repairs to the "SULZER" pump/turbines.
- 1.3. The Tenderer shall be capable of providing:
- 1.3.1. Complete rotor and stator inspection for the motor/generator and pony motor and report. All repairs shall be provided for including:
- 1.3.1.1. Stator coil wedges, overhang support blocks, surge supporting ring materials, stator core and the stator core tie bolts and insulation.
- 1.3.1.2. Removing and re-fitting of top and bottom stator winding half coils.
- 1.3.1.3. The removing and re-fitting of the rotor field winding supports ("Y Clamps), "Damper winding "supports on the salient pole synchronous machine's motor / generator rotor.
- 1.3.1.4. Repair to rotor pole salient pole laminations requiring additional packing and lamination weld repairs.
- 1.3.1.5. Rewind of faulty generator rotor pole and conversion into "universal pole" per drawings in Annexure D
- 1.3.1.6. Non-Destructive Testing and Replications of Coil Retaining Rings of the Gas Turbines
- 1.3.1.7. Balancing of Gas Turbine Shafts with Rotor in Situ
- 1.3.1.8. Vibration Analysis of Gas Turbine Rotor Shaft and Steenbras Vertical Shafts as well as ancillary equipment including motors and pumps.
- 1.3.1.9. Electrical Tests including: Tan Delta, Insulation Resistance, Partial Discharge and Polarization Index Testing
- 1.3.1.10. Other Minor works affecting ancillary plant at each Power Station.
- 1.3.1.11. Variations to work scope:

- 1.3.2. The tenderer may be required to provide for inspections, reports, repairs and testing not specified in the pricing schedule. Such services shall be provided for as and when required, according to the Daily Rates, Travel and Transport in Section B of the Pricelist. There are also unspecified items in each main section of the price list. The following markup scale will apply:

Amount	%
< R1 000 000	10
R1 000 000 > R5 000 000	7.5
R5 000 000 > R10 000 000	3
R10 000 000 > R15 000 000	2
> R15 000 000	0.5

## 2. INSTALLATION DETAILS

### Steenbras Power Station:

The City of Cape Town owns and operates four vertical installed Motor/Generators with Pony motors, driven by reversible Francis water Turbines situated at Steenbras Power Station, near Gordon's Bay. See 9.0 "Site Location".

Each unit consists of a reversible Francis Turbine, Generator and Pony motor - coupled to the same shaft.

### Gas Turbines:

The City of Cape Town owns and operates two Open Cycle Gas Turbine Stations, Roggebaai Gas Turbine and Athlone Gas Turbine.

The gas turbine installations are of a Curtiss Wright mod pod electrical power generation package design, originally produced by Curtiss Wright power systems. Each group consists of two Rolls Royce Olympus gas TURBINES, each one aerodynamically coupled to a Curtiss Wright CT-2 power turbine, which in turn drives a centrally mounted Brush generator coupled to the same shaft.

### Solar Sites:

The City of Cape Town is in the process of expanding the Generation and Storage capacities and this includes Solar / Battery Energy Storage Sites.

The first site is located in Atlantis industrial park and is a 7MW Solar plant with Battery energy storage to be installed at a future date.

**The line items applicable to all sites will be applicable to the sites listed above as well as any future sites belonging to the Generation Department.**

## 3. PARTICULARS OF MOTOR / GENERATOR SETS

### 3.1. STEENBRAS

Manufacturer: Siemens

Type: Vertical, synchronous, salient pole rotor (1DH 6045-3WE 05-Z)

Rating: 50 000 kVA - Generator

52 600 kVA – Motor

Voltage: 12,000 V

Current: 2405 A – Generator  
2530 A – Motor

Phases: 3ph/50 Hz Star connected

Excitation: Static controlled 134 V – 972 A

Year of Manufacture: 1975

Speed: 600 rpm over speed 900 rpm

Insulation Class: Class S II (Rotor B and Stator B)

Serial Numbers: 1 100 171  
1 100 172  
1 100 173  
1 100 174

**PARTICULARS OF THE PONY MOTOR SETS**

Manufacturer: Siemens

Type: Vertical, slip ring rotor (1TQ4335-3VE04 – Z)

Rating: 3 800 kW

Volts: 3 300 V

Current: 827 A

Phases: 3ph/50 Hz Star connected

Year of Manufacture 1975

Speed: 0 - 744 rpm over speed 900 rpm

Insulation Class: Class Rotor F and Stator F

Serial Numbers: D75 331 204 01  
D75 331 204 02  
D75 331 204 03  
D75 331 204 04

**GENERATOR SALIENT ROTOR FIELD POLE DETAILS**

- Rated Voltage = 134V DC
- Rated Current = 972A
- Test Voltage = 1.5kV
- Insulation class = B
- Weight of pole = 2,375 ton each

**3.2. Gas Turbines****ATHLONE GENERATOR SET:**

Manufactures:	Curtiss-Wright Corporation
Type:	Mod Pod 20/40
Gas Generator:	Rolls Royce, Industrial Olympus, 2020
Main Power Turbine:	Curtiss-Wright, CT-2
Control Systems:	Allen Bradley Control Logix PLC RS View 32 front end HMI

Manufacturer:	Brush Electric
Year:	1972
Rated Voltage:	11 kV
Rated Apparent Power:	44.5 MW
Rated Frequency:	50 Hz
Insulation Class:	B
Max. winding Temp C:	M.C.R @ 15°C (Ambient)
Original Winding:	1972
Rewind / Re-built:	In service
Stator Cooling:	Air
Serial Number:	747921

**ROGGEBAAI GENERATOR SET:**

Manufactures:	Curtiss-Wright Corporation
Type:	Mod Pod 25/50
Gas Generator:	Rolls Royce, Industrial Olympus, 2022
Main Power Turbine:	Curtiss-Wright, CT-2
Control Systems:	Allen Bradley Control Logix PLC RS View 32 front end HMI

Manufacturer:	Brush Electrical Machines Ltd.
Rating:	61,667 KVA
Voltage:	11,000 V
Current:	3237 A
Phases:	3ph/50 Hz Star connected
Excitation:	228 V - 464 A from "brushless" exciter with rotating rectifier
Year of Manufacture:	1980
Speed:	3000 rpm
Insulation Class:	Class F (Rotor and Stator)
Shaft vibration limits:	2.3 Mil (alarm); 4.8 Mil (trip), all bearings

**4. DETAILED REQUIREMENTS OF REPAIR AND MAINTENANCE SERVICES**

- 4.1. The current proactive program is to inspect the Steenbras generator/motors and Gas Turbine Generators prior to their planned maintenance shut downs within the Repair and Maintenance Services Contract period from date of commencement for a period of 36 months. The extent of repairs of individual machines will depend on the "as found" condition of the respective machine sets and carried out during the subsequent planned summer maintenance shut downs.

- 4.2. The Contractor's principle or responsible person shall be contactable within a 24 hour period, maximum, regardless of his location.

## 5. WORK SCOPE

- 5.1. Work at fixed schedule prices unless indicated in the pricing schedule in which case Rate of Exchange or Supplier Price Lists will apply.
- 5.1.1. The services are broken down into appropriate service items or "work packages" as described. These are listed in the category: Section 2.0: Detailed Particulars of Service Items–Work Scope. The prices submitted for these items and associated sub items shall be inclusive of all costs anticipated by the Tenderer including site establishment, specialised staff, equipment, tools, traveling and accommodation.
- 5.1.2. Under normal circumstances, the client shall be responsible for providing access to the rotor and stator windings for the work per this schedule.
- 5.1.3. If the client has resource constraints in respect to providing access to the rotor and stator windings, then the contractor shall be required to provide suitable additional site resources according to the Daily Rates, **Travel and Transport in Section B. A fixed rate will apply and these rates must be market related**
- 5.1.4. Items 11.3 and 11.4 of the pricing schedule covering Unspecified Ad hoc parts and Services will only be required if unforeseen work cannot be done under the Section A, B, C and D fixed Line Items. The Provider is to provide a minimum of three quotations. Should the provider not be able to provide three quotations, The Client will in parallel to this process, the Client shall publish a Request for Information (RFI) to determine which other companies can do the work as well with estimate pricing. Should additional companies (who meet the minimum requirements in terms of specification / accreditations) respond, the provider will be required to get official quotations from these service providers. The estimate pricing will also be used to provide a marker for market related pricing. The City of Cape Town reserves the right to assess the quotations for market related values and may reject the quotations should the price not be market related. The City of Cape Town also reserves the right to follow their own internal procurement process to obtain the relevant specialised parts and services.
- 5.1.5. Items 11.11 and 11.12 of the pricing schedule covering OEM services and parts will only be required if unforeseen work cannot be done under the Section A, B and C fixed Line Items. Should the service provider identify a specific service or parts as an OEM item, the service provider is to produce a letter from the OEM detailing that they are the only company accredited to provide the service or the only company able to provide the parts. The client will then make use of the RFI process internally to test the open market to validate the claim that the services and parts are only available from the OEM. Should the same services or parts be required during this contract, the need to test the market will not be required.

## 6. APPLICABLE STANDARDS

- 6.1. The following standard specifications as revised from time to time shall form part of this Specification. The BS Standards shall imply their equivalent SANS Standard as applicable:
- 6.2. SANS 9001
- 6.3. SANS 60034-1: 2004; SANS 60034-3: 2005; SANS 60034-15: 1995; SANS 60034-18-1:1992; SANS 60034-236: 2003
- 6.4. ISO 10816-3
- 6.5. 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.
- 6.6. The design features of all equipment shall be based on the SI system of units.

6.7. SAIMM (South African Institute of Mining and Metallurgy)

**7. REQUIRED EXPERIENCE AND EQUIPMENT OF MAIN CONTRACTOR, SUB-CONTRACTORS AND WORKMEN**

7.1. The Tenderer shall also be the Main Contractor and shall be a recognized and established rotating electrical machine maintenance specialist for machines rated above 30 MVA and 10 kV.

7.2. The Main Contractor shall have access to and be capable of sourcing and delivering in the short term all of the generator winding insulation repair materials including such items as stator and rotor slot wedges, insulation tapes, resins, corona protection and grading paint repair materials, suitable generator cleaning methods and materials.

7.3. The Main Contractor shall have access to and be capable of sourcing and delivering in the short term of 5 days, all of the generator winding insulation repair materials including such items as stator and rotor slot wedges, insulation tapes, resins, corona protection and grading paint repair materials, suitable generator cleaning methods and materials. Where not possible to source in 5 days, the project manager shall be notified accordingly.

**8. SITE WORK**

8.1. Any ad-hoc decisions taken on site jointly by the Contractor's site supervisor and the Engineer in respect of minor, unforeseen, day to day issues together with any instructions by the latter or observations by both parties in view of site conditions, obstructions, hindrances and the like, shall be recorded in the site instruction book. All such entries shall be in duplicate and shall be jointly signed by the Contractor's site supervisor and the Engineer. No claims for extras or extensions to the contract period arising from such ad-hoc decisions or from unforeseen obstructions or hindrances will be entertained unless all such cases are adequately substantiated by legitimate entries in the site instruction book.

**9. QUALITY, DESIGN AND EXECUTION**

9.1. All apparatus should comply with this Specification. Any departures from the requirements of this Specification shall be stated in the Schedules and may be accepted at the Engineer's discretion.

9.2. No departure shall be implemented without the prior approval of the designated City of Cape Town official.

9.3. The Manufacturer's quality assurance system shall be approved in terms of SANS 9001 or an alternative quality assurance system to the approval of the Engineer. A copy of the registration certificate applicable for each item of the specification shall be submitted with the tender.

9.4. All materials used in the Works shall be new materials and of the best quality. The material of which each part is made shall be one of those recognised as suitable for the purpose in conservative modern practice and of a class suitable for working under the conditions specified. The variations of temperature and atmospheric conditions arising under working conditions shall not cause distortion, deterioration or the setting up of undue stresses in any part nor affect the strength and suitability of the various parts for the work which they have to perform. No welding, filling or plugging of defective parts will be permitted without the sanction in writing of the Engineer.

**10. GENERAL REQUIREMENTS**

**10.1. Bolts and Nuts**

10.1.1. All bolts, studs, screw threads, pipe threads, bolt heads and nuts shall comply with OEM threads and applicable standards. All nuts and pins shall be locked in position. All lock nuts or lock washers shall be of approved type. Wherever possible bolts shall be fitted in such a manner that in the event of failure of locking resulting in the nuts working loose and falling off, the bolt will remain in position. On exposed or outdoor equipment bolts, nuts and washers in contact with non-ferrous metallic parts shall be of phosphor-bronze or cadmium plated unless otherwise approved. Each bolt or stud shall project at least one thread but not more than three threads through its nut. Bolts and Nuts are steel products and

components for construction with a local content part of 100% and the necessary forms will need to be provided as such.

**10.2. Cleaning and Painting**

10.2.1. All paints shall be of a type and make to the approval of the Engineer and shall be applied in strict accordance with the paint manufacturer's instructions. All painting shall be carried out on dry and clean surfaces and under suitable atmospheric and other conditions in accordance with the paint manufacturer's recommendations for coastal conditions. The colour of the final coat of paint on equipment shall match the original and existing colours.

10.2.2. All nuts, bolts, washers, etc. which are fitted after fabrication or during erection shall be painted as described above.

10.2.3. After erection all damaged paintwork shall be rubbed down and touched up with primary paint.

**11. PACKING, SHIPPING AND TRANSPORT**

11.1. The Contractor shall make his own arrangements for the removal and delivery of the rotors or rotor poles and Coil Retaining Rings for repair as applicable, tools and materials to and from site and shall provide all labour, plant and material necessary for the loading/unloading and dismantling/erection.

11.2. The Contractor shall be responsible for the packing, loading and transport of the plant to and from site, whether this is at his own works or those of any supplier, to the Council's Stores or to site.

11.3. All apparatus shall be carefully packed for transport by sea, rail and road as necessary and in such a manner that it is protected against climatic conditions. The method of packing shall provide adequate protection to the equipment contained within and attached without, for transportation. Precautions shall be taken to protect the equipment insulation against the ingress of moisture. All bright parts liable to rust shall receive a coat of anti-rusting composition and shall be suitably protected. The machined face of all bearing journals and rotor slip rings shall be adequately protected from corrosion and mechanical damage.

11.4. Where appropriate all parts shall be boxed in substantial crates or containers to facilitate handling in a safe and secure manner. Each crate or container shall be marked clearly on the outside of the case to show where the mass is bearing and the correct position for the slings. Each crate or container shall also be marked with the notation of the part or parts contained therein, contract number and port of destination, and shall become the property of the Council after delivery.

11.5. Any damage due to defective or insufficient packing shall be made good by the Contractor at his own expense and within reasonable time when called upon by the Council to do so. Two copies of complete packing lists showing the number, size, marks, mass and contents of each package shall be posted (electronically in pdf format) to the Engineer immediately after the material is despatched.

11.6. The Contractor shall inform himself fully as to all relevant transport facilities and requirements and loading gauges and ensure that the equipment as packed for transport complies with the South African highway regulations and/or conforms to the limitations of the transport facilities of the South African Transport Services. The Contractor shall also be responsible for obtaining all necessary transportation permits and for verifying the adequacy of any cranes required for off-loading at the port of entry and at the site.

11.7. The Contractor is particularly warned that the height of the largest component arranged for shipment will be limited by the headroom available under the bridges over the freeways. The responsibility shall rest with the Contractor to check this headroom before finalising dispatch of relevant components. The Contractor shall take reasonable steps to prevent damage to any highways or bridges by his traffic and shall select routes, choose and use vehicles and restrict and distribute loads so that the risk of damage shall be limited as far as is reasonably possible. The Contractor shall immediately report to the Engineer any claims made against him arising out of alleged damage to a highway or bridge.

11.8. Access to the site is by road only.

11.9. The Contractor shall be responsible for the total liability of insurances for equipment / plant transported and stored in the contractors / sub-contractors facilities whilst work is being on these equipment / plant.

11.10. The Contractor shall make the necessary security arrangements to safeguard the City of Cape Town's assets whilst they are in their possession.

- 11.11. Provision has been made in pricing schedule item 20.1 for crating. This is not a fixed amount as we acknowledge that different size plant will require different size crates. The contractor is to ensure all items are packaged according to manufacturer specifications to allow for safe transport and/or storage of the items as required.

## 12. GENERAL PARTICULARS AND GUARANTEES

- 12.1. The plant shall comply with the particulars and guarantees stated in Section 6.0.
- 12.2. Tenderers shall clearly state the extent of the guarantee for all maintenance repairs, support services and specialised materials delivered under this tender, which guarantee shall not be less than one year from date of return to service of the respective generator set.
- 12.3. The Contractor shall be responsible for any discrepancies, errors or omissions in the particulars and guarantees, whether or not such particulars and guarantees have been approved by the Engineer.
- 12.4. All details given in this Specification and the drawings forming part of it, have been carefully compiled but the onus is on the Tenderer to satisfy himself fully as to the accuracy thereof.

## 13. VARIANCE WITH CONDITIONS OF CONTRACT

- 13.1. In the event of there being any inconsistency between the provisions of this Specification and the Conditions of Contract, the provisions of the Specification shall prevail and shall be considered as incorporated in the Contract.
- 13.2. Neither the items nor the clauses nor the detailed description therein nor anything contained in this Specification or the Schedules shall limit the obligations and liabilities of the Contractor under the Conditions of Contract.

## 14. TESTS AND INSPECTIONS

- 14.1. All equipment forming part of this Contract shall be inspected by the Engineer and shall be subject to the tests as listed in Section 8.0 and to such tests as the Engineer may deem necessary. Arrangements will be effected with the Contractor.

## 15. SPECIFICATION OF WORK TO BE UNDERTAKEN

### 15.1. DETAILED PARTICULARS OF SERVICE ITEMS–WORK SCOPE (2.0)

#### CONTENTS

Section A SCHEDULE OF DETAILED PARTICULARS OF SERVICE ITEMS – WORKSCOPE TO TECHNICAL SPECIFICATION FOR: REPAIR SERVICES FOR STEENBRAS 3.3 KV PONY MOTORS AND 12 KV GENERATORS

**Detailed Particulars of Service Items inclusive of all cleaning materials, tools, equipment, travel transport and accommodation based on normal working hours are included in the PRICE SCHEDULE A of the PRICE SCHEDULES of Section 4 of the tender document.**

### 15.2. DETAILED PARTICULARS – ROTOR FIELD POLE REPAIR (3.0)

#### CONTENTS

Section A : SCHEDULE OF DETAILED PARTICULARS OF SERVICE ITEMS  
REPAIR AND MAINTENANCE SERVICES FOR STEENBRAS 12 KV GENERATORS ROTOR FIELD POLE

**REWIND OF: 50MVA MOTOR GENERATOR SALIENT ROTOR FIELD POLE.**

**(i) SPECIFICATION FOR ROTOR FIELD POLE REPAIR**

This specification provides for the provision of a quotation to rewind a faulty rotor pole (earth fault) and to convert it into a “universal pole”.

The quotation must detail the costs for the rewind and conversion of the rotor pole and the transportation costs to and from the service providers works and Steenbras Power Station

**NOTE:** The client will provide their own insurance cover for the period that the rotor pole leaves Steenbras Power Station until its return.

**(ii) POLE DETAILS**

- Rated Voltage = 134V
- Rated Current = 972A
- Test Voltage = 1.5kV
- Insulation class = B
- Weight of pole = 2,375 ton

**(iii) DETAILED REQUIREMENTS OF REPAIR SERVICES**

To rewind and convert a faulty rotor pole (earth fault) into a “universal pole”.

The rewound pole must comply in every respect with the original rotor pole technical requirements, in particular, mass, dimensions, number of turns, conductor configuration and cross section.

The insulation material on the faulty pole contains **asbestos**. Therefore all work done on this rotor pole must comply with the OHS Act (act No.85 of 1993) “Asbestos Regulations 2001” as revised from time to time.

All insulation materials used in the rewind and conversion of this rotor pole must be “asbestos free” and certification must be provided within 7 days of request.

**(iv) QUALITY, DESIGN AND EXECUTION**

The Contractor shall provide a timeline and method statement for the repairs and allow for a representative from Steenbras power station to witness the “ELECTRICAL TESTS” 2,3,4 and 5 as detailed in this document.

**(v) GENERAL PARTICULARS AND GUARANTEES**

All details given in this Specification and the drawings forming part of it, have been carefully compiled but the onus is on the Tenderer to satisfy himself fully as to the accuracy thereof. See attached annexure F- of Pole Drawings for particular details

**(vi) TESTS AND INSPECTIONS**

**ELECTRICAL TESTS**

1. High Frequency Inter-turn Insulation Test:

Prior to welding the thrust frame, with the winding under pressure of 63,72 tons.

Apply 10 kHz at 1976V across the full winding for approximately 30 seconds.

(The current for a healthy winding should be approximately 15-16 A)

When the winding passes the test the thrust frame can be welded with the winding under pressure at 63,72 tons.

The welding stitches should be 100mm long at intervals of 180mm.

2. 50 Hz Inter-turn Insulation Test

Test voltage of 65 V (1,5 V/turn) measure the current ( $\pm 30$  A)

Simulate a short turn and apply the same voltage record the current. (NB. Will be higher  $\pm 90$  A)

3. Power Frequency Voltage withstand test.  
Test voltage of 1,5kV at 50 Hz for 60 seconds between the winding and pole steel to ground.
4. Insulation Resistance test.  
Test between the winding and the pole steel to ground with a 1000 V megger, the value should be > 20.000 M ohm.
5. Winding Resistance test (DC ohmic resistance test)  
(The dc ohmic resistance of 0.00905 ohms @ 19.0°C was measured previously).
1. Electrical test of the stator required a which shall include RSG and meggar insulation tests in accordance with IEEE43:2000 standards
2. Polarization Index Testing in accordance with IEC60085-01 and IEEE43-2000 standards
3. Tan Delta Testing in accordance with IEEE286 standards
4. Carry out 400 Hz high frequency interturn testing after coil compression.

(vii) Thermography Inspections

1. Testing will be provided for ancillary Generation including Pumps, Motors, Panels, Distribution Boards, Transformers, etc.
2. Testing is to be done by an ITC CAT 2 Thermal Imager
3. Report for the tests to be provided detailing a matrix of condition for each component tested with photos and temperature indications. Each report is to detail any recommendations in terms of future testing frequency, repairs, usage halting and etc.
4. See section 26.1 of the pricing schedule.

**16. DETAILED PARTICULARS OF OPTIONAL SERVICE ITEMS--: DAILY RATES, TRAVEL AND TRANSPORT: (4.0)**

**CONTENTS**

Section A : SCHEDULE OF DETAILED PARTICULARS OF OPTIONAL SERVICE ITEMS:  
DAILY RATES, TRAVEL AND TRANSPORT FOR THE REPAIR AND MAINTENANCE SERVICES  
FOR STEENBRAS 3.3 KV PONY MOTORS AND 12 KV GENERATORS

**Detailed Particulars of Optional Service Items of optional Services Items are for additional and unforeseen technical support work NOT covered in the repair schedules: "2.0 Detailed Particulars of Service Items– Work Scope" The Detailed Particulars of Optional Service Items of optional Services Items 4.0 are included in the Pricing Section B of Section 4 of this tender document ,**

**17. TECHNICAL PARTICULARS AND GUARANTEES (6.0)**

Minimum 12 month Guarantee unless the specific component comes with a warranty longer than 12 months.

**18. DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS (7.0)**

**18.1. DRAWINGS**

The following is a list of drawings attached to this Specification:- DRAWINGS / DOCUMENTS ISSUED WITH THIS DOCUMENT

The following drawings are applicable to the contract and are issued with this tender document and will form part of the Contract Documents:

DRAWING / DOCUMENT	DESCRIPTION
<i>Annexure F – Inner Connections of Coils</i>	Drawing of universal pole inner and outer connections

Annexure F – Rotor Pole Outlay	Universal Rotor Pole: Coil retaining plate arrangement and welds
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## 18.2. DRAWINGS SUBMITTED BY TENDERERS:

All drawings shall be to a suitable scale and fully detailed. All important dimensions shall be given and the material of which each principal part is to be constructed shall be indicated. Drawings shall not exceed A0 standard dimensions and shall bear approved contract references. The Contractor shall supply any further copies required by the Engineer. The drawings shall be provided Electronically in a format compatible with (2D) DWX / DWG CAD Suites. The format will be determined by the engineer prior to project commencement. An additional minimum of two hard copies will be made available to the engineer should it be required.

TENDERER'S DRAWING NUMBER	DESCRIPTION

18.3. Tenderers shall submit with their tenders full particulars of all equipment offered. The following is a list of the drawings to be submitted as a minimum by the Tenderer with his tender:

### 18.4. General outline and assembly. (as applicable)

**Note: General arrangement drawings of equipment shall show masses, crane lift necessary and size of lifting lugs or eyes. Parts to be removed for transport shall be indicated and their masses stated.**

18.5. **The Contractor shall submit the following drawings for approval within the period stated in the Schedules and shall not commence manufacture before obtaining approval of the drawings :**

18.5.1. Program of Works using a file with MPP Format.

18.5.2. Quality Control Plan detailing all work to be performed and to what specification the work will be performed.

18.5.3. Works Progress Chart (submitted weekly).

18.5.4. Detailed Sub-Order Chart.

18.5.5. Final "as built" drawings corresponding to all drawings submitted by the Contractor with his tender.

18.5.6. Details of test equipment.

18.5.7. Material lists.

18.5.8. Other drawings as required by the Engineer.

18.6. Three copies of all drawings shall be submitted for approval and three copies of any subsequent revision. At least 14 days shall be allowed for the approval of each set of drawings. The Contractor shall not commence manufacture or construction before obtaining approval of the drawings. Following approval four further copies will be required for distribution to the Employer and to site. The Contractor shall supply any further copies required by the Engineer. All copies of drawings submitted to the Engineer shall be dyeline prints on white paper with all wording in English. Electronic copies will also be submitted in CAD

format.

## **19. QUALITY CONTROL, INSPECTION AND TESTING (8.0)**

### **19.1. GENERAL**

- 19.1.1. This section outlines the minimum general requirements necessary to ensure that proper attention is given to the materials used, the standard of workmanship, the manufacturing processes and the quality of all component parts and the guaranteed performance of the finished and repaired items of plant.
- 19.1.2. The Contractor's attention is drawn to the relevant clauses of the GCC 8 regarding inspections, tests and analysis.
- 19.1.3. The Contractor shall carry out the tests specified in this Section in accordance with the conditions thereof and, without extra charge, such additional tests in the manufacturer's works, on the Site, or elsewhere as in the opinion of the Engineer are necessary to determine that the Works comply with this Specification whether under test conditions or in ordinary working.
- 19.1.4. All materials used shall be subjected to and shall withstand satisfactorily such routine tests as are customary in the manufacture of the types of plant included in the Works.
- 19.1.5. The cost of material tests and/or analyses required by the Engineer to be effected elsewhere than at the Works of the Contractor or a subcontractor or on the Site will be borne by the Employer should such material tests or analyses prove satisfactory but the Contractor will be called upon to pay all expenses incurred by the Employer for material tests and/or analyses found to be unsatisfactory in respect of compliance with the terms of the Specification.
- 19.1.6. All tests shall be carried out in the presence of, and to the satisfaction of the Engineer and at such reasonable times as he may require.
- 19.1.7. All labour, materials, stores, apparatus, instruments and connections required for the above tests shall be provided by the Contractor, save for the purpose of tests and analyses the cost of which is to be borne by the Employer as aforesaid and except that the Employer will when reasonably possible permit the Contractor to use for the tests on Site any instrument and apparatus which may have been provided on the Site under this contract, subject to the operation of the system and the carrying out of the other contracts and conditional upon the Contractor accepting liability for any damage which may be sustained by the Employer's equipment during the test:
- 19.1.7.1. for the purpose of the Contractor's quality control,
  - 19.1.7.2. for approved preliminary tests, and
  - 19.1.7.3. for the official tests.
- 19.1.8. If further preliminary runs are necessary, or if further official tests are required due to the Works not complying with the terms of this Specification, the Employer may call upon the Contractor to pay for any additional costs incurred by the Employer.

### **19.2. QUALITY PLAN**

- 19.2.1. The Contractor shall submit for approval within 28 days of commencement date, an inspection and test plan (quality plan) defining the programme of quality control and inspection activities which he will perform in order to ensure that the plant during spare part manufacture and on completion, complies with the specified requirements. The quality plan may be of any form to suit the Contractor's system, but it shall as a minimum:-
- 19.2.1.1. indicate each inspection and test point and its relative location in the production cycle including incoming packaging and site inspection;
  - 19.2.1.2. indicate where subcontractor services will be employed; identify the characteristics to be inspected, examined and tested at each point and specify procedures and acceptance criteria to be used;
  - 19.2.1.3. indicate mandatory hold points established by the Engineer which require his verification of selected characteristics of an items or process before the work can proceed;

19.2.1.4. define or refer to sampling plans if proposed and where they will be used;

19.2.1.5. refer to quality plans or checklists governing the work of major subcontractors;

19.2.1.6. where applicable, specify where lots or batches will be used.

19.2.1.7. make reference, in the case of components manufactured by or services rendered by a sub-contractor to an inspection plan drawn up by the sub-contractor along the lines indicated in this Clause.

### 19.3. INSPECTION

19.3.1. Inspection of the plant will be made by the Engineer and will include the following activities:-

19.3.1.1. witness inspection and testing and/or verification of inspection records at the Engineer's discretion covering:-

19.3.1.2. compliance of manufactured parts, assemblies and final items with specifications, drawings, standards and good engineering practice;

19.3.1.3. periodic inspection of Contractor's design and production and preparation of progress reports;

19.3.1.4. follow up of design work in case of delay in despatch of drawings;

19.3.1.5. witnessing of tests;

19.3.1.6. follow up of compliance with equipment and drawing, delivery schedules and release of equipment for despatch;

19.3.1.7. packing for shipment including check for completeness of shipment, handling requirements and case markings and identification.

19.3.2. Where the Contractor's quality assurance system has not been registered in terms of SANS 9001 the Engineer's inspection will include the following:

(a) evaluation of the Contractor's inspection system and approval of the Contractor's inspection plan;

(b) periodic checks to confirm the effectiveness of, and the Contractor's compliance with, the established inspection procedures;

(c) compliance of raw material with specified requirements.

(d) All raw materials, components, shop assemblies and products shall be subject to inspection and test by the Engineer as required by the Specification and to the extent practicable at all times and places during the period of manufacture.

19.3.3. The Contractor is requested to include in all his orders to subcontractors a note informing that materials and equipment covered are subject to inspection by the Engineer. A copy of such purchase orders shall be forwarded simultaneously to the Engineer.

- 19.3.4. The Contractor shall be responsible for the proper testing of the Work completed or plant or materials supplied by a sub-contractor to the same extent as if the Work, plant or materials were completed or supplied by the Contractor himself.
- 19.3.5. In order to verify compliance with manufacturing, engineering and procurement schedules and programmes, the Engineer shall have access at all reasonable times to all places where materials or equipment are being prepared or manufactured, including the Works of the Contractors, subcontractors, or suppliers of raw material.
- 19.3.6. The Contractor shall keep the Engineer informed in advance of the time of starting and of the progress of the work in its various stages so that arrangements can be made for inspection and for tests. He shall also provide without additional charge all reasonable facilities and assistance for the safety and convenience of the Engineer in the performance of his duties.
- 19.3.7. Not less than two weeks notice of all tests shall be given to the Engineer in order that he may be represented if he so desires. As many tests as possible shall be arranged together. A copy of the Contractor's record of tests shall be supplied to the Engineer.
- 19.3.8. All inspections or tests by the Engineer shall be scheduled and performed so as to avoid undue risk of delaying the work. In the event of postponement, by the Contractor, of tests previously scheduled or of the necessity to make tests due to unsatisfactory results of the original tests, or other reasons attributable to the Contractor, the Contractor will bear all costs for new tests and expenses involved in their witnessing by the Engineer.
- 19.3.9. Measuring apparatus shall be approved by the Engineer and if required shall be calibrated at the expense of the Contractor at an approved laboratory.
- 19.3.10. Acceptance or rejection of the equipment and/or components shall be made as promptly as practicable after manufacture, but failure to inspect and accept or reject equipment and/or components shall neither relieve the Contractor from responsibility for such items which may not be in accordance with the Contract requirements, nor impose liability for them on the Employer.
- 19.3.11. The Contractor shall supply suitable test pieces of all materials as required by the Engineer. If required by the Engineer test specimens shall be prepared for check testing and forwarded at the expense of the Contractor to an independent testing authority selected by the Engineer.
- 19.3.12. The cost of all tests and/or analyses shall be borne by the Contractor, but the costs of check tests and/or analyses effected elsewhere than at the manufacturer's works or on the Site, and the results of which are approved, will be refunded to the Contractor by the Employer by agreement.
- 19.3.13. No materials shall be shipped until all tests, analyses and inspections have been made, or certified copies of reports of tests and analysis or Contractor's certificates have been accepted and released by the Engineer or by a waiver in writing. The Contractor shall furnish the Engineer two copies of certified reports on all required tests and analysis.
- 19.3.14. Effectiveness and quality of packing for shipment will be verified by the Engineer having regard to protection required and handling, transport arrangements and site storage requirements.
- 19.3.15. The Contractor shall inform the Engineer of the name of his representative authorized to make decisions, and/or provide, in respect of equipment, tests and any other data related to the Contract.
- 19.3.16. The Engineer shall have complete authority to accept or reject any equipment or part thereof considered unsatisfactory and/or not in accordance with the Contract.
- 19.3.17. No equipment shall be despatched from the manufacturer's works without the approval of the Engineer.

#### **19.4. TESTS IN THE MANUFACTURER'S WORKS**

##### **19.4.1. General**

- 19.4.1.1. The manufacturer shall be fully equipped to perform all the required tests as specified. Tenderers shall confirm the manufacturer's capabilities in this regard when submitting tenders. Any limitations shall be clearly stated. The Council reserves the right of inspection of the manufacturer's test facilities by the

Engineer. Where required instruments shall be calibrated by an agreed independent body at the Contractor's expense.

19.4.1.2. Three copies of test certificates, in English, shall be supplied to the Council prior to the despatch of the materials and/or repaired equipment from the manufacturer's works.

19.4.1.3. Other tests as requested by the Engineer.

**19.4.2. TESTS AT SITE**

**19.4.2.1. GENERAL REQUIREMENTS:**

19.4.2.2. After the plant and ancillary equipment have been adequately prepared and or erected and connected up on site, the Contractor shall carry out to the satisfaction of the Engineer such tests as may be required to prove compliance with the Specification, independently of any tests carried out at the applicable works.

19.4.2.3. The Engineer shall have the right to witness all tests, and the results must be available to him as the tests proceed.

19.4.2.4. The Contractor shall submit notice of the tests, in accordance with the Conditions of Contract, in writing 5 days prior to the date on which the tests are to commence.

19.4.2.5. Site test reports acceptable to the Engineer shall be submitted before the Taking-Over Certificate shall be issued.

19.4.2.6. The site tests shall include those described in outline below:

**19.4.3. INSULATION RESISTANCE AND POLARIZATION INDEX (PI) TESTING**

**Purpose:** To define the method of conducting an Insulation Resistance (IR) and Polarisation Index (PI) Test on Generator Stators with star point connected or disconnected.

**Scope:** All generator stator windings that have been disconnected off line.

**19.4.3.1. Glossary Of Terms:**

(a) **Insulation Resistance:** Is the ratio of the DC voltage applied between the winding and earth for one minute and the resultant current

(b) **The Polarisation Index:** Is more indicative of the state of the winding than a simple measurement of the Insulation Resistance (1 minute). The index is defined as the ratio of the current, which crosses the dielectric material after the voltage, has been applied for 1 minute to that which crosses it after 10 minutes. This measurement may be carried out with the same equipment as that used for measuring the Insulation Resistance.

The test voltage for the applicable medium voltage machines are given below:

Steenbras Power Station

MACHINE VOLTAGE	IR / PI TEST VOLTAGE
12000V	5000 v

Gas Turbines

MACHINE VOLTAGE	IR / PI TEST VOLTAGE
11000V	5000 V

NOTE! An index measurement has to have a perfectly stable direct voltage source for the 10 minutes of the test. That is why the use of a megger hand magneto is forbidden.

19.4.3.2. The value of the Polarisation Index is indicative of the state of pollution of the winding, especially the moisture.

19.4.3.3. Equipment: Motorised "Megger" range at least 100 000 Megohms

19.4.4. **Value Calculation**

**THE POLARISATION INDEX IS CALCULATED AS FOLLOWS:-**

$$\text{POLARISATION INDEX (PI)} = \frac{\text{10 MINUTES INSULATION RESISTANCE}}{\text{INUTE INSULATION RESISTANCE}}$$

1

**A POLARISATION INDEX VALUE LOWER THAN 2.0 ON NEW WINDINGS IS NOT ACCEPTABLE. ON OLDER WINDINGS, A PI VALUE OF GREATER THAN 1.5 IS NORMALLY ACCEPTABLE AS LONG AS THE IR IS ABOVE 100MΩ. FOR ANY VALUE LOWER THAN 2,0, INFORM THE ENGINEER.**

19.4.5. **CONDITIONS PRIOR TO PI TESTING**

19.4.5.1.1. STATOR WINDING:

**AS FOUND CONDITION PRIOR TO REPAIRS/REFURBISHMENT OR FULLY CLEANED, REPAIRED AND RELEASED FOR TEST PRIOR TO COMMISSIONING THE GENERATOR.**

19.4.5.2.2. EARTHING REQUIREMENTS:

**(A) ALL EARTHS MUST BE CONNECTED TO POWER STATION EARTHING POINT.**

**(B) MEGGER EARTH TO BE CONNECTED TO STATOR EARTH.**

19.4.6. **CLEANLINESS:**

19.4.6.1. Ensure that the windings are cleaned prior to final test.

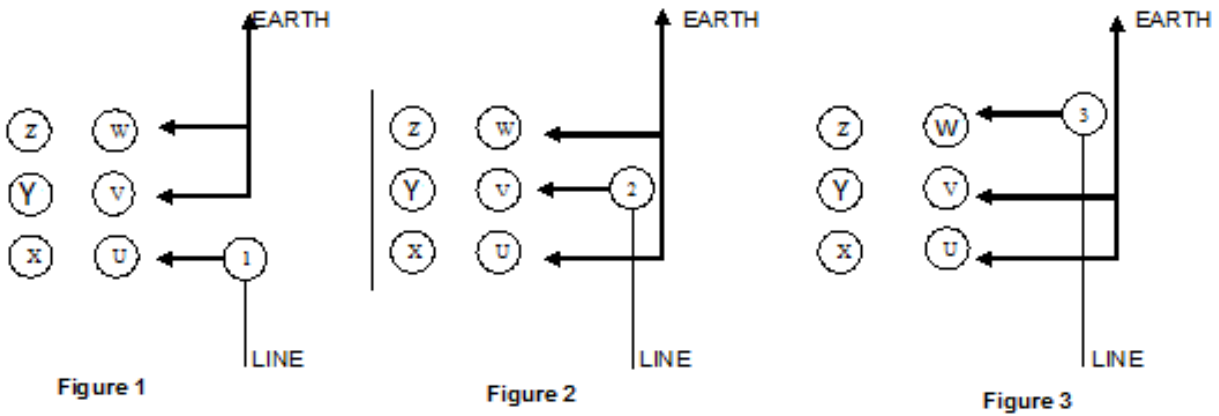
19.4.7. **SAFETY:**

19.4.7.1. Ensure that all personnel are clear of the machine during the test.

19.4.6. **CONNECTING FOR TEST**

19.4.7. TESTING PHASES INDIVIDUALLY

Refer to Fig. 1, Fig 2 and Fig 3 for testing phases individually.



19.4.8. TESTING PHASES TOGETHER

Refer to Fig. 4 for testing all phases together.

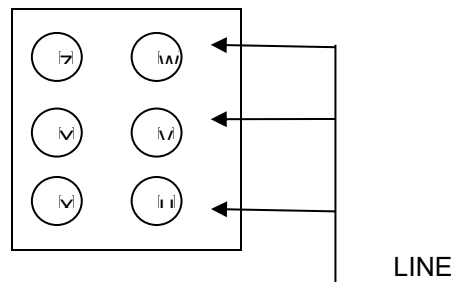


Figure 4

19.4.9. POLARISATION INDEX TEST

19.4.9.1. Connect megger as required.

19.4.9.2. Megger the winding for a period of 10 minutes recording the resistance values at 1 minute intervals. Upon completion, switch off the megger and discharge the winding for ten minutes and disconnect. NOTE! The winding must be discharged through a resistor. The Megger discharge function is through a resistor.

19.4.9.3. To test other phases, repeat the above steps for each phase. If the IR is >5000MΩ, it is recommended that the PI test is not to be carried out, as the results may be meaningless. This should be cleared with the customer or Engineer first. If no clearance is obtained or if in doubt, continue with the PI test.

19.4.10. INSULATION RESISTANCE TEST ONLY

19.4.10.1. Connect megger as required.

19.4.10.2. Megger the winding for a period of 1 minute. Record the 1 minute reading. Upon completion, switch off the megger and discharge the winding and disconnect.

19.4.10.3. To test other phases, repeat steps 19.4.10.1 and 19.4.10.2

19.4.10.4. The following table applies to all three phases being tested together.

MINIMUM IR (MΩ)	APPLICABLE MACHINE
-----------------	--------------------

(KV + 1) MΩ	Windings Pre – 1970 and all rotor windings
100 MΩ	All form wound stator windings after 1970
5 MΩ	Random wound machines and form wound machines rated below 1KV

**NOTE** For a single phase being tested, the acceptance value is twice that of all 3 phases together (e.g for form wound stator windings after 1970, single phase minimum IR = 200 MΩ).

#### 19.4.11. DISCONNECTING ON COMPLETION

19.4.11.1. Remove all leads used to perform the test.

#### 19.4.12. FLUORESCENT DYE PENETRATION INSPECTION (DPI)

19.4.13. All DPI shall be carried out by SANAS accredited inspection service provider who shall be listed in Annexure C. A copy of the valid Certificate of Accreditation by SANAS shall be attached to the tender. All chemicals used in the DPI shall be sulphur and chloride free. No DPI chemicals shall be permitted to contaminate the machine windings and insulation.

#### 19.4.14. REPLICATION TEST

19.4.14.1. All replication tests shall be carried out by an SAIMM (South African Institute of Mining and Metallurgy) affiliate metallurgical service provider.

19.4.14.2. The metallographic specimens shall be prepared by lifting acetate replication at the sites identified on the surface and end-face of the coil retaining rings. The replicas shall be prepared according to a carefully planned grinding, polishing, and etching process. The individual replication sites shall be clearly labelled and described in the reports submitted, with all relevant drawings attached. All replica specimens shall be examined using light microscopy in normal bright-field mode or similar method.

## 20. DYNAMIC ROTOR BALANCING

20.1.1. After work is undertaken on a rotor, the rotor shall be dynamically balanced by the contractor to operate within the acceptable vibration limits.

20.1.2. Unless otherwise stated, the bearing absolute vibration levels measured in-situ shall meet the ISO 10816-3 / ISO 20816-3 International Standards for coupled industrial machines with nominal power above 300kW mounted on flexible supports.

20.1.3. Where practicable possible the contractor shall arrange for a full set of steady state and transient vibration readings to be recorded prior to carrying out any work in hand.

## 21. Evaluation standards:

21.1. Generator Rotor: (Casing) Maximum allowable steady state vibration = 15 micron p-p.

21.2. Pony-motor Rotor: (Casing) Maximum allowable steady state vibration = 65 micron p-p.

## 22. Liquid Resistance Starters – Pricing Schedule Items 2.5 – 2.9

22.1. Specifications of Liquid Resistance Starters

### LRS Nameplate

Type Siemens Liquid Starter 3PM1262-5HA00Z  
with Cooler  
Serial Number 570 669

Power 6000 kW  
Rotor Current 2000 A  
Rotor Voltage 3000 V  
Electrolyte (note 1) 81kg S.C.  
Electrolyte (Tank Volume) 3000 litres.  
Control/Auxiliary Voltages 110V/415V

**Motor Nameplate**

P 3800 kW  
U1 3300 V  
I1 827 A  
U2 1630 V  
I2 1420 A  
N 744 RPM  
Type 1TQ 4335-7 VE 04-Z  
Power Factor 0.84

22.2. Photos





### 23. Brush Gear System – Pricing Schedule Items 7.1 – 7.6

- 23.1. The client requires services pertaining to spares, repairs and maintenance of our bush gear system
- 23.2. Details on the Excitation System is contained in Schedule F15 Annexure B.1
- 23.3. Generator Brush and Brush Holder Dimensions and Specs contained in Schedule F15 Annexure A

### 24. Excitation System – Pricing Schedule Items 9.1 – 9.5






- 24.1. Detailed excitation system specifications contained in Schedule F 15 Annexure B.1

### 25. DC Works – Pricing Schedule Items 15.1-15.14





- 25.1. Battery List. The below list is for information purposes only.

No.	Voltage (DC)	Location/Use	Type	Qty
1	110V	SPS Main Battery	YHP11 Plante cells	56
2	110V	SPS Standby Battery	YHP11 Plante cells	56
3	110V	SPS SF6	YCP13 Plante cells	55
4	50V	SPS SF6	YCP33 Plante cells	24
5	24V	SPS No.1	5RCT350 Raylite cells	13
6	24V	SPS No.2	5RCT350 Raylite cells	13
7	110V	SPS UCW	AS17-12 Afribatt (sealed	10
8	24V	SPS UCW	NH12-77W (sealed )	4
9	50V	SPS Alarms	YCP09 Plante Cells	24

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No.	Voltage (DC)	Name / Pricing Schedule Item	Location/use	Cabinet / Required Dimensions	AC Inputs	DC Outputs	Photo
1	24V	SPS 24V Charger – Item 15.13	Steenbras Power Station	To be installed in existing cabinet of dimensions: (LxDxH) 1780x460x2300 Panel Width 900	Vin 380/400 V AC. 9.5/9 A	26 V DC, 156 A	
2	50V	SPS 50V SF6 Charger – Item 15.14	Steenbras Power Station	To be installed in existing cabinet of dimensions: (LxDxH) 3000x850x2300 Panel Width 630	380 V AC , 8 A, 3 phase	DC 50 V, 60 A	
3	110V	SPS 110V SF6 Charger – Item 15.15	Steenbras Power Station	To be installed in existing cabinet of dimensions: (LxDxH) 1900x460x2300 Panel Width 630	AC 220 V, 33 A, single phase	DC 110 V, 30 A	
4	110V	SPS 110V Main Bank Charger – Item 15.16	Steenbras Power Station	To be installed in existing cabinet of dimensions: (LxDxH) 2400x460x2300 Panel Width 630	AC 380/400 V, 22 A, 3 phases	DC 110 V, 50 A, 8 kVA	
5	110V	SPS 110V UCW Charger – Item 15.17	Steenbras Upper Control Works Remote Building	To be wall mounted. Dimensions (Not Specific): (LxDxH) 860x460x430	230V AC, 2A	123V DC, 15A	

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6	24V	SPS 24V UCW Charger – Item 15.18	Steenbras Upper Control Works Remote Building	To be installed in existing cabinet of dimensions: (LxDxH) 900x630x480	230V AC, 1A	24V DC, 5A	
7	110V	RGT 110V Charger – Item 15.12	Roggebaai Gas Turbine	Floor Standing. Dimensions of Available Area: (LxDxH) 600x600x995	Vin 380/400 V AC. 216/205 A	120 V DC, 80 A	
8	220V	AGT 220V Charger – Item 15.10	Athlone Gas Turbine	Floor Standing. Dimensions of Available Area: (LxDxH) 900x650x1800	Vin 400 V AC. 46 A, 3 phases	220V DC, 100A	
9	110V	AGT 110V Charger – Item 15.11	Athlone Gas Turbine	Floor Standing. Dimensions of Available Area: (LxDxH) 750x600x1540	Vin 400 V AC. 7.5 A, 3 phases	110 V DC, 30 A	

25.2. General Battery Charger Specifications

Charger can be of the following technologies:

1. Thyristor Controlled
2. Switch Mode Power Supply
3. Smart Charger using Microcontrollers or DSPs
4. Hybrid of the above technologies

Must contain following Alarm / Trip Relays with Normally Open / Common / Normally Closed contacts:

- Mains Failed
- Charger Failed
- Earth Fault
- Charger Mode (Float, Boost)
- Battery High Alarm
- Battery Low Alarm

Must contain the following protective measures:

Over Charge  
Under charge  
Over current  
Reverse Polarity protection

Set Float Voltage: 133.8V (Adjustable +- 10%)  
Set Boost Voltage: 139.8V (Adjustable +- 10%)  
Current Limit: 80A

Suitable for Chloride / Plante / Hoppecke Cells

Complete list of Spares to be provided for later procurement

The charger shall have a form of identification of the following metrics:

- Voltage
- Amps
- Boost Charge
- Float Charge

Full manual and Drawings to be provided with delivery of the product which shall also include any recommended maintenance

Drawings shall contain the following as a minimum:

- Cubicle Dimensions
- General Arrangement
- Circuit Board with Electronics
- Inputs / outputs

Manual to contain:

- Parts lists with model numbers
- General Operating instructions
- Maintenance instructions with periods
- Trouble Shooting

All specialized accessories and tools to be provided with the charger and included in the overall cost of the charger.

The charger shall contain an external communication method in order to draw crucial metrics from the charger such as current state, voltage, amps and additional metrics if available. This can be in the form of a serial connection or Ethernet modbus etc. A list of commands in the above regard shall be submitted with the manual.

### **Wiring, Terminations and Circuits**

All cubicle wiring shall be brought to terminal blocks and shall be neatly run and securely fixed in cleats or PVC trunking in such a manner that, wherever practicable, wiring can be checked without removing cleats.

Covers over individual sections of small wiring trunking shall be readily removable.

Terminal plates shall include spring-loaded terminals either of Werdmüller or Entrelec type or equivalent to approval conforming to IEC 60947-7-1 and shall be suitable for the wire sizes. Suitable trunking shall be fitted to the terminal plate to keep wiring neatly.

Terminations shall be grouped according to function and labels shall be provided on the fixed portion of the terminal showing the function or group. The terminals shall be numbered.

All wiring terminations shall be shrouded, to avoid accidental short-circuit or earthing of the battery. PVC insulated flat copper strip shall be used for connecting together the bottom terminals of the distribution fuses and links and shall be fully shrouded.

All small wiring and all multicore cables shall have ferrules which bear the same number at both ends. At the point of interconnection between wiring where a change of number cannot be avoided double ferrules shall be provided on each wire. The change of numbering shall be shown on the appropriate diagram of the equipment. The same ferrule shall not be used on wires in different circuits on the same panel. Numbering of ferrules shall comply with NRS 003-2 Annex A unless otherwise approved.

Ferrules shall be of insulating material and shall be provided with a glossy finish to prevent the adhesion of dirt. They shall be clearly and durably marked and shall not be affected by dampness or oil.

Wiring shall not be jointed or teed between terminal points. Any bus wires shall be fully insulated.

The copper conductors shall consist of multi-stranded annealed copper wires. The conductor sectional area shall be to approval.

The screens or screened pairs of multicore cables shall be earthed at one end of the cable only. The position of the earthing connections shall be shown clearly on the diagram.

All auxiliary and ancillary components shall be clearly labelled including all fuses, circuit breakers, output contacts, etc indicating, where necessary, the purpose and service positions. Label dimensions, legend, and method of printing shall be to approval. The surface shall have a matt or satin finish. Colours shall be permanent and free from fading. Labels shall be made from Trafalite or product similar to approval. Labels shall be black on white and permanently fixed by means of screws or rivets. Labels mounted on black surfaces shall have white lettering.

Circuits working at different voltages shall be adequately segregated and labelled.

All cubicle internal wiring shall be PVC insulated multi-strand flexible wire to SANS 1507. The conductor sectional area shall be to approval. Wire terminations shall be to approval.

All incoming and outgoing connections shall be terminated at a terminal block or MCB. Direct termination into auxiliary switches will not be accepted.

### **Fuses and Links**

Carriers and bases for fuses and links shall be in accordance with SANS 60269 and colour

coded black for fuses and white for links.

Fuses and links shall be grouped and spaced according to their function in order to facilitate identification.

Main supply fuse links shall be of the high rupturing capacity cartridge type.

Where fuse carriers are mounted vertically the incoming (supply) side shall be the top terminal.

Where either fuses or circuit breakers are used it should be ensured that proper discrimination between main and sub-circuits is maintained.

#### **Miniature Circuit Breakers (MCBs)**

The MCBs shall be air-break miniature circuit breakers with breaking capacity in accordance with IEC 60989-2 & SANS 60947-2

DC supply MCBs short circuit capacity shall be at least 5 kA with a time constant of at least 5 ms. All DC MCBs shall be the 2-pole type.

The tripping curve C characteristic in accordance with IEC 60898 shall be utilised.

All MCBs shall be wired with the source at the top and load at the bottom.

The MCBs shall be suitable for DIN-rail mounting.

#### **Other Requirements:**

- Charger shall provide voltage compensation for temperature
- The output voltage of the charger at any of the above settings shall be maintained within 1 % with any combination of input voltage and frequency within the ranges  $\pm 10$  % voltage variation, 49 to 50,5 Hz and between 0 % and 100 % of full load.
- All transformers including auxiliary transformers shall be of the double wound, air cooled type and shall have insulation between each winding of the transformer and other windings and the core to withstand 2,5 kVrms ac for one minute and immediately afterwards its resistance measured at 500 V dc shall not be less than 20 M $\Omega$ .
- The rectifier transformer taps, and input and output terminals shall be clearly marked and mounted in an accessible position.
- The battery charger shall have a soft start feature to prevent start-up current surges.
- The AC input to the charger shall be internally protected against overload or short circuit by a suitably rated fuse or by other means. Similarly, the DC output shall also be internally protected against overload or short circuit from the battery circuit by a suitably rated fuse or by other means. The DC output of the charger shall be protected against any over voltage condition. For over voltage conditions exceeding the alarm levels specified in the schedules, the charger shall disconnect from the battery and load outputs. The battery and load outputs shall automatically re-connect to the charger when the charger output voltage returns to normal.
- The charger shall consist of a suitable number of plug-in rectifier modules and controllers. The modules shall be hot-swappable (it shall be possible to replace individual rectifier modules without interrupting supply to the loads).
- The efficiency of the rectifiers shall be  $\geq 85$  % for all loading conditions.
- The allowable DC output ripple voltage over the frequency range shall be  $\leq 0,25\%$ .

#### **Battery Condition Tester**

Battery charger shall be equipped with a battery condition tester operated by a separate labelled spring-return non-latching pushbutton arranged, when pressed, to disconnect the input supply to the battery and discharge the battery through a resistor at approximately 10 A for a maximum of 15 s. This resistor shall be adequately rated for this duty and appropriately protected against over-temperature in the event that it is operated excessively. When released the pushbutton shall automatically restore the battery charger to the normal operation mode.

**26. Protection Systems – Pricing Schedule Items 16.1 – 16.8**

- 26.1. The client intends on using these items for testing existing relay systems with reports, repairs to existing protection systems including relays, current transformers and voltage transformers as well as upgrading analogue relays to new-age digital relays.
- 26.2. The following relays are listed in the pricing schedule. Equivalent relays that meet the specifications will also be evaluated and considered.

Relay OEM	Model	Configuration Number
ABB / Hitachi	REM543	REM543CG216AAAA
ABB / Hitachi	RET670	1MRK002810-AG

- 26.3. More specific details on the protection systems as well as line diagrams will be made available to the tendered after award at such a time the work on these systems are requested.
- 26.4. Line Item 16.9 – Provision for equipment is available for the hiring of specific test equipment eg: Omnicron or other injection sets, required for the testing of existing systems as well as for the commissioning of new protection systems.

**27. PLC Systems - Pricing Schedule Items 17.1-17.5**

- 27.1. The client owns multiple PLC assets at various Generation sites.
- 27.2. Currently, the three PLC systems on site are:
  - 27.2.1. Allen Bradley Control Net
  - 27.2.2. Mitsubishi A63P A2Acpu-S1
  - 27.2.3. Motorola ACE 3600
- 27.3. Labour rates for this item are for general PLC Specialists. The client is aware that there may be different specialists for different brands. The Tenderer can insert the lowest cost of the quotations (if the service is not provided by the main contractor).
- 27.4. Photos
  - 27.4.1. Allen Bradley



27.4.2. Mitsubishi



### 27.4.3. Motorola



## 28. SCADA Systems (Omniflex, Maxiflex and Adroit) – Pricing Schedule Items 18.1 – 18.5

- 28.1. The Station makes use of a Omniflex 260 system to distribute plant data and time stamped alarm data throughout the station which is then viewable on stations situated in strategic areas in the Power Station.
- 28.2. The Steenbras Power Station employs an Adroit (version 4.2) SCADA application which runs on PCs (personal computer) hardware located in both a server and a control room and is used for monitoring and recording of various Unit measured values and equipment states. The SCADA system also monitors the status of most plant auxiliaries (cooling water, switchgear statuses, and upper and lower dam water levels). Each Power Station Unit incorporates a Conlog Anaflex monitoring system for all analogue outputs from field instrumentation where each signal is processed for alarming and interlocking purposes.
- 28.3. More information on the existing system is contained in Schedule F15 Annexure C
- 28.4. The client requests services of individuals who contain specific experience on the Omniflex, Maxiflex and Adroit Systems. This will be in the form of labour costing
- 28.5. The Client is aware that these systems are out dated and no longer available. Therefore, repairs will need to be performed to this system using the existing components via pricing line item 18.5
- 28.6. Photo



**29. Motors – Pricing Schedule Items 19.1 – 19.7**

- 29.1. The purpose of item 29 of the specification is for work replating to the motors on Generation Sites
- 29.2. Labour rates are for intended for inspections and repairs to motors of various sizes and will be quoted for as an hourly rate
- 29.3. Materials for the rewinding or other repairs to the motors will be costed for under Pricing Schedule Line Items 19.6 and 19.7

**30. Crating – Pricing Schedule Item 20.1**

- 30.1. This item makes provision for any crating that is required for the duration of this contract
- 30.2. The crating mythologies are to be in line with the suppliers recommended transportation requirements
- 30.3. Crating may also be required for storage purposes on site, without the need for transportation.
- 30.4. This item carries a 5% cost for crating done by a sub-contractor. The item can still be used for non-subcontractor works but then the supplier may not charge the 5%. This may be verified by the contract manager.

**31. Precision and Metrology – Pricing Schedule Item 21**

- 31.1. **Scope**
  - 31.1.1. Provision of scientific metrology services to ensure accuracy, reliability, and traceability of all measurement systems
  - 31.1.2. Calibration, verification, and validation of condition monitoring and instrumentation equipment
  - 31.1.3. Support for maintenance, diagnostics, and performance optimisation of plant assets
- 31.2. **Measurement & Calibration Requirements**
  - 31.2.1. Perform high-precision measurements of mechanical, electrical, and dimensional parameters
  - 31.2.2. Calibration of instruments including (but not limited to):
  - 31.2.3. Vibration monitoring equipment
  - 31.2.4. Temperature sensors (RTDs, thermocouples)
  - 31.2.5. Pressure transmitters and gauges
  - 31.2.6. Flow measurement devices
  - 31.2.7. Electrical measurement instruments (voltage, current, resistance)
  - 31.2.8. Ensure all measurements are within specified tolerances and accuracy limits
- 31.3. **Accuracy & Tolerances**
  - 31.3.1. Ability to measure and verify components to fine tolerances (micron-level where applicable)

- 31.3.2. Ensure repeatability and reproducibility of measurements
- 31.3.3. Identify and report deviations from design specifications
- 31.4. **Compliance & Quality Assurance**
  - 31.4.1. Adherence to applicable power station standards, OEM requirements, and regulatory codes
  - 31.4.2. Implementation of a quality management system aligned with ISO standards
  - 31.4.3. Ensure all personnel are qualified and competent in metrology practices

### 32. Hydraulics – Pricing Schedule Item 22

- 32.1. **Scope of Work**
  - 32.1.1. Provision of hydraulic system services including inspection, maintenance, repair, calibration, and manufacturing
  - 32.1.2. Support for all plant hydraulic systems to ensure reliable, efficient, and safe operation
  - 32.1.3. Diagnosis and rectification of hydraulic faults and performance issues
- 32.2. **Inspection & Condition Assessment**
  - 32.2.1. Inspection of hydraulic systems including:
    - 32.2.1.1. Pumps, motors, cylinders, and valves
    - 32.2.1.2. Hydraulic piping, hoses, and fittings
    - 32.2.1.3. Reservoirs and filtration systems
  - 32.2.2. Identification of:
    - 32.2.2.1. Leaks, wear, and contamination
    - 32.2.2.2. Pressure losses and inefficiencies
    - 32.2.2.3. Component degradation and failure risks
- 32.3. **Testing & Calibration**
  - 32.3.1. Testing and calibration of:
    - 32.3.1.1. Pressure relief valves
    - 32.3.1.2. Flow control valves
    - 32.3.1.3. Pressure transmitters and gauges
  - 32.3.2. Verification of system performance against design specifications
  - 32.3.3. Use of calibrated test equipment to ensure accurate pressure and flow readings
- 32.4. **Maintenance & Repairs**
  - 32.4.1. Preventative and corrective maintenance on hydraulic components
  - 32.4.2. Repair or replacement of:
    - 32.4.2.1. Seals, hoses, fittings, and valves
    - 32.4.2.2. Pumps and hydraulic actuators
  - 32.4.3. Flushing and cleaning of hydraulic systems to remove contaminants
  - 32.4.4. Oil sampling and contamination control
- 32.5. **Hydraulic Manufacturing & Refurbishment**
  - 32.5.1. Manufacture and refurbishment of hydraulic components including:
    - 32.5.1.1. Cylinders (re-tubing, re-chroming, seal replacement)
    - 32.5.1.2. Custom hoses and pipework
    - 32.5.1.3. Manifolds and fittings
  - 32.5.2. Integration with reverse engineering where original specifications are unavailable
  - 32.5.3. Restoration of components to OEM or improved condition
- 32.6. **System Optimisation**
  - 32.6.1. Assessment and improvement of:
    - 32.6.1.1. System efficiency
    - 32.6.1.2. Pressure and flow balance
    - 32.6.1.3. Energy consumption
    - 32.6.1.4. Identification of design improvements to enhance reliability and lifespan
- 32.7. **Quality Control & Verification**
  - 32.7.1. Testing of repaired/manufactured components prior to installation
  - 32.7.2. Pressure and leak testing to confirm system integrity
  - 32.7.3. Verification of performance under operating conditions

### 33. Manufacturing / Fabrication – Pricing Schedule Item 23

- 33.1. **Scope of Work**
  - 33.1.1. Provision of manufacturing and fabrication services for the production, repair, and modification of plant components
  - 33.1.2. Supply of precision-engineered parts and fabricated structures in accordance with drawings, specifications, and metrology data

- 33.1.3. Support for maintenance, shutdowns, and emergency breakdown requirements
- 33.2. **Fabrication Capabilities**
  - 33.2.1. Fabrication of components and structures including:
    - 33.2.1.1. Structural steelwork
    - 33.2.1.2. Plates, brackets, and supports
    - 33.2.1.3. Piping and ducting systems
  - 33.2.2. Processes to include:
    - 33.2.2.1. Cutting (laser, plasma, waterjet, mechanical)
    - 33.2.2.2. Bending, rolling, and forming
    - 33.2.2.3. Welding and assembly
- 33.3. **Machining & Precision Manufacturing**
  - 33.3.1. CNC and conventional machining of components including:
    - 33.3.1.1. Shafts, housings, flanges, and fittings
  - 33.3.2. Ability to manufacture components to tight tolerances and high surface finish requirements
  - 33.3.3. Integration with metrology data and reverse engineering outputs where required
- 33.4. **Welding & Joining**
  - 33.4.1. Welding processes to include (as applicable):
    - 33.4.1.1. MIG, TIG, Stick (SMAW), Flux-cored
  - 33.4.2. All welding to be performed by qualified welders in accordance with approved procedures
  - 33.4.3. Provision of:
    - 33.4.3.1. Welding Procedure Specifications (WPS)
    - 33.4.3.2. Procedure Qualification Records (PQR)
    - 33.4.3.3. Non-destructive testing (NDT) where required (e.g. visual, dye penetrant, ultrasonic)
- 33.5. **Materials & Handling**
  - 33.5.1. Supply and use of materials in accordance with:
    - 33.5.1.1. Relevant standards and specifications
    - 33.5.1.2. Project and OEM requirements
  - 33.5.2. Proper material identification, traceability, and certification
  - 33.5.3. Handling and storage to prevent damage, contamination, or corrosion
- 33.6. **Quality Control & Inspection**
  - 33.6.1. Dimensional inspection of all manufactured components
  - 33.6.2. Verification against drawings, tolerances, and specifications
  - 33.6.3. Use of calibrated measuring equipment to ensure accuracy
  - 33.6.4. Final inspection prior to delivery or installation
- 33.7. **Surface Treatment & Finishing**
  - 33.7.1. Application of appropriate surface treatments including:
    - 33.7.1.1. Painting and protective coatings
    - 33.7.1.2. Galvanising or corrosion protection
    - 33.7.1.3. Machined surface finishing where required
  - 33.7.2. Preparation of surfaces to meet coating and durability requirements
- 33.8. **Documentation & Deliverables**
  - 33.8.1. Provision of:
    - 33.8.1.1. Manufacturing drawings (if applicable)
    - 33.8.1.2. Material certificates
    - 33.8.1.3. Inspection and quality reports
    - 33.8.1.4. Welding and NDT reports
  - 33.8.2. Maintenance of full traceability records

#### 34. High Speed Turbine Specialists – Pricing Schedule Item 24

- 34.1. **Scope of Work**
  - 34.1.1. Provision of specialist services for high-speed turbines, including inspection, maintenance, repair, and performance optimisation
  - 34.1.2. Support for critical rotating equipment to ensure safe, reliable, and efficient operation
  - 34.1.3. Capability to work on turbines during planned outages and emergency breakdowns
- 34.2. **Inspection & Condition Assessment**
  - 34.2.1. Detailed inspection of turbine components including:
    - 34.2.1.1. Rotors, shafts, and blades
    - 34.2.1.2. Bearings and seals
  - 34.2.2. Casings and couplings
- 34.3. Identification of:
  - 34.3.1. Wear, erosion, and corrosion

- 34.3.2. Imbalance, misalignment, and vibration issues
- 34.3.3. Cracking or fatigue-related defects
- 34.4. **Condition Monitoring & Diagnostics**
  - 34.4.1. Analysis and verification of:
    - 34.4.1.1. Vibration monitoring systems
    - 34.4.1.2. Temperature and pressure trends
    - 34.4.1.3. Rotor dynamics and balancing conditions
  - 34.4.2. Fault diagnosis using condition monitoring data
  - 34.4.3. Identification of early-stage failures and performance degradation
- 34.5. **Maintenance & Repairs**
  - 34.5.1. Preventative and corrective maintenance of turbine systems
  - 34.5.2. Repair or replacement of:
    - 34.5.2.1. Bearings and seals
    - 34.5.2.2. Damaged blades or rotating components
  - 34.5.3. Precision alignment and assembly of turbine components
  - 34.5.4. Execution of maintenance activities in accordance with OEM procedures
- 34.6. **Balancing & Alignment**
  - 34.6.1. High-speed rotor balancing (in-situ and workshop)
  - 34.6.2. Precision alignment of turbine shafts and couplings
  - 34.6.3. Verification of tolerances to minimise vibration and mechanical stress
- 34.7. **Precision Measurement & Tolerances**
  - 34.7.1. Use of advanced metrology techniques to measure:
    - 34.7.1.1. Runout, concentricity, and alignment
    - 34.7.1.2. Clearances and tolerances
  - 34.7.2. Ability to work within tight tolerances required for high-speed rotating equipment
- 34.8. **Manufacturing & Refurbishment Support**
  - 34.8.1. Integration with reverse engineering and manufacturing teams for:
    - 34.8.1.1. Refurbishment of turbine components
    - 34.8.1.2. Manufacture of replacement parts where OEM parts are unavailable
  - 34.8.2. Restoration of components to OEM or improved performance standards
- 34.9. **Quality Control & Testing**
  - 34.9.1. Functional testing of turbine components post-maintenance
  - 34.9.2. Verification of performance under operating conditions
  - 34.9.3. Confirmation of vibration levels within acceptable limits
- 34.10. **Documentation & Reporting**
  - 34.10.1. Provision of:
    - 34.10.1.1. Inspection and condition assessment reports
    - 34.10.1.2. Maintenance and repair records
    - 34.10.1.3. Balancing and alignment reports
    - 34.10.1.4. Performance and diagnostic reports
  - 34.10.2. Maintenance of a turbine service history and condition records

### 35. Solar System Specialists – Pricing Schedule Item 25

- 35.1. Provision for basic upgrades, services and repairs of solar systems
- 35.2. Staff should possess a strong knowledge of Solar Panel Installations, Inverter Installations as well as installation materials / techniques.
- 35.3. All work to be installed in conjunction with and comply to:
  - 35.3.1. SANS10142-1
  - 35.3.2. SANS 60364-7-712
  - 35.3.3. Client will require a COC from an individual registered with the Department of Labour for all changes to electrical systems.

### 36. Health and Safety

- 36.1. Occupational Health and Safety Agreement
  - 36.1.1. The Contractor shall enter into an Agreement with the Employer before the commencement of the Works on Site.
  - 36.1.2. Good standing with the Compensation Fund or a licensed compensation insurer
  - 36.1.3. The Contractor shall provide the Engineer with a letter of good standing from the Compensation Commissioner or a licensed compensation insurer before the commencement of the Works on Site.
- 36.2. Emergency procedures

36.2.1. The Contractor shall submit for acceptance to the Engineer a health and safety emergency procedure, which includes but is not limited to fire, spills, accidents and exposure to hazardous substances, which:

36.2.2. identifies the key personnel who are to be notified of any emergency;

36.2.3. sets out details of available emergency services, including contact particulars; and the actions or steps which are to be taken during an emergency.

36.3.

The Contractor shall within 24 hours of an emergency taking place notify the Engineer in writing of the emergency and briefly outline what happened and how it was dealt with.

36.4. Health and safety file

36.4.1. 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 Engineer, 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 Engineer 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.

36.5. Inspections, formal enquires and incidents

36.5.1. The Contractor shall inform the Engineer: beforehand of inspections, investigations or formal inquiries of which he has been notified by an inspector; and as soon as reasonably practicable of the occurrence of an incident (as defined in the OHS Act) on the Site.

36.5.2. The Contractor shall record all incidents and notify the Engineer 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 Engineer with copies of such investigations.

36.6. Personal protective equipment and clothing

36.6.1. The Contractor shall ensure that all workers are issued with the necessary personal protective clothing.

36.7. General

36.7.1. The Contractor shall with respect to the Site and the construction works that are contemplated: cause a preliminary hazard identification to be performed by a competent person before commencing any physical construction activity; 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 as far as is reasonably practicable, prevent the exposure of such employees to the hazards concerned or, where prevention is not reasonably practicable, minimize such exposure.

36.7.2. The Contractor shall ensure that:

36.7.3. all reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work;

36.7.4. no structure or part of a structure is loaded in a manner which would render it unsafe;

36.7.5. relevant information, if any, provided by the designer of the structure is taken into account in the risk assessment; and

36.7.6. the designer of any temporary works complies with the requirements of regulation 6(2) of Construction Regulations, 2014

36.8. Risk

assessment

The Contractor shall before the commencement of any construction work on Site and during such construction work, cause risk assessment(s) to be performed by a competent person appointed in writing. Such assessment(s) shall as a minimum:

- 36.8.1. identify the risks and hazards to which persons may be exposed to;
- 36.8.2. analyse and evaluate the identified risks and hazards based on a documented method;
- 36.8.3. 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;
- 36.8.4. provide a monitoring plan; and
- 36.8.5. provide a review plan.

- 36.9. 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
- 36.9.1. where changes are effected to the design and or construction that result in a change to the risk profile; or
  - 36.9.2. when an incident has occurred.

36.10. Health and safety plans

36.10.1. 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:

- 36.10.2. The safety management structure, including the names of all designated persons such as the construction supervisor and any other competent persons;
- 36.10.3. Safety method statements and procedures to be adopted to ensure compliance with the OHS Act; Construction Regulations, 2014 and this Health and Safety Specification;
  - 36.10.3.1. The provision and use of temporary services;
  - 36.10.3.2. Personal protective equipment, devices and clothing required;
  - 36.10.3.3. Emergency procedures;
  - 36.10.3.4. Provision of workers' welfare facilities;
  - 36.10.3.5. Induction and training;
  - 36.10.3.6. Arrangements for monitoring and control to ensure compliance with the safety plan;  
and
  - 36.10.3.7. Provision and maintenance of the health and safety file and all other relevant documentation.

36.11.

The Contractor shall provide each subcontractor with the sections of this Health and Safety Specification pertaining to the construction 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.

36.11.1. Work permits and wayleaves

36.11.2. 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.

**36.12. First aid and emergency procedures**

36.12.1. 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.

**36.13. Housekeeping**

36.13.1. The Contractor shall ensure, inter alia, that suitable housekeeping is continuously implemented on the Site, including provision for the:

36.13.2. 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

36.13.3. proper stacking and storage of materials and equipment (in accordance with Construction Regulations 27 and 28).

**36.14. Fire precautions**

36.14.1. 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 Part C3.5 of the Scope of Work.

**36.15. Facilities for workers**

36.15.1. The Contractor shall provide ablution facilities and eating areas.

## **37 PAYMENT**

No payments will be made to any contractor for work done until the project manager is satisfied that the work outlined in the contract has been completed to a satisfactory standard.

Unless

The work is in agreement with specification 16 – Advanced Payments. This will be discussed and agreed upon before purchase order is issued.

## **38 SITE INFORMATION (9.0)**

### **Site location**

The City of Cape Town owns and operates a pumped storage power station within the licensed area of electricity supply, situated at Steenbras Power Station, off Sir Lowry Road outside Gordon's Bay

Athlone Gas Turbine is located at the old Athlone Power Station, off Bhunga Avenue, Langa

Roggebaai Gas Turbine is located behind the CTICC in Foreshore / entrance to the water front

## **39. APPOINTMENT OF CONTRACTOR**

It is the City's intention to appoint one service provider for this tender. Tenderers must price for

all items for both Sections A, B and C

**40 ] TRADE NAMES OR PROPRIETARY PRODUCTS**

Tenderers/Suppliers 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”.

**[ 41 ] 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 or its agent, upon request.

**[ 42 ] FORMS FOR CONTRACT ADMINISTRATION**

The Supplier shall complete, sign and submit with each invoice, the following:

- a) Monthly Project Labour Report (described below)

The Monthly Project Labour Report must include details of all labour (including that of sub-contractors) that are South African citizens earning less than **[R500 ]** 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.

## C.6 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 agreement.

### 1. Definitions

*Insert new clause 1.1A with the following:*

- 1.1A “Commencement Date” means the date the Supplier confirms receipt from the Purchaser of 1 (one) complete, signed copy of the Contract, the *Schedule of Deviations* (if any).
- 1.1B “Conditions of Contract” means the general conditions of contract and special conditions of contract including all other contract data incorporated by reference.

*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 agreement. 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 (chosen domicilium citandi et executandi).

*Add the following after Clause 1.25:*

- 1.26 ‘Supplier’ means the provider of Goods and / or Services with whom the Contract is concluded also referred to as “contractor” in the GCC.
- 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
- 1.28 “Working Day” means Monday to Friday excluding weekends and Public Holidays (in the Republic of South Africa).

### 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 If the Supplier is a joint venture, all parties in a joint venture or consortium shall be jointly and severally liable to the Purchaser in terms of the 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/or Services 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 as amended from time to time. If the Purchaser 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 the 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 termination of the Contract, restriction of the Supplier, and/or the exercise by the CCT of any other remedies available to it as described in the SCM Policy or in law.
- 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 Purchase Order by the Purchaser and no later than the periods as set out in the Contract:
- 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, and
  - d) Other requirements as detailed in the Contract.
- 3.5.2 Only when notified of the acceptance of the bid on the Date of Commencement of Contract, the Supplier shall commence with and carry out the Delivery of the Goods and/or Services 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 and/or Services 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 and/or Services 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 due to the Supplier.
- 3.5.11 Comply with the provisions of the OHAS 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 Purchaser Orders for the Goods and/or Services required under this Contract. No liability for payment will ensue for arising out of the Delivery of the Goods and/or Services, unless a Purchase Order

has been issued to the Supplier.

- 3.6.2 Make payment to the Supplier for the Goods and/or Services as set out herein.
- 3.6.3 Take possession of the Goods and /or Services 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.
- 3.6.6 Grant or refuse any extension of time requested by the Supplier of the period stated in clause 10.
- 3.6.7 Inspect the Goods and/or Services 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 the 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 agreement and need not obtain the Supplier's permission to copy it 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 in terms of the agreement and the Purchaser hereby indemnifies the Supplier against any claim which may be made against it by any person / entity, 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 agreement within two (2) years of Delivery of the Goods, 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 agreement, 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 Purchaser.
  - 5.8.2 The Supplier hereby assigns to the Purchaser, all Intellectual Property created, developed or otherwise brought into existence by it for the purposes of the agreement, 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 Purchaser's Intellectual Property for any purpose other than as contemplated in the agreement;
    - 5.8.3.2 not modify, add to, change or alter the Purchaser'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 Purchaser;

- 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 Purchaser;
- 5.8.3.4 Comply with all reasonable directions or instructions given to it by the Purchaser in relation to the form and manner of use of the CCT Intellectual Property, including without limitation, any brand guidelines which the Purchaser may provide to the Supplier from time to time;
- 5.8.3.5 Ensure that its employees, directors, members and contractors comply strictly with the provisions of this Clause 5.5.8.4 above unless the Purchaser expressly agrees to the contrary, in writing and only after obtaining due internal authority for such agreement.
- 5.8.4 The Supplier represents and warrants to the Purchaser that, in providing Goods and/or Services for the duration of the agreement it will not infringe or make unauthorised use of the Intellectual Property rights of any third party and hereby indemnifies the Purchaser 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 Upon expiry of the contract period and in the event that the Contract is terminated, ended or is declared void, any and all of the Purchaser's Intellectual Property, and any and all information and data related thereto, shall be immediately handed over to the Purchaser by the Supplier and no copies thereof shall be retained by the Supplier unless the Purchaser expressly and in writing, after obtaining due internal authority, agrees otherwise.

*Add the following after clause 5.8:*

**5.9 Protection of Personal Information Act of 2013**

By submitting a tender to the Purchaser, (and by concluding any ensuing related agreement with the City of Cape Town, if applicable), the Tenderer thereby acknowledges and unconditionally agrees:

- 5.9.1 that the tenderer has been informed of the purpose of the collection and processing of its personal information as defined in the Protection of Personal Information Act of 2013 ("POPIA"), which, for the avoidance of doubt is for, and in relation to, the tender process and the negotiation, conclusion, performance and enforcement of the ensuing agreement, if applicable, as well as for the City of Cape Town's reporting purposes;
- 5.9.2 to the collection and processing of the tenderer's personal information by the City of Cape Town and agrees to make available to the City of Cape Town, all information reasonably required by the City of Cape Town for the above purposes;
- 5.9.3 that the personal information the City of Cape Town collects from the tenderer or about the tenderer may be further processed for other activities and/or purposes which are lawful, reasonable, relevant and not excessive in relation to the purposes set out above, for which it was originally collected;
- 5.9.4 that, the tenderer indemnifies the City of Cape Town and its officials, employees, and directors and undertakes to keep the City of Cape Town and its officials, employees, and directors indemnified in respect of any claim, loss, demands, liability, costs and expenses of whatsoever nature which may be made against the City of Cape Town (including the costs incurred in defending or contesting any such claim) in relation to the tenderer or the tenderer's employees', representatives' and/or sub-Suppliers' non-compliance with POPIA and/or the City of Cape Town's failure to obtain the tenderer's consent or to notify the tenderer of the reason for the processing of the tenderer's personal information;
- 5.9.5 to the disclosure of the tenderer's personal information by the City of Cape Town to any third party, where the City of Cape Town has a legal or contractual obligation to disclose such personal information to the third party (or a legitimate interest exists therein);
- 5.9.6 that, under POPIA, the tenderer may request to access, confirm, request the correction, destruction, or deletion of, or request a description of, personal information held by the City of Cape Town in relation to you, subject to applicable law; and

that under POPIA, subject to applicable law, the tenderer also has the right to be notified of a personal information breach and the right to object to, or restrict, the City of Cape Town's processing of its personal information.

## 5.10 **PERFORMANCE MONITORING**

- 5.10.1 As required by section 116(2)(b) of the Local Government: Municipal Financial Management Act 56 of 2003, the CCT shall monitor the performance of the Supplier on at least a monthly basis, and the Supplier agrees to provide the CCT with its full cooperation in this regard.

## 7. Performance Security

Not Applicable. Tenderers must disregard the **Pro Forma Performance Security/ Guarantee** and are not required to furnish same.

## 8. Inspections, tests and analyses

*Delete Clause 8.2 and substitute with the following:*

- 8.2 If it is a bid condition that Goods and/or Services 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 Supplier 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 Purchase Order. In the case of agreements for Delivery of goods in terms of framework or panel agreements, Purchase Orders for the supply and delivery of goods may be raised up until the expiry of a framework or panel agreement, provided that the goods can be delivered within 30 (thirty) days of expiry of the framework or panel agreement. In this context, the "goods" does not include services and carries its ordinary meaning. All Purchase Orders other than for the supply and Delivery of goods (i.e. supply of services, professional services or constructions works), must be completed prior to the expiry of the contract period.
- 10.2 The Purchaser shall determine, in its sole discretion, whether the Goods and/or Services 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 and/or Services 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 such written 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:
- 11.2.1 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;
- 11.2.2 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;
- 11.2.3 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 Supplier's broker or the insurance company itself (see the Pro Forma Insurance Broker's Warranty).

[11.2.4 In the case of Contracts for delivery of professional services, Professional indemnity insurance providing cover in an amount of not less than **[R5 million]** in respect of each and every claim during the contract period.]

11.2.5 In the event of under insurance or the insurer’s repudiation of any claim for whatever reason, the Purchaser will retain its right of recourse against the Supplier.

11.3 The Supplier shall be obliged to furnish the Purchaser with proof of such insurance as the Purchaser 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 Pro forma Insurance Broker’s Warranty or copies of the insurance policies.

**15. Warranty**

*Add to Clause 15.2:*

15.2 The warranty for this Contract shall remain valid for twelve (12) months from date of Delivery of the Goods and/or Services for all procurements, unless the purchased component or service carries a longer warranty from the manufacturer / service provider, in which case, the longer warranty shall apply.

If an item is manufactured using multiple components, the warranty of those individual components will remain effective if it is longer than 12 months.

**16. Payment**

*Delete Clause 16.1 in its entirety and replace with the following:*

16.1 Payment of invoices will be made:

16.1.1 Within 30 (thirty) days of receiving the relevant invoice or statement from the Supplier, unless otherwise prescribed for certain categories of expenditure or specific contractual requirements in accordance with any other applicable policies of the Purchaser.

16.1.2 Notwithstanding anything contained above, the Purchaser shall not be liable for payment of any invoice that pre-dates the date of delivery of any Goods and/or Services.

*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 Purchase Order, the Supplier shall only be entitled to payment for Goods and/or Services actually delivered in terms of the Specification and Drawings, or any variations thereof made in accordance with clause 18. Any contingency sum included shall be for the sole use, and at the discretion, of the Purchaser.

16.6 The Purchaser will only make advanced payments to the Supplier in strict compliance with the terms and conditions as contained in the Pro forma Advanced Payment Guarantee and only once the authenticity of such guarantee has been verified by the Purchaser’s Treasury Department.

16.6.1 The Advance Payment Schedule applicable to this Contract is set out below. The items of plant and materials which have been identified by the Purchaser as being suitable for advance payment in terms of this Contract are listed in the table below, and for which the Purchaser is prepared to make advance payment to the Supplier, subject to the conditions below. Should an item or items be added to the list at tender stage by a tenderer, no obligation to advance payment shall be incurred by the Purchaser, for such items added by the tenderer except as provided for herein.

Plant and materials which have been manufactured and are stored by the supplier	Plant and materials yet to be manufactured and for which a deposit with order is required from the
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	supplier by a third party manufacturer/supplier, and which may be stored by the supplier:

- 16.6.2 The Supplier can only rely on advance payment being permitted by the Purchaser in respect of the plant and materials listed in the table above. The Purchaser may, however, permit advance payment for other plant and materials in exceptional circumstances and at its sole discretion, during the course of the Contract, and upon reasonable request from the Supplier.
- 16.6.3 Advance payment for the purposes of deposits will only be provided up to a limit of **40 %** of the value of any one item being claimed.
- 16.6.4 The Supplier shall provide the Purchaser with documentary evidence of the terms and conditions for which a deposit with order is required by a third party manufacturer/supplier, together with the advance payment guarantee.
- 16.6.5 The Supplier will also be permitted to obtain advance payment for the balance of the value of the plant and materials in respect of which he has paid a deposit, for an item which after manufacture is stored by the Supplier. The Supplier shall, in respect of such payment, provide an advance payment guarantee, either for such balance or, if the advance payment guarantee in respect of the deposit is to be returned by the Purchaser upon request, for the whole value of the item.

**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 Purchaser delegated authority 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 and/or Services delivered and services performed shall be subject to contract price adjustment in terms of Schedule F.1 Contract Price Adjustment and/or Rate of Exchange Variations and the following conditions will be applicable:

**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 and/or Services, extension of the contract period or increases in the value of the Contract as a result of written instructions issued by the Purchaser to the Supplier. Such changes are 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, the Purchaser’s liability for payment shall no arise until such time as the change has been duly approved and such approval communicated to 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 Purchaser and the subcontractor, or a responsibility or liability on the part of the Purchaser 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 obligations contained in the Contract the Supplier or its subcontractors should encounter conditions beyond their reasonable control which impede the timely delivery of the Goods and/or Services, the Supplier shall notify the Purchaser in writing, within 7 (seven) 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 this Contract shall be deemed to prohibit the obtaining of Goods and/or Services 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 and/or Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from amounts payable, 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 [measured against the timelines agreed to by the employer and the contractor in the program which is to be submitted as part of the quality control plan. The penalty will be 5% of the Purchase Order for that specific line on the Purchase Order once 7 days over the agreed program is reached. Thereafter, an additional 1% shall be deducted every week until a maximum of 15%. The City of Cape town's representative holds the right to extend the program should unforeseen circumstances arise or should the scope of the purchase order vary.

After the 15 % is reached, the contract manager will issue a breach notice and thereafter the supplier dissatisfactory process will be followed which may result in cancellation of the contract.

It should be noted that the contract manager will make every effort to engage with the contractor around delays and will first request acceleration of the program. GCC contract delays will also be taken into account and considered.

]

- 22.2 The Purchaser shall, without prejudice to its other remedies under the contract, deduct from amounts payable, financial penalties as contained on the Preference Schedule for 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 If the Parties, by mutual agreement, terminate the Contract.

23.8.3 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 the Contract may be terminated by the Purchaser (upon conclusion of applicable processes by the City Manager as described in the Purchaser's SCM Policy).

23.8.4 Reputational risk or harm to the Purchaser

The Purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, may terminate the contract if the implementation of the contract may result in reputational risk or harm to the Purchaser as a result of (inter alia):

- a) reports of poor governance and/or unethical behaviour;
- b) association with known notorious individuals and family of notorious individuals;
- c) poor performance issues, known to the Purchaser
- d) negative social media reports;
- e) adverse assurance (e.g. due diligence) report outcomes; or
- 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), where the person is or was negatively implicated in any SCM irregularity.

By or in relation to the Supplier, the Contract may be terminated by the Purchaser after providing notice to the Supplier.

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 In the event of the Supplier becoming bankrupt or otherwise insolvent the Purchaser may elect to:

26.1.1 At any time, terminate the Contract by giving written notice to the Supplier; or

26.1.2 Accept a Supplier's proposal (via the liquidator) to render delivery utilising the appropriate contractual mechanisms or takes steps to ensure its rights are protected and any negative impact on service delivery is mitigated.

26.2 In the event of the Purchaser electing to cancel the Contract in accordance with clause 26.1.1 above, the Purchaser shall make payment of all verified and signed off invoices. In the event of there being any dispute in respect of any outstanding invoices such dispute shall be dealt with in accordance with the dispute resolution mechanism in the Contract.

## 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 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 (a) and (b) and replace with the following:*

(a) notwithstanding any provision to the contrary contained in this contract, neither the supplier nor any of its officers, directors, employees, agents contractors, consultants or other representatives shall be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect, incidental, special or consequential loss or damage of any kind, including without limitation the loss of use, loss of production, or loss of profits or interest costs, loss of goodwill, lost or damaged data or software, costs of substitute products/services and/or loss of business or business opportunities (whether foreseeable or unforeseeable), provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser;

(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 day delivery of delivery or the next Working Day,
  - 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 Tenderer to submit evidence in the form of a valid Tax Compliance Status PIN 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.

*Add the following after clause 32.3:*

32.4 The VAT registration number of the CCT 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 including Monthly Project Labour Reports (Annexure B). Any failure in this regard may result in a delay in the processing of payments.

## C.7 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](http://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 as 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.
- 1.3 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.

## Annexure A – Pro Forma Insurance Broker’s Warranty



*Letterhead of supplier’s Insurance Broker*

Date \_\_\_\_\_

CCT  
City Manager  
Civic Centre  
12 Hertzog Boulevard  
Cape Town  
8000

Dear Sir

**TENDER NO.:** 2023/24

**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 CCT 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)

# Annexure B – Monthly Project Labour Report

## ANNEX 1

### CITY OF CAPE TOWN MONTHLY PROJECT LABOUR REPORT



#### Instructions for completing and submitting forms

##### General

- 1 The Monthly Project Labour Reports must be completed in full, using typed, proper case characters; alternatively, should a computer not be available, handwritten in black ink.
- 2 Incomplete / incorrect / illegible forms will not be accepted.
- 3 Any conditions relating to targeted labour stipulated in the Contract (in the case of contracted out services or works) shall apply to the completion and submission of these forms.
- 4 This document is available in Microsoft Excel format upon request from the City's EPWP office, tel 021 400 9406, email EPWPLR@capetown.gov.za.

##### Project Details

- 5 If a field is not applicable insert the letters: NA
- 6 Only the Project Number supplied by the Corporate EPWP Office must be inserted.  
The Project Number can be obtained from the Coordinator or Project Manager or from the e-mail address in point 4 above.
- 7 On completion of the contract or works project the anticipated end date must be updated to reflect the actual end date.

##### Beneficiary Details and Work Information

- 8 Care must be taken to ensure that beneficiary details correspond accurately with the beneficiary's ID document.

- 9 A new beneficiary is one in respect of which a new employment contract is signed in the current month. A certified ID copy must accompany this labour report on submission.
- 10 Was the beneficiary sourced from the City's job seeker database?
- 11 The contract end date as stated in the beneficiary's employment contract.
- 12 Where a beneficiary has not worked in a particular month, the beneficiary's name shall not be reflected on this form at all for the month in question.
- 13 Training will be recorded separately from normal working days and together shall not exceed the maximum of 23 days per month
- 14 Workers earning more than the maximum daily rate (currently R450 excluding any benefits) shall not be reflected on this form at all.

##### Submission of Forms

- 15 Signed hardcopy forms must be scanned and submitted to the City's project manager in electronic (.pdf) format, together with the completed form in Microsoft Excel format.
- 16 Scanned copies of all applicable supporting documentation must be submitted along with each monthly project labour report. Copies of employment contracts and ID documents are only required in respect of new beneficiaries.
- 17 If a computer is not available hardcopy forms and supporting documentation will be accepted.

#### PROJECT DETAILS

Numbers in cells below e.g (6) refer to the relevant instruction above for completing and submitting forms

CONTRACT OR WORKS PROJECT NAME: (6)		EPWP SUPPLIED PROJECT NUMBER: (6)																	
DIRECTORATE:		DEPARTMENT:																	
CONTRACTOR OR VENDOR NAME:		CONTRACTOR OR VENDOR E-MAIL ADDRESS:																	
CONTRACTOR OR VENDOR CONTACT PERSON:		CONTRACTOR OR VENDOR TEL. NUMBER:																	
PROJECT LABOUR REPORT CURRENT MONTH (mark with "X")		CELL WORK																	
JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR							

ACTUAL START DATE (yyyy/mm/dd)						ANTICIPATED / ACTUAL END DATE (yyyy/mm/dd) (7)					
TOTAL PROJECT EXPENDITURE / VALUE OF WORK DONE TO-DATE (INCLUDING ALL COSTS, BUT EXCLUDING VAT)											
R											

MONTHLY PROJECT LABOUR REPORT

BENEFICIARY DETAILS AND WORK INFORMATION



CONTRACT OR WORKS PROJECT NUMBER:				Year    Month		Sheet							
						1    of							
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)	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
0											0 R		-
Declared by Contractor or Vendor to be true and correct:				Name			Signature						
				Date									
Received by Employer's Agent / Representative:				Name			Signature						
				Date									

## Annexure C - Pro Forma Performance Security/ Guarantee

### NOT APPLICABLE

#### 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 CCT 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 CCT 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 CCT intends to call upon the Guarantor to make payment in terms of 4.2;
  - 4.2 A first written demand issued by the CCT 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 CCT the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the CCT 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 CCT 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 CCT's bank compounded monthly and calculated from the date payment was made by the Guarantor to the CCT 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 CCT shall have the absolute right to arrange its affairs with the Supplier in any manner which the CCT 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) .....

**Approved Financial Institution as at August 2025 :**

Not Applicable

# Annexure D - Pro Forma Advance Payment Guarantee

## ADVANCE PAYMENT GUARANTEE

### 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: .....

"Contract" means: The agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the Parties.

"Plant and materials" means: The Plant and materials in respect of which an advance payment prior to manufacture is required, which the CCT has agreed may be subject to advance payment, such Plant and materials being listed in the Schedule of Plant and materials.

"Schedule of Plant and materials" means: A list of Plant and materials which shows the value thereof to be included in the Guaranteed Advance Payment Sum.

"Guaranteed Advance Payment Sum" means: The maximum amount of R.....

Amount in words: .....

1. The Guarantor's liability shall be limited to the amount of the Guaranteed Advance Payment Sum.
2. The Guarantor's period of liability shall be from and including the date of issue of this Advance Payment Guarantee and up to and including the termination of the Contract or the date of payment in full of the Guaranteed Advance Payment Sum, whichever occurs first.
3. The Guarantor hereby acknowledges that:
  - 3.1 any reference in this Advance Payment Guarantee to the 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 Advance Payment Guarantee 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 CCT the sum advanced to the Supplier upon receipt of the documents identified in 4.1 to 4.2:
  - 4.1 A copy of a first written demand issued by the CCT to the Supplier stating that payment of a sum advanced by the CCT has not been repaid by the Supplier in terms of the Contract ("default") and failing such payment within seven (7) calendar days, the CCT intends to call upon the Guarantor to make payment in terms of 4.2;
  - 4.2 A first written demand issued by the CCT to the Guarantor at the Guarantor's physical address with a copy to the Supplier stating that a period of seven (7) calendar days has elapsed since the first written demand in terms of 4.1 and the sum advanced has still not been repaid by the Supplier.
5. Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the CCT the Guaranteed Advance Payment Sum or the full outstanding balance not repaid upon receipt of a first written demand from the CCT to the Guarantor at the Guarantor's physical address calling up this Advance Payment Guarantee, such demand stating that:

- 5.1 *the Contract has been terminated due to the Supplier's default and that this Advance Payment Guarantee 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 Advance Payment 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. *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 CCT shall have the absolute right to arrange its affairs with the Supplier in any manner which the CCT may deem fit and the Guarantor shall not have the right to claim his release from this Advance Payment Guarantee 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 Advance Payment Guarantee 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 shall be returned to the Guarantor after it has expired.*
- 12. *This Advance Payment Guarantee, 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) .....

## **Approved Financial Institution as at 13 August 2025**

### 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  
Old Mutual Alternative Risk Transfer Insure Limited (OMART Insure)  
New National Assurance Company Limited  
PSG Konsult Ltd (previously Absa Insurance)  
Regent Insurance Company Limited  
Renasa Insurance Company Limited  
Santam Limited

# Annexure F - Tender Returnable Documents

## Schedule F.1: Contract Price Adjustment

### 1. TENDER CONDITIONS

- 1.1 The Contract Price Adjustment (CPA) mechanism and/or provisions relating to Rate of Exchange (RoE) Variation, contained in this schedule is compulsory and binding on all Tenderers/Suppliers and this schedule (the parts relevant to the particular tender) must be completed by all Tenderers / Suppliers.
- 1.2 Tenderers/Suppliers are not permitted to amend, vary, alter or delete this schedule or any part thereof unless otherwise stated in this schedule.
- 1.3 Tenderers are not permitted to offer fixed and firm prices except as provided for in the Price Schedule.

### 2. CPA PROVISIONS SELECTION

- 2.1 The prices stipulated on the Price Schedule are subject to adjustment as set out below.
- 2.2 Tenderer to indicate the specific CPA and/or RoE provisions applicable to their bid by marking the relevant checkboxes below. Tenderers to note that the CPA and/or RoE provisions are not exclusive and multiple CPA Types can exist if the bid contains both local and foreign exchange based pricing. In such cases the CPA and/or ROE provision applies only to that particular portion of the tendered price.
- 2.3 The CPA and/or RoE provisions applicable to this tender and resulting contract are to be indicated below by checking the relevant boxes (with multiple selections only where indicated permissible):

	<u>Indicate option</u>	<u>CPA Type</u>	<u>Period</u>	<u>Refer to Section</u>
A	<input checked="" type="checkbox"/>	<b>FIRM PRICES</b> as per Pricing Schedule	Annual	<i>Pricing Schedule C.4 and Schedule F.1 (A)</i>
<b><u>LOCAL (RSA) TENDER CONTENT:</u></b>				
<b>EITHER</b>				
B	<input type="checkbox"/> N/A	SEIFSA Index based CPA	Monthly / Quarterly	<i>Schedule F.1 (B)</i>
<b>OR</b>				
C	<input type="checkbox"/>	Pricelist / Quotation Based CPA	Ad-Hoc	<i>Schedule F.1 (C)</i>
<b>OR</b>				
D	<input type="checkbox"/> N/A	STATS SA CPI Index Based CPA	Annually	<i>Schedule F.1 (D)</i>
<b>OR/AND</b>				
E	<input type="checkbox"/> N/A	Sectorial Determination 1: Contract Cleaning Sector	Annually	<i>Schedule F.1 (E)</i>
<b>OR</b>				
E	<input type="checkbox"/> N/A	Sectorial Determination 6: Private Security Sector	Annually	<i>Schedule F.1 (E)</i>
<b><u>IMPORTED GOODS AND / OR COMPONENTS (IF APPLICABLE)</u></b>				
F	<input type="checkbox"/>	ROE based CPA	Ad-Hoc	<i>Schedule F.1 (F)</i>
<b>AND (IF REQUIRED), EITHER</b>				
G	<input type="checkbox"/>	Pricelist / Quotation based CPA	Ad-Hoc / Periodic	<i>Schedule F.1 (G)</i>
<b>OR</b>				
H	<input type="checkbox"/> N/A	Overseas CPI / PPI index based CPA	Ad-Hoc / Periodic	<i>Schedule F.1 (H)</i>

2.4 CPA and/or RoE provisions marked as **not applicable** is not relevant and will not apply to this tender and resulting contract.

### 3. CONTRACT CPA APPLICATIONS AND ADMINISTRATION

3.1 Any claim for variation in the contract price (either CPA or RoE adjustments) must be submitted in writing:

- i. By letter to: Director (**Edgar Capes**, City of Cape Town, P O Box 655, Cape Town, 8000 or
- ii. By email to: **Brent John van der Berg**. [Brentjohn.vanderberg@capetown.gov.za](mailto:Brentjohn.vanderberg@capetown.gov.za)

**at least 14 days prior** to the month upon which the adjustment would become effective in the case of prices being set in advance, and as soon as relevant indices are available and no later than 60 days after the date of delivery of goods or the completion of the project (i.e. date of issue of the Taking-Over Certificate, if applicable) in the case of adjustments being claimed retrospectively for Goods or Services. The latter case is only applicable where specifically provided for in the CPA provisions.

3.2 When submitting a request for CPA and/or RoE adjustment the Supplier shall indicate the Rand Value claimed for each item listed on C.4 - Price Schedule, clearly indicating the item number as per C.4 - Price Schedule. Percentage increases will not be considered. A mere notification of a request for CPA without stating the new price claimed for each item shall, for the purpose of this clause, not be regarded as a valid request.

3.3 The CCT reserves the right to request the Supplier to submit auditor's certificates or such other documentary proof as it may require in order to verify a claim for CPA or RoE adjustments. Price adjustments will not be processed until such time as the Supplier submits such auditor's certificates or other documentary proof to the CCT. Should the Supplier fail to submit the auditor's certificates or other documentary proof to the CCT within 30 days from the written request, it shall be presumed that the Supplier has abandoned his request.

3.4 The CCT reserves the right to withhold payment of any claim for adjustment while only provisional figures are available and until such time as the final (revised) figures are issued by the relevant authority.

3.5 The CCT will confirm in writing once processing of the CPA or RoE adjustments have been completed including the effective date of the adjustments.

3.6 Where pricelist-based and other non-index based CPA requests are investigated and found to be not reasonable and market related, the CCT reserves the right to reject such requests. Where disputes arise with respect to such rejected requests the CCT reserves the right to procure the Goods from other available Suppliers until such time as the dispute is resolved.

3.7 Unless indicated otherwise in the relevant schedule below, all Purchase Orders issued on or after the effective date of the adjustment shall be issued at, and the Goods or Services supplied, invoiced and paid for at the adjusted prices. The relevant adjustment will not be applied to Purchase Orders issued prior to the effective date.

**F.1 (A) – FIRM PRICES**

**No Contract Price Adjustment is applicable or permitted for this contract. The prices are fixed and firm.**

<b>ITEM</b>	<b>WORK SCOPE</b>	<b>UNIT</b>	<b>CPA Option</b>
1.1	Preliminaries and Generals for site visits for a lengthy repair session. (Applicable to all sites)	session	Only Firm Pricing
1.2	Costs of compliance with Safety Specification for each site repair session	session	Only Firm Pricing
2.1	Cleaning the rotor	Rotor	Only Firm Pricing
2.2	Test and repair loose support blocks of winding overhang.	Per Block	Only Firm Pricing
2.3	Test for loose slot wedges and replace as required.	Per slot	Only Firm Pricing
2.4	Electrical test of rotor which shall include meggar insulation test	Rotor	Only Firm Pricing
2.5	Contract Hourly Rate for a Liquid Resistance Starter Specialist Engineer	Per Hour	Only Firm Pricing
2.6	Contract hourly rate for a Liquid Resistance Starter Specialist technician	Per Hour	Only Firm Pricing
2.7	Contract hourly rate for a skilled worker	Per Hour	Only Firm Pricing
2.8	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
2.9	Unspecified spare parts for the purpose of repairs to Liquid Resistance Start System. See specification 22 - Liquid Resistance Starters	Per Repair	Only Firm Pricing
3.1	Clean and inspect the rotor poles, "Y" winding support clamps, damper windings and connections, field connections and support studs for defects and repair as required.	Per Pole	Only Firm Pricing
3.2	Repair to rotor pole (optional item where pole is removed from the rotor) salient pole laminations requiring additional packing and lamination weld repairs (usually conducted on site).	1 Pole	Only Firm Pricing
3.3	Rewind and rebuild of salient rotor pole to become a "universal pole" (see 3.0 for detail) (Optional item if required to be performed in the Contractors works).	1 Pole	Only Firm Pricing
3.4	Rewind and rebuild of salient rotor poles of a complete unit to become a "universal pole" (see 3.0 for detail) (Optional item if required to be performed in the Contractors works). Pricing is to include insurance as per specification 11.9	1 Pole	Only Firm Pricing
3.5	Transport of single rotor pole from Steenbras power station to Contractor's works and return to Steenbras power station for rotor pole (including crating but excluding insurance)(Optional item if 3.4 and 3.5 is required) Transportation insurance to be included as per Specification 11.9	Per return delivery of single pole	Only Firm Pricing
3.6	Salient Rotor Pole Insulation Kit – required to successfully insulate a single complete Salient Rotor Pole	Each	Only Firm Pricing
3.7	<u>Crack propagation</u> : Including preparation and delivery of report detailing:		Only Firm Pricing

	<p>1. 3D-analysis of the pole fixation for both standard and modified (re-shaped) contour of the slots in the rim as well as the hammerhead of the poles.</p> <p>2. Calculation of crack propagation and critical crack depth.</p>	Per Rotor Assembly (Complete)	Only Firm Pricing
			Only Firm Pricing
3.8	NDT Inspection of Pole to Rotor fixation points. Including preparation and delivery of report detailing findings and recommendations.	Per Hour	Only Firm Pricing
3.9	Machining (re-shaped) contours of the slots in the rotor rim. Including subsequent NDT inspection and preparation and delivery of report detailing findings and recommendations.	Per Unit (10 Pole Slot Pairs)	Only Firm Pricing
3.10	Machining (re-shaped) contours of the hammerhead fixing of the poles. Including subsequent NDT inspection and preparation and delivery of report detailing findings and recommendations.	Per Pole	Only Firm Pricing
3.11	Machining (re-shaped) contours of the hammerhead fixing of the poles. Including subsequent NDT inspection and preparation and delivery of report detailing findings and recommendations.	Per Unit (10 Poles)	Only Firm Pricing
3.12	Dissipation Factor / Tan Delta Tests <b>to include report as per specification</b>	Per Hour	Only Firm Pricing
4.1	Test for loose winding overhang support blocks and repair.	Each	Only Firm Pricing
4.2	Test for loose stator slot wedges and replace as required.	Per Slot	Only Firm Pricing
4.3	Electrical test of stator windings (Polarisation index) as per Section 19.4.2 "Tests at Site".	Per Stator	Only Firm Pricing
5.1	Electrical test of stator windings (Polarisation index) per Section 19.4.2 "Tests at Site".	Per Stator	Only Firm Pricing
5.2	Inspect and test stator core clamping bolts for tightness and insulation in satisfactory condition.	Per Stator	Only Firm Pricing
5.3	Test for loose stator slot wedges and replace as required.	Per slot	Only Firm Pricing
5.4	Repair of affected Corona areas (price per each affected area)	Per Square Meter	Only Firm Pricing
5.5	Inspect surge support ring for tightness / re secure, inclusive of all materials	Per ring	Only Firm Pricing
5.6	Supply of overhang support blocks (if not available on free issue)	Per 10	Only Firm Pricing
5.7	Supply of slot wedges (if not available on free issue)	Per whole row	Only Firm Pricing
5.8	Insulating materials and paint (if not available on free issue)	kg	Only Firm Pricing
5.9	Corona shield and Grading Paints (if not available on free issue)	kg	Only Firm Pricing
5.10	Rotor pole fixing wedges. (Set of eight.)	Per Set	Only Firm Pricing
5.11	Drying of stator winding insulation to obtain required polarization index. Shall include: Provision of minimum of 900Amp current source. On site 24 hour supervision of drying process. Connection or removal of drying equipment and reinstatement of winding connections. One Polarisation Index test to be carried out per 24 hour period (day). (optional item only if required)	Stator per seven continuous days	Only Firm Pricing

5.12	Removal and re-fitting of stator winding coil (per top bar), including all slot wedges, insulation material, coil overhang bonding, blocking, tape, resins semi conductive varnishes and slot packing, TVA testing of replacement bar on trestles, as installed and for entire winding for all three phases on completion of replacement.	Per top bar	Only Firm Pricing
5.13	Removal and re-fitting of stator winding coil (per bottom bar), including all slot wedges, insulation material, coil overhang bonding, blocking, tape, resins semi conductive varnishes and slot packing, TVA testing of replacement bar on trestles, installed and for entire winding for all three phases on completion of replacement.	Per bottom bar	Only Firm Pricing
6.1	Dry ice cleaning of stator and rotor windings (optional item only if required)	Per Machine	Only Firm Pricing
7.1	Contract hourly rate for a Brush Gear Specialist Engineer	Per Hour	Only Firm Pricing
7.2	Contract hourly rate for a Brush Gear Specialist Technician	Per Hour	Only Firm Pricing
7.3	Contract hourly rate for a Brush Gear Specialist Artisan	Per Hour	Only Firm Pricing
7.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
7.5	Spare Brush for Generator. See specification 23	Each	Only Firm Pricing
7.6	Spare Brush Holder for Generator. See specification 23	Each	Only Firm Pricing
7.9	Unspecified spare parts for the purpose of repairs to Generator Stator System and linked plant.	Per Repair	Only Firm Pricing
8.1	Vibration analysis for large rotating machinery including report.	Per Hour	Only Firm Pricing
8.2	Balancing of vertical shaft	Per Hour	Only Firm Pricing
8.3	Vibration Analysis for small ancillary rotating machinery including report with metrics and recommendations	Per Hour	Only Firm Pricing
8.4	Unspecified spare parts for the purpose of repairs to Vibration measurement systems and linked plant. See specification 1.3.1.8	Per Repair	Only Firm Pricing
9.1	Contract hourly rate for an Excitation Specialist engineer	Per Hour	Only Firm Pricing
9.2	Contract hourly rate for an Excitation Specialist technician	Per Hour	Only Firm Pricing
9.3	Contract hourly rate for an Excitation Specialist Artisan	Per Hour	Only Firm Pricing
9.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
9.5	Unspecified spare parts for the purpose of repairs to Excitation Systems and linked plant. See specification 24 - Excitation System	Per Repair	Only Firm Pricing
10.1	Contract hourly rate for an engineer	Per Hour	Only Firm Pricing
10.2	Contract hourly rate for a technician	Per Hour	Only Firm Pricing
10.3	Contract hourly rate for a supervisor	Per Hour	Only Firm Pricing
10.4	Contract hourly rate for a senior winder	Per Hour	Only Firm Pricing
10.5	Contract hourly rate for a skilled worker	Per Hour	Only Firm Pricing
10.6	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
10.7	Contract hourly rate for a un-skilled worker	Per Hour	Only Firm Pricing
10.8	Contract hourly rate for an Artisan	Per Hour	Only Firm Pricing

11.1	OEM Services Generation Sites Plant (See specification 5.1.5)	Per Occurrence	Only Firm Pricing
11.2	OEM Parts Generation Sites Plant (See specification 5.1.5)	Per Occurrence	Only Firm Pricing
11.3	Unspecified Adhoc Parts / Materials Required for Repairs to Generation Site Plant (See Specification 5.1.4)	Per Occurrence	Only Firm Pricing
11.4	Unspecified Adhoc Services Required for Repairs to Generation Site Plant (See Specification 5.1.4)	Per Occurrence	Only Firm Pricing
11.5	Economy class airfares return trip per site to be provided at cost plus tendered administrative charge.	Per Occurrence	Only Firm Pricing
	Proof to be submitted with all claims.		Only Firm Pricing
11.6	All car hire costs for site staff commute to site from accommodation incorporating kilometres required to be provided at cost plus tendered administrative charge. (Class Economy Vehicle )	Per vehicle	Only Firm Pricing
11.7	Accommodation & Meals for B&B in area as close as possible to the respective sites.	Per Day for 1 person	Only Firm Pricing
11.8	Travelling by Motor Vehicle – Class 1 as defined by AA	Per KM	Only Firm Pricing
11.9	Travelling by Motor Vehicle – Class 2 as defined by AA	Per KM	Only Firm Pricing
11.10	Travelling by Motor Vehicle – Class 3 as defined by AA	Per KM	Only Firm Pricing
11.11	Travelling by Motor Vehicle – Class 4 as defined by AA	Per KM	Only Firm Pricing
12.1	Refitting of Coil Retaining Rings (CRR) on site with rotor in situ	Per Side	Only Firm Pricing
12.2	Removal of CRRs on site with rotor in situ.	Per Side	Only Firm Pricing
12.3	Provision for the fitting of damper windings and overhang insulation during the refitting of CRR's.	Per Side	Only Firm Pricing
12.4	Fluorescent dye penetration NDT with assessment report.	Per Hour	Only Firm Pricing
12.5	Electrical test of the rotor required after refitting of CRR's which shall include RSG and Megger test (Insulation test) to 500 V.	Per Side	Only Firm Pricing
12.6	Replication of selected critical test area up to 20 test area per CRR with assessment report.	Per Side	Only Firm Pricing
13.1	Inspection including		Only Firm Pricing
	· Removal of all overhang blocking	Only Firm Pricing	
	· Cleaning of overhang blocking	Only Firm Pricing	
	· Dry cleaning of rotor overhang windings	Only Firm Pricing	
	· Clean stator overhang windings	Only Firm Pricing	
	· Inspect and test for loose overhang support blocks	Only Firm Pricing	
	· Inspect surge support rings for tightness	Only Firm Pricing	
· Visual Inspection	Only Firm Pricing		
13.2	Polarisation Index electrical test stator windings	Per GT	Only Firm Pricing
13.3	Repair any accessible inter turn shorts on overhang areas	Per Occurrence	Only Firm Pricing
13.4	Electrical test of the rotor required a which shall include RSG and Insulation Resistance tests	Per Occurrence	Only Firm Pricing
13.5	Dissipation Factor / Tan Delta Tests	Per Hour	Only Firm Pricing

13.6	Supply and prepare replacement overhang insulation	Per Occurrence	Only Firm Pricing
13.7	Supply and fit inter-turn insulation materials as required	Per Occurrence	Only Firm Pricing
14.1	Inspection Including: · Clean all accessible stator core areas · Inspect stator core laminations at stator ends. · Inspect and test for loose stator wedges at accessible slot ends · Inspect stator core laminations at stator ends.	Per GT	Only Firm Pricing
			Only Firm Pricing
			Only Firm Pricing
			Only Firm Pricing
			Only Firm Pricing
14.2	Vibration Analysis for large rotating machinery	Per Hour	Only Firm Pricing
14.3	Vibration Analysis for small ancillary rotating machinery including report with metrics and recommendations	Per Hour	Only Firm Pricing
14.4	Unspecified spare parts for the purpose of repairs to Vibration measurement systems and linked plant. See specification 1.3.1.8	Per Repair	Only Firm Pricing
14.5	Balancing of shaft	Per Hour	Only Firm Pricing
			Only Firm Pricing
15.1	Contract hourly rate for a DC Specialist engineer	Per Hour	Only Firm Pricing
15.2	Contract hourly rate for a DC Specialist technician	Per Hour	Only Firm Pricing
15.3	Contract hourly rate for a DC Specialist Artisan	Per Hour	Only Firm Pricing
15.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
15.5	Unspecified spare parts for the purpose of repairs to DC systems and linked plant. See specification 25 - DC Works	Per Unit	Only Firm Pricing
15.6	AGT 220V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.7	AGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.8	RGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.9	SPS 24V Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.10	SPS 50V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.11	SPS 110V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.12	SPS 110V Main Bank Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE

15.13	SPS 110V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.14	SPS 24V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
16.1	Contract hourly rate for a Protection Specialist engineer	Per Hour	Only Firm Pricing
16.2	Contract hourly rate for a Protection Specialist technician	Per Hour	Only Firm Pricing
16.3	Contract hourly rate for a Protection Specialist Artisan	Per Hour	Only Firm Pricing
16.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
16.5	Provision for Equipment Hire for the purposes of testing protection Systems	Per Hour	Only Firm Pricing
16.6	Unspecified spare parts for the purpose of repairs to protection systems and linked plant. See specification 26 - Protection Systems	Per Repair	Only Firm Pricing
16.7	ABB REM 543 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE
16.8	ABB RET 670 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE
17.1	Contract hourly rate for a PLC Specialist engineer	Per Hour	Only Firm Pricing
17.2	Contract hourly rate for a PLC Specialist technician	Per Hour	Only Firm Pricing
17.3	Contract hourly rate for a PLC Specialist Artisan	Per Hour	Only Firm Pricing
17.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
17.5	Unspecified spare parts for the purpose of repairs to Unspecified Parts relating to protection systems and linked plant. See specification 27 - PLC Systems	Per Repair	Only Firm Pricing
18.1	Contract hourly rate for a SCADA Specialist engineer	Per Hour	Only Firm Pricing
18.2	Contract hourly rate for a SCADA Specialist technician	Per Hour	Only Firm Pricing
18.3	Contract hourly rate for a SCADA Specialist Artisan	Per Hour	Only Firm Pricing
18.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
18.5	Unspecified spare parts for the purpose of repairs to SCADA, Omniflex and linked plant. See specification 28 - SCADA Systems	Per Unit	Only Firm Pricing
19.1	Contract hourly rate for a Motor Repair Specialist engineer	Per Hour	Only Firm Pricing
19.2	Contract hourly rate for a Motor Repair Specialist technician	Per Hour	Only Firm Pricing
19.3	Contract hourly rate for a Motor Repair Specialist Artisan	Per Hour	Only Firm Pricing
19.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
19.5	Contract hourly rate for Senior Winder	Per Hour	Only Firm Pricing
19.6	Provision for materials for the purpose of rewinding a motor or other repairs.	Per Repair	Only Firm Pricing

19.7	Unspecified spare parts for the purpose of repairs to motor repairs and replacements as well as repairs to related systems. See specification 29 - Motors	Per Repair	Only Firm Pricing
20.1	Allowance for crating of various goods	Per Unit	Only Firm Pricing
21.1	Contract hourly rate for a precision and metrology Specialist engineer	Per Hour	Only Firm Pricing
21.2	Contract hourly rate for a precision and metrology Specialist technician	Per Hour	Only Firm Pricing
21.3	Contract hourly rate for a precision and metrology Specialist Artisan	Per Hour	Only Firm Pricing
21.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
21.5	Unspecified spare parts for the purpose of repairs to metrology components as well as repairs to related systems. See specification 31 - Precision and Metrology	Per Unit	Only Firm Pricing
22.1	Contract hourly rate for a Hydraulic Specialist engineer	Per Hour	Only Firm Pricing
22.2	Contract hourly rate for a Hydraulic Specialist technician	Per Hour	Only Firm Pricing
22.3	Contract hourly rate for a Hydraulic Specialist Artisan	Per Hour	Only Firm Pricing
22.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing
22.5	Unspecified spare parts for the purpose of repairs to Hydraulic components as well as repairs to related systems. See specification 32 - Hydraulics	Per Unit	Only Firm Pricing
23.1	Contract hourly rate for a Manufacturing / Fabrication Specialist engineer	Per Hour	Only Firm Pricing
23.2	Contract hourly rate for a Manufacturing / Fabrication Specialist technician	Per Hour	Only Firm Pricing
23.3	Contract hourly rate for a Manufacturing / Fabrication Specialist Artisan	Per Hour	Only Firm Pricing
23.4	Contract hourly rate for a Manufacturing / Fabrication skilled labour	Per Hour	Only Firm Pricing
23.5	Contract hourly rate for a Manufacturing / Fabrication coded welder	Per Hour	Only Firm Pricing
23.6	Unspecified spare parts and materials required and relating to Manufacturing / Fabrication activities. See Specification 33 - Manufacturing / Fabrication	Per Unit	Only Firm Pricing
24.1	Contract hourly rate for a High Speed Turbine Specialist engineer	Per Hour	Only Firm Pricing
24.2	Contract hourly rate for a High Speed Turbine Specialist technician	Per Hour	Only Firm Pricing
24.3	Contract hourly rate for a High Speed Turbine Specialist Artisan	Per Hour	Only Firm Pricing
24.4	Contract hourly rate for a High Speed Turbine skilled labour	Per Hour	Only Firm Pricing
24.5	Unspecified spare parts for the purpose of repairs to High Speed Turbines as well as repairs to related systems. See specification 34 - High Speed Turbine Specialists	Per Unit	Only Firm Pricing
25.1	Contract hourly rate for a Solar Specialist engineer	Per Hour	Only Firm Pricing
25.2	Contract hourly rate for a Solar Specialist technician	Per Hour	Only Firm Pricing
25.3	Contract hourly rate for a Solar Specialist Artisan	Per Hour	Only Firm Pricing
25.4	Contract hourly rate for a semi-skilled worker	Per Hour	Only Firm Pricing

25.5	Unspecified spare parts for the purpose of repairs to Solar Systems as well as repairs to related systems. See specification 35 - Solar System Specialists	Per Unit	Only Firm Pricing
26.1	Thermography Inspection by a CAT 2 certified individual. Hour rates will also be used to include detailed report which is to be delivered by soft copy . This will be applicable for all Generation Sites. See specification vii - Thermography Inspections	Per Hour	Only Firm Pricing

**F.1 (B) LOCAL SOUTH AFRICAN CONTENT – SEIFSA INDICES**

*NOT APPLICABLE*

**F.1 (C) LOCAL SOUTH AFRICAN CONTENT - SUPPLIER/ MANUFACTURER PRICE LIST/QUOTATIONS**

1. Tenderers /Suppliers that are not the manufacturer or original supplier of the tendered goods and whose tender prices are based on the price list/quotation of another company (manufacturer or other supplier) may apply Supplier / Manufacturer Pricelist / Quotation based CPA.
2. In such cases the Tenderer is required to submit with his tender a copy of the original Supplier / Manufacturer Pricelist / Quotation upon which his tender prices are based. Such pricelist / Quotation is required to be on the Letterhead of the Supplier / Manufacture, is to be dated, referenced and signed, and is to provide clear reference to the tender number and is required to clearly reference each item quoted to the respective Tender Item Number indicated in C.4 Price Schedule.
3. The tenderer shall further confirm the Manufacturer / supplier, Quotation date and reference number and applicable tender Items by completing Table F.1(C).1 below.

**Table F.1(C).1: Price Schedule information for Manufacturers/Suppliers Price List(s)/Quotation**

Manufacturer/ Supplier Name	Price List Information		
	Price List/Quotation Date.	Price List/Quotation Reference Number	Pricelist applicable to Items as per C.4 Price Schedule

4. During the contract period, the Tenderer (now Supplier) must submit the request for price adjustment based on increases in pricelists of manufacturers/suppliers prior to the effective date of the increase in the pricelist.
5. The effective date of any price adjustment granted will be the first day of the month following the month during which the fully substantiated application for contract price adjustment is submitted or, by agreement between the Tenderer/Supplier and the CCT, a subsequent date on which the price adjustment will become effective.
6. In instances where the Supplier's price adjustment claimed is less than entitled, the lesser price will be accepted.
7. Purchase orders placed prior to the effective date of any price increase shall be placed at the previously agreed price, not the claimed adjusted price.
8. Only the difference in source supplier / manufacturer pricelist (actual cost, not percentage) may be adjusted and under no circumstances may the Tenderer/Supplier increase their profit margin.
9. The Tenderer/Supplier shall, when submitting claims for contract price adjustment, submit all of the documentation indicated below a minimum of two weeks prior to the effective date of the contract price adjustment:
  - a) Copies of price lists upon which original tender prices were based (refer to clause 2, Table F.1(C).1 above) clearly indicating the item(s) according to C.4 Price Schedule.
  - b) The new price list (*from the same Supplier / Manufacturer as originally tendered*) on the relevant manufacturer/suppliers letterhead (with pamphlets, brochures and e-mail communication) clearly

indicating the item(s) according to C.4 Price Schedule.

- c) Detailed calculations indicating how the “adjusted” price was calculated. The calculations must be submitted in Excel, together with a signed, “PDF” version of the Excel spreadsheet. The example below – Table F.1(C).2, is what is required.
  - d) A covering letter on the Supplier’s letterhead requesting the CPA with the effective date of the claim.
10. The CCT will consider the request and either refer the request back for correction or additional information or approve the request.
  11. The CCT will assess such pricelist based CPA claims against market pricing and indices and other input pricing indicators and will only approve such claims that are confirmed to be reasonable and market related with reference to the source pricing information provided with the tender and with the CPA application
  12. Approval of the CPA request including confirmation of the effective date, will be communicated to the Supplier in writing together with a list of the approved adjusted rates. The effective date will be as per clause 3 above.
  13. The successful Tenderer/Supplier shall immediately upon notification of the commencement date of contract submit written application for approval of any adjusted unit prices for the Goods that may have been notified by the Supplier / Manufacturer of the Goods, together with the required supporting documentation. This application will be assessed in accordance with the process laid out above in order to determine approved contract prices at the commencement of the contract.
  14. Failure to submit such application within two working weeks of commencement of contract shall result in the tendered unit prices being applied for initial orders placed following commencement of the contract.
  15. In the event of a Supplier changing their Supplier / Manufacturer during the tenure of the contract, no request for price variations will be considered unless the Supplier has obtained prior approval from the City for the change of Supplier / Manufacturer. Such approval shall include technical approval by the Engineer of the goods supplied by the replacement Supplier / Manufacturer. Technical approval by the Engineer shall be a prerequisite for any change of Supplier / Manufacturer.

**Table F.1(C).2 – Pro Forma Table for Adjustments in price where the Supplier is not the Manufacturer)**

C.4 Price Schedule Item No.	Original Tender Price	Previous and New Price List Information					New Contract Price (Excl. VAT)
		Manufacturer/Supplier	Material no.	Price as per previous Manufacturer/Supplier Price List (Excl. Vat) Price List Date:_____	Price as per new Supplier/Manufacturer Price List (Excl. Vat) Price List Date:_____	Difference between the previous and new manufacturer Price list (C)-(B)	
	(A)			(B)	(C)	(D)	(A)+(D)

*\*When submitting the first request for price adjustment, use the tender price as per C.4 Price Schedule.*

## Pricing Items eligible for possible Supplier Price List Contract Price Adjustment

ITEM	WORK SCOPE	UNIT	CPA Option
15.6	AGT 220V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.7	AGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.8	RGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.9	SPS 24V Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.10	SPS 50V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.11	SPS 110V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.12	SPS 110V Main Bank Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.13	SPS 110V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.14	SPS 24V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
16.7	ABB REM 543 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE
16.8	ABB RET 670 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE

**F.1 (D) LOCAL SOUTH AFRICAN CONTENT - STATS SA CONSUMER PRICE INDEX**

***NOT APPLICABLE***

**F.1. (E) LOCAL SOUTH AFRICAN CONTENT – SECTORIAL DETERMINATION**

***NOT APPLICABLE***

**F.1. (F) GOODS AND/OR COMPONENTS IMPORTED FROM OUTSIDE OF SOUTH AFRICA  
RATE OF EXCHANGE PRICE VARIATIONS**

1. Subject to the above, when tendered prices of certain items in C.4 Price Schedule are subject to adjustment for changes in the cost of goods and/or components imported from outside of South Africa, the Tenderer must (as part of the bid submission) provide a list of such items and other information as required in Table F.1 (F).2 below and include it in the bid submission.
2. Only tenderers who are the direct importer of the goods may claim rate of exchange price variations.

**Table F.1 (F).1: Information required for prices subject to Rate of Exchange adjustments**

Exchange Rate on which tender is based:	_____ 1 : Rand _____
Exchange Rate on which tender is based: (if more than one currency)	_____ 1 : Rand _____
Exchange Rate on which tender is based: (if more than one currency)	_____ 1 : Rand _____
Name of Bank	
Date of quoted rate of exchange	
Documentation relevant to calculation of adjustments based on Rate of Exchange (Mark with "x")	
Bill of Lading	
Waybill	
Customs invoice	
Other: _____	

**TABLE F.1 (F).2: Price Basis for Imported Resources**

C.4 Price Schedule Detail		Rand Value Calculation for Foreign Content (FOB)			Customs Surcharge		Customs Duty			Rand Value for South African Content (FOR)	Total Tender Price in Rand of (C) + (D) + (E) + (F) included in Price Schedule C.4
C.4 Price Schedule Item No.	Description of Resources	Value in Foreign Currency denomination	Rate of Exchange as at Base Date*	Value in Rand for Foreign currency content (A) x (B)	%	Rand	%	Rand	Customs Duty Tariff Reference	Value in Rand for South African Content	(G)
		(A)	(B)	(C)		(D)		(E)		(F)	

\* Base Date: 7 (seven) calendar days before tender closing.

3. Any items/resources not inserted in Table F.1 (F).2 above, are deemed to be manufactured / supplied in South Africa and is not subject to adjustment in terms of variation in rate of exchange.
4. The price adjustment for variations in the cost of plant and materials imported from outside of South Africa shall be based on the information contained on the schedule titled "Price Basis for Imported Resources" (Table F.1 (F).2). The Rand value of goods and components comprising entirely or partly imported content that is inserted on the Table F.1(F).2 titled "Price Basis for Imported Resources" (column (G)) shall be the

rate tendered in the Pricing Schedule C.4, and shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate 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)) and any South African manufactured or added content (column (F)). Any mark-up by the Tenderer or other costs not detailed above shall be entirely contained within the South African Content (Column (F)).

5. Column A of Table F.1 (F).2 shall detail the actual quotation for the imported Goods or components, and shall be substantiated by the original source quotation for such Goods or components. (Source quotation from foreign supplier/manufacturer, see Schedule F.1 (G), Table F.1 (G).1 below). No Supplier mark-up on the foreign currency value of such imported Goods or components is permissible. All Supplier mark-up shall be included in the South African content, Column F of Table F.1 (F).2 above.
6. Based on the evidence provided in Clause 5 above, the value in Rand inserted in column (C) 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 Clause 7 below.
7. The adjustments shall be calculated upon the value in foreign currency in the Supplier'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 (or any adjusted value approved in accordance with Schedule F.1 (G) below).
8. 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.
9. 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.
10. Suppliers shall take out Forward Cover covering the foreign exchange component of the cost of any imported portion of the Goods ordered on each purchase order issued by the Employer.
11. The process to be followed by Suppliers for claims for Rate of Exchange Variations shall be as follows:
  - a) The Supplier shall within seven working days from the date of receipt of the purchase order arrange for cover or recovering 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 goods and components inserted by the Tenderer on the scheduled titled "Price Basis for Imported Resources" (Table F.1 (F).2), and submit such Forward Cover quotation to the City for approval.
  - b) Upon receipt of the quotation for Forward Cover from the bank, the Supplier must forward the quote ideally, within 15 minutes of receiving it from their banker to the CCT:  
[CPA.Request@capetown.gov.za](mailto:CPA.Request@capetown.gov.za) and Contract Manager:  
**brentjohn.vanderberg@capetown.gov.za** This is to ensure that the time difference from generation of the quotation for Forward Cover to finalising the Forward Cover with the Bank, is kept to a minimum due to the change in the exchange rate throughout the day.
  - c) The Contract Manager will forward the quotation to the CCT Treasury Department immediately for their consideration and approval. The cut-off time for receipt of quotations for Forward Cover will be 14h00. It must be noted that if this deadline will not be achieved, it is recommended that the quotation process be undertaken on the following day which should fall within the 7 days of receipt of the purchase order.
  - d) Only once the Forward Cover quotation rate has been approved by CCT Treasury Department, may the Supplier finalise the Forward Cover contract with their bank at the rate approved by the CCT Treasury Department for that Purchase Order and forward a copy of the contract to the CCT via email: [CPA.Request@capetown.gov.za](mailto:CPA.Request@capetown.gov.za) and Contract Manager:[brentjohn.vanderberg@capetown.gov.za](mailto:brentjohn.vanderberg@capetown.gov.za)
  - e) The Forward Cover quotation envisaged above shall have the CCT purchase order number and a Forward Cover Contract (FCC) Value Date that is directly based upon the required delivery date for

the imported Goods or components necessary in order to meet the Contract Delivery Period. Future FCC Value Dates beyond the Contract Delivery Period shall not be acceptable.

12. On delivery of the goods to the City the Supplier shall submit the following documentation to the CCT via email: [CPA.Request@capetown.gov.za](mailto:CPA.Request@capetown.gov.za) and Contract Manager: **brentjohn.vanderberg@capetown.gov.za**
- a) The Bill of Lading/Waybill/Customs Invoice (clearly indicating the items as identified on the purchase order).
  - b) Calculations detailing the difference in the rate of exchange at the time of entry and the date of tender. These shall be submitted on a covering letter.
  - c) The invoice / credit note for the Rate of Exchange adjustment applicable to the specific order.
13. In exceptional circumstances, and subject to the Employer's explicit approval, Rate of Exchange variations on Goods or components that are imported in bulk in advance in fulfilment of the contract requirements or to create buffer stocks, but not specifically in response to specific purchase orders placed by the Employer in accordance with the contract, shall be based upon whichever of the following two methodologies is more advantageous to the Employer:
- a) Methodology 1: A spot quotation for the Forward Cover Contract rate for the imported portion of the Goods, based upon the FCC Value Date for the particular purchase order(s), as outlined in clause 11 above.
  - b) Methodology 2: The actual Rate of Exchange cost variations incurred in fulfilment of the purchase order(s), fully substantiated by detailed Bills of Lading and Customs Invoice applicable to the particular Goods delivered. The applicable Rate of Exchange shall be the rate as defined on the Customs Invoice for the imported Goods.
  - c) Determination of the more advantageous methodology shall be conducted and approved following delivery of the imported Goods or components to the Supplier but prior to delivery of the Goods to the Employer.
14. Approval of the process detailed in Clause 13 and sub-clauses above shall be on an order by order basis and application shall be submitted, with required supporting documents, immediately on receipt of the relevant purchase order(s).

## Pricing Items eligible for possible Rate of Exchange Variation

ITEM	WORK SCOPE	UNIT	CPA Option
15.6	AGT 220V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.7	AGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.8	RGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.9	SPS 24V Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.10	SPS 50V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.11	SPS 110V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.12	SPS 110V Main Bank Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.13	SPS 110V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.14	SPS 24V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
16.7	ABB REM 543 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE
16.8	ABB RET 670 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE

**F.1. (G) GOODS AND/OR COMPONENTS IMPORTED FROM OUTSIDE OF SOUTH AFRICA -  
MANUFACTURER/SUPPLIER PRICE/QUOTATION LIST**

**1. Manufacturer’s / Supplier’s Pricelist / Quotation Based CPA – Imported Goods or Components:**

- 1.1 Tenderers with imported Goods or Components may claim contract price adjustment based on the overseas SUPPLIER’S / MANUFACTURER’S PRICE LISTS/ QUOTATION from the supplier or manufacturer of the tendered items.
- 1.2 In such cases the Tenderer is required to submit with his tender a copy of the original overseas Supplier / Manufacturer Pricelist / Quotation upon which his tender prices are based. Such pricelist / Quotation is required to be on the Letterhead of the Supplier / Manufacture, is to be dated, referenced and signed, and is to provide clear reference to the tender number or unambiguously indicate the relevant component.
- 1.3 The Tenderer is required to clearly reference each item quoted to the respective Tender Item Number indicated in C.4 Price Schedule by completing Table F.1 (G).1 below.

**Table F.1 (G).1: Price Schedule information for Imported Goods or Components - Manufacturers/Suppliers Price List(s)/Quotation**

Manufacturer/ Supplier Name	Price List Information		
	Price List/Quotation Date.	Price List/Quotation Reference Number	Pricelist applicable to Items as per C.4 Price Schedule

- 1.4 During the contract period, the Tenderer (now Supplier) must submit the request for price adjustment based on increases in pricelists of manufacturers/suppliers prior to the effective date of the increase in the pricelist.
- 1.5 The effective date of any price adjustment granted will be the first day of the month following the month during which the fully substantiated application for contract price adjustment is submitted or, by agreement between the Tenderer/Supplier and the CCT, a subsequent date on which the price adjustment will become effective.
- 1.6 In instances where the Supplier’s price adjustment claimed is less than entitled, the lesser price will be accepted.
- 1.7 Only the difference in source supplier / manufacturer pricelist (actual cost, not percentage) may be adjusted and under no circumstances may the Tenderer/Supplier increase their profit margin.
- 1.8 The Tenderer/Supplier shall, when submitting claims for contract price adjustment, submit all of the documentation indicated below a minimum of two weeks prior to the effective date of the contract price adjustment:

- a) Copies of price lists upon which original tender prices were based (refer to Clause 1.2, Table F.1 (G).1 above) clearly indicating the item(s) according to C.4 Price Schedule.
  - b) The new price list (*from the same Supplier / Manufacturer as originally tendered*) on the relevant manufacturer/suppliers letterhead (with pamphlets, brochures and e-mail communication) clearly indicating the item(s) according to C.4 Price Schedule.
  - c) Submit detailed calculations indicating how the “new” price is calculated. The calculations must be submitted in Excel, together with a signed, “PDF” version of the Excel spreadsheet. The example below – Table F.1(G).2, is what is required.
  - d) A covering letter on the Supplier’s letterhead requesting the CPA with the effective date of the claim.
- 1.9 The CCT will consider the request and either refer the request back for correction or additional information or approve the request.
- 1.10 The CCT will assess such pricelist based CPA claims and will only approve such claims that are confirmed to be reasonable and market related with reference to the source pricing information provided with the tender and with the CPA application
- 1.11 Approval of the CPA request including confirmation of the effective date, will be communicated to the Supplier in writing. The effective date will be as per clause 1.3 above.
- 1.12 The successful Tenderer/Supplier shall immediately upon notification of the commencement date of contract submit written application for approval of any adjusted unit prices for the Goods that may have been notified by the Supplier / Manufacturer of the Goods, together with the required supporting documentation. This application will be assessed in accordance with the process laid out above in order to determine approved contract prices at the commencement of the contract.
- 1.13 Failure to submit such application within two working weeks of commencement of contract shall result in the tendered unit prices being applied for initial orders placed following commencement of the contract.
- 1.14 In the event of a Supplier changing their Supplier / Manufacturer during the tenure of the contract, no request for price variations will be considered unless the Supplier has obtained prior approval from the City for the change of Supplier / Manufacturer. Such approval shall include technical approval by the Engineer of the goods supplied by the replacement Supplier / Manufacturer. Technical approval by the Engineer shall be a prerequisite for any change of Supplier / Manufacturer.

**Table F.1(G).2 – Pro Forma Table for Adjustments in price for Imported Goods or Components - Manufacturers/Suppliers Price List(s)/Quotation**

C.4 Price Schedule Item No.	Original Tender Price	Previous and New Price List Information					New Contract Price (Excl. VAT)
		Manufacturer/Supplier	Material no.	Price as per previous Manufacturer/Supplier Price List (Excl. Vat) Price List Date: _____	Price as per new Supplier/Manufacturer Price List (Excl. Vat) Price List Date: _____	Difference between the previous and new manufacturer Price list (C)-(B)	
	(A)			(B)	(C)	(D)	(A)+(D)

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OR

**2. Supplier Price List Variations for Suppliers Supplying Goods Imported by Another Party**

- 2.1 The Tenderers (now Supplier) that are not the director importer of the manufactured goods/components, and intend to purchase the goods from another supplier who in turn is importing the goods, may apply for Supplier / Manufacturer Pricelist / Quotation based CPA imported by a another Party.
- 2.2 In such cases the Tenderer is required to submit with his tender a copy of the original Supplier / Manufacturer Pricelist / Quotation upon which his tender prices are based. Such pricelist / Quotation is required to be on the Letterhead of the Supplier / Manufacturer, is to be dated, referenced and signed, and is to provide clear reference to the tender number, exchange rate on which the quote is based and is required to clearly reference each item quoted to the respective Tender Item Number indicated in C.4 Price Schedule.
- 2.3 The tenderer shall further confirm the Manufacturer / supplier, Quotation date, exchange rate at date of quote and reference number and applicable tender Items by completing Table F.1(G).3 below.

**Table F.1 (G).3: Price Schedule information for Imported Goods or Components, imported by Another Party Manufacturers/Suppliers Price List(s)/Quotation**

Manufacturer/ Supplier Name	Price List Information			Pricelist applicable to Items as per C.4 Price Schedule
	Price List/Quotation Date.	Price List/Quotation Reference Number	Exchange Rate on which quote is based	
			_____ 1 : Rand _____	
			_____ 1 : Rand _____	
			_____ 1 : Rand _____	
			_____ 1 : Rand _____	

- 2.4 During the contract period, the Tenderer (now Supplier) must submit the request for price adjustment based on increases in pricelists of manufacturers/suppliers within seven calendar days of the date of the purchase order date.
- 2.5 The price adjustment claim will be fully substantiated and the approval will be limited to the relevant Purchase Order.
- 2.6 In instances where the Supplier’s price adjustment claimed is less than entitled, the lesser price will be accepted.
- 2.7 Only the difference in source supplier / manufacturer pricelist (actual cost, not percentage) may be adjusted and under no circumstances may the Tenderer/Supplier increase their profit margin.
- 2.8 The Tenderer/Supplier shall, when submitting claims for contract price adjustment, submit all of the documentation indicated below a minimum of seven (7) days from date of purchase order:

- a) Copies of price lists upon which original tender prices were based (refer to Clause 2.2, Table 2 above) clearly indicating the item(s) according to C.4 Price Schedule.
- b) The new price list (*from the same Supplier / Manufacturer as originally tendered*) on the relevant manufacturer/suppliers letterhead (with pamphlets, brochures and e-mail communication) clearly indicating the item(s) according to C.4 Price Schedule.
- c) Submit detailed calculations indicating how the “new” price is calculated.
- d) A covering letter on the Supplier’s letterhead requesting the CPA with the effective date of the claim.

2.9 The CCT will consider the request and either refer the request back for correction or additional information or approve the request.

2.10 The CCT will assess such pricelist based CPA claims and will only approve such claims that are confirmed to be reasonable and market related with reference to the source pricing information provided with the tender and with the CPA application

2.11 Approval of the CPA request for the relevant Purchase Order (refer to clause 2.5 above), will be communicated to the Supplier in writing.

Pricing Items eligible for possible Supplier Price List Contract Price Adjustment

ITEM	WORK SCOPE	UNIT	CPA Option
15.6	AGT 220V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.7	AGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.8	RGT 110V- Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.9	SPS 24V Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.10	SPS 50V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.11	SPS 110V SF6 Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.12	SPS 110V Main Bank Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
15.13	SPS 110V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE

15.14	SPS 24V UCW Charger - Only insert price for year one if intending to use supplier price list / ROE CPA	Each	Firm Pricing / Supplier Price List / ROE
16.7	ABB REM 543 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE
16.8	ABB RET 670 or Equivalent- Only insert price for year one if intending to use supplier price list CPA. See Specification 26.2	Each	Firm Pricing / Supplier Price List / ROE

**F.1. (H) GOODS AND/OR COMPONENTS IMPORTED FROM OUTSIDE OF SOUTH AFRICA - BASED  
ON FOREIGN INDICES**

**Not Applicable**

**Schedule F.2: 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 F.3: 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	
-----	--	----	--

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	
-----	--	----	--

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	
-----	--	----	--

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 CCT of any other remedies available to it.

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

\_\_\_\_\_  
 Date

## Schedule F.4: 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

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

The applicable preference point system for this tender is the 80/20 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
<b>PRICE</b>	
<b>SPECIFIC GOALS</b>	
<b>Total points for Price and SPECIFIC GOALS</b>	<b>100</b>

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.

1.6 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**

**POINTS AWARDED FOR PRICE**

**THE 80/20 PREFERENCE POINT SYSTEMS**

A maximum of 80 points is allocated for price on the following basis:

80/20

Or

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

**4. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT**

Not Applicable

**5. POINTS AWARDED FOR SPECIFIC GOALS**

5.1 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:

5.2 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 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 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 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 the 80/20 preference point system.

**Table 1: Specific Goals (SG) – Points Allocated and Claimed**

Tenderers must indicate the preference points claimed for each specific goal applicable to them, for the purposes of this tender.

The specific goals allocated points in terms of this tender	To be Completed by the Organ of State	To be Completed by the Tenderer
	Number of points Allocated (80/20 system)	Number of points claimed (80/20 system)
Promotion of Micro and Small Enterprises	8	
Enterprise Supplier Development and Socio-Economic Development	6	
Skills Development <u>OR</u> Employee Share Scheme	6	

DECLARATION WITH REGARD TO COMPANY/FIRM

5.3 Name of company/firm.....

5.4 Company registration number: .....

5.5 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]

5.6 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 4.1 and 4.2, the Supplier 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 Supplier, 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.

<i>Signature of Tenderer</i>	<i>Date</i>	<i>Name and Surname</i>	<i>Address</i>

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<b>SIGNATURE OF CCT OFFICIALS AT TENDER OPENING</b>		
1.	2.	3.

**Table 2: Specific Goals – Declaration by the Tenderer**

Tenderers must complete this table to declare the amounts and percentages applicable to the specific goals they are claiming.

NB: In completing Table 2 below, please consult **Notes for Verification** below

The specific goals allocated points in terms of this tender	To be Completed by the Tenderer	
	Refer to “Notes for verification”	Amount Declared (excluding VAT)
<b><u>SG1</u></b> Promotion of Micro and Small Enterprises	(i) Total Turnover	
<b><u>SG2</u></b> Enterprise Supplier Development and Socio Economic Development	(ii) Total Enterprise Supplier Development Expenditure	
	(iii) Total Socio Economic Development Expenditure	
	(iv) Total Expenditure	
<b><u>SG3.1</u></b> Skills Development	(v) Total Skills Development Expenditure	
	(vi) Total Profit	
OR <b><u>SG3.2</u></b> Employee Share Scheme	(vii) Employee Share Scheme Ownership %	

**Tenderer Confirmation:**

I confirm that the amounts declared in Table 2 above are accurate and in accordance with the *‘The Broad-Based Black Economic Empowerment (B-BBEE) Act 53 of 2003, as amended.* .

<b>Signature of Tenderer (Authorised to represent the tenderer)</b>	<b>Date</b>	<b>Name and Surname</b>	<b>Address</b>

**Notes for Verification:**

All amounts disclosed should be as per the most recent Annual Financial Statements (not older than 12 months) and defined as per the B-BBEE Act

- SG1 – Specific Goal 1  
**Promotion of Micro and Small Enterprises**  
 (i) Total Turnover  
 Micro enterprises with a turnover of up to R20million and Small enterprises with a turnover up to R80 million, as per National Small Enterprise Act, 1996 (Act No.102 of 1996)
  
- SG2 – Specific Goal 2  
**Enterprise Supplier Development and Socio-Economic Development**  
 (ii) Total Enterprise Supplier Development Expenditure  
 Qualifying expenditure as defined in the B-BBEE Act: Statement 400 “THE GENERAL PRINCIPLES FOR MEASURING ENTERPRISE AND SUPPLIER DEVELOPMENT”  
  
 (iii) Total Enterprise Socio Economic Development Expenditure  
 Qualifying expenditure as defined in the B-BBEE Act: Statement 500 “THE GENERAL PRINCIPLES FOR MEASURING THE SOCIO - ECONOMIC DEVELOPMENT ELEMENT”  
  
 (iv) Total Expenditure  
 Total Expenditure as per the most recent Annual Financial Statements (not older than 12 months)
  
- SG3.1 – Specific Goal 3  
**Skills Development**  
 (v) Total Skills Development Expenditure  
 Qualifying expenditure as defined in the B-BBEE Act: Statement 300 “THE GENERAL PRINCIPLES FOR MEASURING SKILLS DEVELOPMENT”  
  
 (vi) Total Profit  
 Total Profit as per the most recent Annual Financial Statements (not older than 12 months)
  
- SG3.2 – Specific Goal 3  
**Employee Share Scheme**  
 (vii) Employee Share Scheme Ownership %  
 Total employee ownership as per employee share certificate at the date of tender closing.

The below table (Table 3) must be completed by a B-BBEE Verification Agency (\*Note 1) **OR** Commissioner of Oaths  
 (Refer to \*Note 3.2 for the detailed declaration):

**Table 3:**

<b>Signature and Stamp</b>	<b>Date</b>	<b>Name and Surname</b>	<b>Address</b>

**\*Note 1**

## 1.1 Tendering entity that undergoes B-BBEE verification

- Where a tendering entity undergoes B-BBEE verification, a B-BBEE certificate valid as at the date of tender closing, must be attached to the bid submission or must be made available upon request within the specified period.
- All amounts disclosed in Table 2, should be amounts used in the B-BBEE verification process undergone by the tendering entity
- The B-BBEE verification agency must complete Table 3 above, to confirm the following amounts disclosed by the bidder in Table 2:
  - (ii) Total Enterprise Supplier Development Expenditure;
  - (iii) Total Socio Economic Development Expenditure;
  - (v) Total Skills Development Expenditure
- Where the tendering entity is a Joint Venture/ Consortium, the amounts in Table 2 must be consolidated, with an accompanying consolidated B-BBEE certificate valid as at the date of tender closing must be attached to the bid submission or must be made available upon request within the specified period.

## 1.2 If the tendering entity does not undergo B-BBEE verification and qualifies as a B-BBEE Qualifying Small Enterprise (QSE) and Exempted Micro-Enterprises (EME)

- Table 3 must be completed by a Commissioner of Oaths to confirm the following amounts disclosed by the bidder in Table 2:
  - (ii) Total Enterprise Supplier Development Expenditure;
  - (iii) Total Socio Economic Development Expenditure;
  - (v) Total Skills Development Expenditure

**\*Note 2**

## 2.1 The tendering entity must attach with the bid submission or must be made available upon request within the specified period; the most recent (where applicable) audited financial statements to enable validation of the following amounts disclosed by the bidder in Table 2:

- (i) Total Turnover
- (iv) Total Expenditure
- (vi) Total Profit

## 2.2 Companies who are required to be audited by legislation, must submit audited financial statements, not older than 12 months with the bid submission or must be made available upon request within the specified period.

**\*Note 3**

Sworn affidavit to be deposited by the Commissioner of Oaths to the QSE or EME.

I, the undersigned,

<b>Full Name and Surname</b> <i>(Authorised to represent the tenderer)</i>	
<b>Identity Number</b>	

Hereby declare under oath as follows

3.1 The contents of this statement are to the best of my knowledge a true reflection of facts.

3.2 I am a Member/ Director/ Owner of the following enterprise and am duly authorised to act on its behalf.

<b>Enterprise Name:</b>	
<b>Trading Name (If Applicable):</b>	
<b>Registration Number:</b>	
<b>Enterprise Physical Address:</b>	
<b>Type of Entity (CC, Pty (Ltd), Sole Prop etc):</b>	
<b>Nature of Business:</b>	

3.3 I hereby declare under oath that based on the Financial Statements / Management Accounts and information available on the latest financial year end \_\_\_\_\_

3.3.1 The annual Total Revenue was less than R50 000 000.00 (Fifty Million Rand);

3.3.2 The following amounts disclosed in Table 2 are accurate, complete, consistent with the BBBEE Act (see Notes for Verification) and based on the Financial Statements / Management Accounts and information available on the latest financial year end \_\_\_\_\_

<b>As per Table 2</b>	<b>Amount Declared (excluding VAT)</b>
(ii) Total Enterprise Supplier Development Expenditure	
(iii) Total Socio Economic Development Expenditure	
(iv) Total Expenditure	
(v) Total Skills Development Expenditure	

As per Table 2	Amount Declared (excluding VAT)
(vi) Total Profit	
(vii) Employee Share Scheme Ownership %	

3.4 I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the owners of the enterprise which I represent I this matter.

3.5 The sworn affidavit will be valid for a period of 12 months from the date signed by the commissioner.

Commissioner of Oaths  
Signature, Date and Stamp

Deponent Signature and Date

3.6 KEY NOTES OF DETERMINING VALIDITY OF SWORN AFFIDAVITS

<p><b>BBBEE Certificates/ Sworn Affidavits</b></p>	<p>Returnable for declaration requirement must be attached with the bid submission or must be made available upon request within the specified period</p> <ul style="list-style-type: none"> <li>- Certified and Valid copy of BBBEE Certificate issued by a SANAS Accredited Verification Agent, or</li> <li>- Certified and Valid copy of Sworn Affidavit for either EME or QSE (see key notes below to determine Validity of a Sworn Affidavit); or</li> <li>- Valid copy of BBBEE Certificate issued by CIPC for EME’s only</li> </ul> <p><b>KEY NOTES OF DETERMINING VALIDITY OF SWORN AFFIDAVITS</b></p> <p><b>Tenderers submitting Sworn Affidavits must ensure that the affidavits meet the following key pointers to ensure their validity:</b></p> <p>(a) Name/s of deponent as they appear in the identity document and the identity number.                  (b) Designation of the deponent as the Director/ Member must be indicated in order to know that person is duly authorised to depose of an affidavit <b>(mark the applicable</b></p>
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	<p><b>option).</b></p> <p>(c) Name of enterprise as per enterprise registration documents issued by CIPC, where applicable, and enterprise business address.</p> <p>(d) Amounts as per Table 2 must be inserted <b>(No blank spaces to be left)</b>.</p> <p>(e) Indicate total revenue for the year under review and whether it is based on audited financial statements or management accounts <b>(mark the applicable option)</b>.</p> <p>(f) Financial year end as per the enterprise's registration documents, which was used to determine the total revenue (financial year end to be stipulated by day/ month/ year).</p> <p>(g) Date deponent signed and date of Commissioner of Oath must be the same. (The sworn affidavit must be signed in the presence of the Commissioner of Oath. Furthermore the Commissioner must also sign ad stamp).</p> <p>(h) Commissioner of Oath cannot be an employee or ex officio of the enterprise because, a person cannot by law, commission a sworn affidavit in which they have an interest.</p> <p>If the relevant documentation/ information as stipulated in the enquiry is not submitted and/or does not meet the above requirements; tenderers will be disqualified.</p>
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For official use.		
<b>SIGNATURE OF CCT OFFICIALS AT TENDER OPENING</b>		
1.	2.	3.

<b>Schedule F.5: Declaration of Interest – State Employees (MBD 4 amended)</b>
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1. No bid will be accepted from:
  - 1.1 persons in the service of the state<sup>1</sup>, 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 (CCT) during the previous twelve (12) months, or
  - 1.4 from an entity who has employed a former CCT employee who was at a level of T14 or higher at the time of leaving the CCT's employ and involved in any of the CCT's bid committees for the bid submitted, if:
    - 1.4.1 the CCT employee left the CCT's employment voluntarily, during the previous twelve (12) months;
  - 1.5 a person who was a CCT employee, or an entity that employs a CCT employee, if
    - 1.5.1 the CCT employee left the CCT's employment whilst under investigation for alleged misconduct, or
    - 1.5.2 was facing disciplinary action or potential disciplinary action by the CCT, or
    - 1.5.3 was involved in a dispute against the CCT during the previous thirty six (36) months.
  
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, shareholder<sup>2</sup>): \_\_\_\_\_
  - 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 CCT 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 CCT at a level of T14 or higher at the time they left the employ of the CCT, and who was involved in any of the CCT'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 CCT of any other remedies available to it.

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

- '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.

<sup>2</sup> 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 F.6: 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	
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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	
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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 CCT, please contact the following:***

***The CCT'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 CCT of any other remedies available to it.

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

\_\_\_\_\_  
 Date

## Schedule F.7: 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><b>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?</b></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><b>The Database of Restricted Suppliers now resides on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.1.1	If so, furnish particulars:		
2.2	<p><b>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?</b></p> <p><b>The Register for Tender Defaulters can be accessed on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</b></p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.2.1	If so, furnish particulars:		
2.3	<p><b>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?</b></p>	Yes <input type="checkbox"/>	No <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 CCT of any other remedies available to it.

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

\_\_\_\_\_  
 Date

<b>Schedule F.8: Authorisation for the Deduction of Outstanding Amounts Owed to the CCT</b>
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To: THE CITY MANAGER, City of Cape Town

From: \_\_\_\_\_  
(Name of tenderer)

**RE: AUTHORISATION FOR THE DEDUCTION OF OUTSTANDING AMOUNTS OWED TO THE CCT**

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;

Physical Business address(es) of the tenderer	Municipal Account number(s)	Inside the CCT municipal boundary (Yes/No)

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)	Inside the CCT municipal boundary (Yes/No)

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 CCT of any other remedies available to it.

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

\_\_\_\_\_  
Date

<b>Schedule F.9: Certificate of Independent Tender Determination</b>
--

I, the undersigned, in submitting this tender number [     ] /2023/24 and tender description: **[ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS ]** in response to the tender invitation made by THE CCT, 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 consortium<sup>1</sup> 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/o/r 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

Print name:

On behalf of the tenderer (duly authorised)

\_\_\_\_\_  
Date

**(<sup>1</sup> 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**



**Schedule F.11: List of Other Documents Attached By Tenderer**

The tenderer has attached to this schedule, the following additional documentation:

	<b>Date of Document</b>	<b>Title of Document or Description (refer to clauses / schedules of this tender document where applicable)</b>
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

<b>Schedule F.12: Record of Addenda to Tender Documents</b>
---

We confirm that the following communications received from the CCT 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.

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

\_\_\_\_\_  
 Date

**Schedule F.13: Information to Be Provided With the Tender**

The following information shall be provided with the Tender:

- A. Proof of Company Previous Experience specific to established rotating electrical machine maintenance specialist for machines rated above 30 MVA and 10 kV. These are consecutive years added up from each project duration.

Experience of Sub-contractors will not be considered.

- B. Schedule Proof of Company Previous Experience in the following works for machines rated above 30 MVA and 10 kV.

Experience of Sub-contractors will not be considered.

- Stator Rewinding
- Rotor Balancing
- Rotor Pole Rewinding or Rotor Rewinding

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

\_\_\_\_\_  
Date

**Schedule 13.A: Proof of Company Previous Experience specific to established rotating electrical machine maintenance specialist for machines rated above 30 MVA and 10 kV, as the main contractor. These are consecutive years added up from each project duration.**

Please Note: Experience in the periods listed below will be added up in order to achieve a total of years for the purpose of scoring. Projects undertaken in the exact same period cannot be added.

No	Details	
1	<p><b>Brief Description</b> of Contract:</p> <p>_____</p> <p>_____</p> <p>Starting Date: _____</p> <p>End Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
2	<p><b>Brief Description</b> of Contract:</p> <p>_____</p> <p>_____</p> <p>Starting Date: _____</p> <p>End Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
3	<p><b>Brief Description</b> of Contract:</p> <p>_____</p> <p>_____</p> <p>Starting Date: _____</p> <p>End Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>

No	Details	
4	<p><b>Brief Description</b> of Contract:</p> <p>_____</p> <p>_____</p> <p>Starting Date: _____</p> <p>End Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
5	<p><b>Brief Description</b> of Contract:</p> <p>_____</p> <p>_____</p> <p>Starting Date: _____</p> <p>End Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
6	<p><b>Brief Description</b> of Contract:</p> <p>_____</p> <p>_____</p> <p>Starting Date: _____</p> <p>End Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
7	<p><b>Brief Description</b> of Contract:</p> <p>_____</p> <p>_____</p> <p>Starting Date: _____</p> <p>End Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>

**Schedule 13.B: Proof of Company Previous Experience in the following works for machines rated above 30 MVA and 10 Kv, as the main contractor**

No	Details	
1	<p style="text-align: center;"><b>STATOR REWINDING OCCURANCE 1</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc): _____</p> <p>Specs of Generator: _____ _____ _____ _____ _____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract): _____ ( Company / Institution ) Contact Person at Principal: _____ ( First name or Initials, plus Surname ) Telephone Number: _____</p>
2	<p style="text-align: center;"><b>STATOR REWINDING OCCURANCE 2</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc): _____</p> <p>Specs of Generator: _____ _____ _____ _____ _____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract): _____ ( Company / Institution ) Contact Person at Principal: _____ ( First name or Initials, plus Surname ) Telephone Number: _____</p>
3	<p style="text-align: center;"><b>STATOR REWINDING OCCURANCE 3</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc): _____</p> <p>Specs of Generator: _____ _____ _____ _____ _____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract): _____ ( Company / Institution ) Contact Person at Principal: _____ ( First name or Initials, plus Surname ) Telephone Number: _____</p>

<p><b>4</b></p>	<p align="center"><b>ROTOR BALANCING OCCURANCE 1</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc): _____</p> <p>Specs of Generator: _____ _____ _____ _____ _____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract): _____ ( Company / Institution ) Contact Person at Principal: _____ ( First name or Initials, plus Surname ) Telephone Number: _____</p>
<p><b>5</b></p>	<p align="center"><b>ROTOR BALANCING OCCURANCE 2</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc): _____</p> <p>Specs of Generator: _____ _____ _____ _____ _____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract): _____ ( Company / Institution ) Contact Person at Principal: _____ ( First name or Initials, plus Surname ) Telephone Number: _____</p>
<p><b>6</b></p>	<p align="center"><b>ROTOR BALANCING OCCURANCE 3</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc): _____</p> <p>Specs of Generator: _____ _____ _____ _____ _____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract): _____ ( Company / Institution ) Contact Person at Principal: _____ ( First name or Initials, plus Surname ) Telephone Number: _____</p>
<p><b>7</b></p>	<p align="center"><b>ROTOR POLE OR ROTOR REWINDING OCCURANCE 1</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc): _____</p> <p>Specs of Generator: _____ _____</p>	<p>Principal (Employer / Awarder of Contract): _____ ( Company / Institution ) Contact Person at Principal: _____</p>

	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Date: _____</p>	<p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
<p>8</p>	<p><b>ROTOR POLE OR ROTOR REWINDING OCCURANCE 2</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc):</p> <p>_____</p> <p>Specs of Generator:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
<p>9</p>	<p><b>ROTOR POLE OR ROTOR REWINDING OCCURANCE 3</b></p> <p>Type of Unit: (Example Horizontal Generator, Alternator, Salient Pole Machine etc):</p> <p>_____</p> <p>Specs of Generator:</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Date: _____</p>	<p>Principal (Employer / Awarder of Contract):</p> <p>_____</p> <p>( Company / Institution )</p> <p>Contact Person at Principal:</p> <p>_____</p> <p>( First name or Initials, plus Surname )</p> <p>Telephone Number:</p> <p>_____</p>
	<p>Date: _____</p>	

<b>Schedule F.14: Appeal Application</b>
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**OFFICIAL RECEIPT**  
(Valid only if printed  
by official cash  
receipting machine)

**IRISITI ESESIKWENI**  
(Isemthethweni kuphela  
xa ishicilelwe  
ngumatshini wokukhupa  
**irisiti osesikweni.**)

**AMPTELIKE KWITANSIE**  
(Geldig alleenlik indien deur  
amptelike kontantvangs  
masjien gedruk.)

**GL DATA CAPTURE RECEIPT**  
(CASHIER TO RETAIN A COPY)

RECEIPT NO:  
\_\_\_\_\_

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

**SAP GL:**

8	1	0	1	0	0
---	---	---	---	---	---

**PROFIT CENTRE:**

1	3	0	5	0	0	0	1
---	---	---	---	---	---	---	---

**NAME/COMPANY NAME:**

--

**AMOUNT:**

						R	3	0	0	-	0	0
--	--	--	--	--	--	---	---	---	---	---	---	---

**SERVICE DEPARTMENT DETAILS-**

**DEPARTMENT: LEGAL SERVICES; APPEALS UNIT**

**EMAIL; [MSA.Appeals@capetown.gov.za](mailto:MSA.Appeals@capetown.gov.za)**

**CIVIC CENTRE    IZIKO LOLUNTU    BURGERSENTRUM**

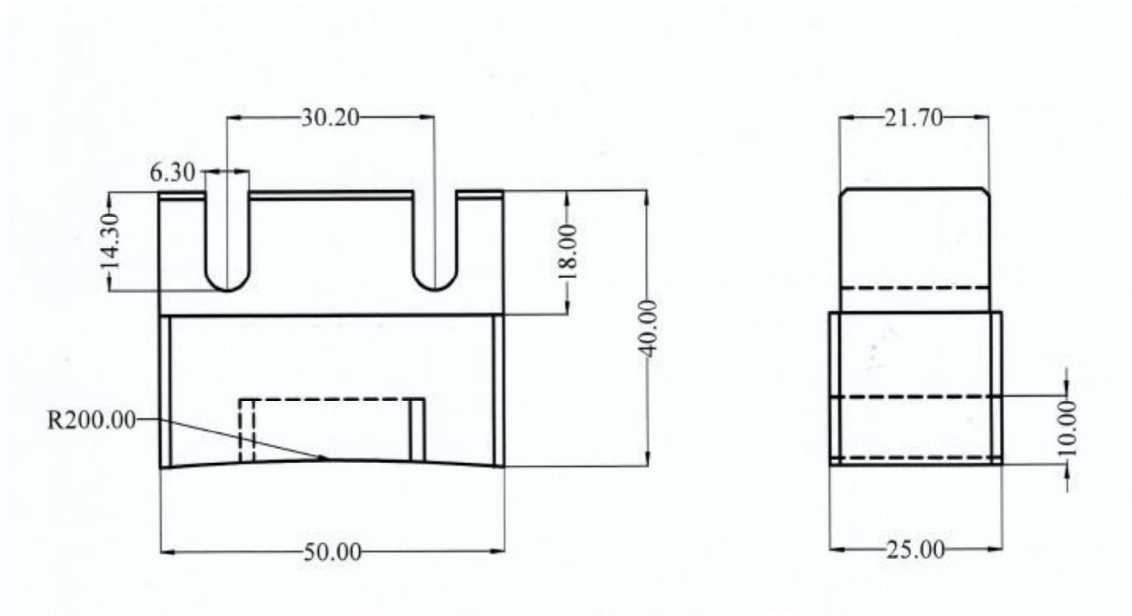
12 HERTZOG BOULEVARD CAPE TOWN 8001 P O BOX 298 CAPE TOWN 8000  
[www.capetown.gov.za](http://www.capetown.gov.za)

**Making progress possible. Together.**

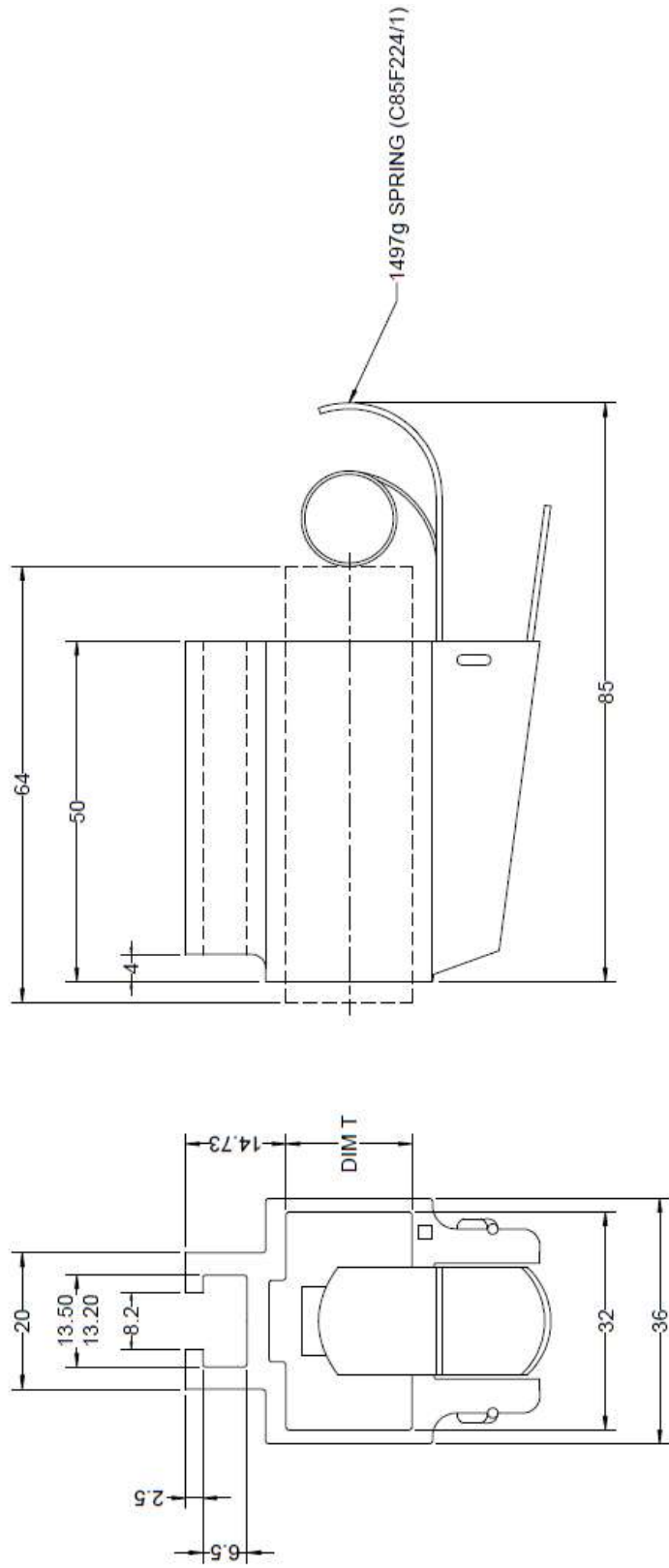
**Schedule F.15: Additional Specification Annexures**

<b>Annexure</b>	<b>Details</b>
Annexure A	Brush Gear Drawings for Generator
Annexure B.1	Excitation Information
Annexure B.2	Selenium Stack
Annexure C	SER / Omniflex
Annexure D	Steenbras Rotor Pole Drawings

# **ANNEXURE A – BRUSH GEAR**

**Pony Motor Brush Holder**

**Generator Brush Holder**



**Generator Brush Material**

<u>GENERAL DESCRIPTION AND SPHERE OF USE</u>	<u>CLASSIFICATION</u>
Similar to EG0 and suitable for slip ring applications.	Electrographite

**PHYSICAL DATA**

RESISTIVITY	<b>12</b>	$\mu$ ohm m	<b>4.7</b>	10-4 ohm in
TRANSVERSE BEND STRENGTH	<b>130</b>	kg/cm <sup>2</sup>	<b>1890</b>	lb/in <sup>2</sup>
BULK DENSITY	<b>1.55</b>	g/cm <sup>3</sup>	<b>97</b>	lb/ft <sup>3</sup>
SHORE HARDNESS	<b>37</b>			

The figures given are typical values

**OPERATIONAL DATA**

NORMAL CURRENT DENSITY RATING	Commutators	<b>10</b>	A/cm <sup>2</sup>	<b>64.5</b>	A/in <sup>2</sup>
	Rings	<b>11.5</b>	A/cm <sup>2</sup>	<b>74.2</b>	A/in <sup>2</sup>
NORMAL MAXIMUM OPERATING SPEED		<b>20</b>	m/s	<b>3940</b>	ft/min
NORMAL RECOMMENDED PRESSURE		<b>180</b>	g/cm <sup>2</sup>	<b>2.57143</b>	lb/in <sup>2</sup>

**TEST DATA**

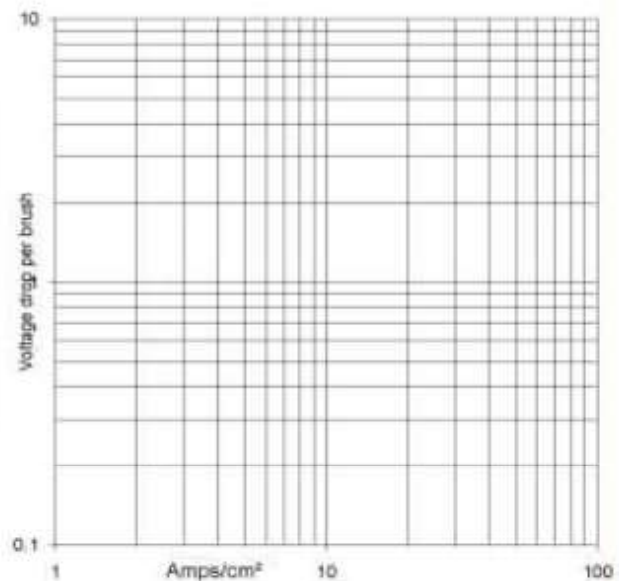
BLOCK SIZE - BU1423, BU1477, BU1485  
00, BU1493

This data has been obtained in the test laboratory on a 230 mm diameter slotted copper ring (VPN 84-90) at the following test conditions:

BRUSH SECTION T * A	<b>12.5 * 25</b>	mm
NUMBER OF BRUSHES	<b>4</b>	RADIAL
BRUSH PRESSURE		g/cm <sup>2</sup>
PERIPHERAL SPEED		m/s
CURRENT DENSITY		A/cm <sup>2</sup>

AV. VOLT DROP PER BRUSH	<b>0.95</b>	V
AV. COEF. OF FRICTION	<b>0.11</b>	

These characteristics may vary with different machines and conditions of utilisation, and figures quoted are for guidance only.



DATE 19/05/03

# **ANNEXURE B.1 – EXCITATION**

2.3.2 Description of THYRIPOL-Excitation System

E 112/839 052/Rei

## Steenbras Excitation System

Content

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General	1
Excitation transformer	2
Rectifier cubicles E 31 and E 32	3
Overvoltage protection E 42	4
Excitation build-up for self-excited generators E 42	5
De-excitation E 42	6
Electronic regulation and control E 21/E 22	6
Power supply E 21/E 22	7
Power supply for the regulation equipment E 21/E 22	7
Voltage control circuit	8
Manual setter (current controller)	9
Indication and matching (E 21/E 22)	9
Operation of the setter for manual operation and voltage reference value E 21/E 22	10

## Steenbras Excitation System

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Switch-over manual-matching controller (E 21/E 22)	11
Trigger set (E 21/E 22)	11
Analog stage (E 21/E 22)	11
Control inputs (E 21/E 22)	12
Synchronisation (E 21/E 22)	12
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Rotor temperature measurement	17

## Steenbras Excitation System

General

Excitation of the generators is carried out by a "THYRIPOL" control system. The energy for excitation is obtained from the generator terminals. The converter transformers are connected to the generator input feeders.

The excitation system consists of the following equipment:

The excitation transformers m01 - m03

The regulator and control cubicle E 21 and E 22 consisting of 2 standard cubicles 8MF

The converter with 4 parallel bridge circuits, which are housed with the accessory equipment in two standard cubicles 8MF, E 31 and E 32

The field circuit breaker and the overvoltage protection with selenium diverters and the miscellaneous auxiliary equipment housed in standard cubicles 8MF, E 41 and E 42.

The cubicles are bolted to each other and situated in the power house near the generator. The equipment is cooled with filtered cooling air.

The maximum loading of the excitation system is:

continuous	972 A	
10 s	2022 A,	
ceiling voltage	134 V	(factor 2.08, with reference to 134 V rated excitation voltage).

## Steenbras Excitation System

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The rating of the converter makes it possible to continue operation at rated power if one of the thyristor bridges fails. The equipment is independent of the station service mains. D.C. voltages of 24 V and 110 V are necessary. The power supply for the electronic regulation equipment is galvanically isolated from the 24 V supply for safety reasons.

### Excitation transformer

The transformers are connected directly to the 12 kV generator lead via fuses. Transformers m01-03 is connected to the thyristor bridges with single-conductor cables of equal length.

The 3-phase unit is made up of 3 single-phase transformers in vector group Yd5.

### Specifications (Single Phase Unit):

Rated power	122 kVA, 50 Hz
Primary voltage	12 kV/V3
Secondary voltage	230 V
Primary current	17,61 A
Secondary current	530 A
Vector group	
Short circuit voltage	6,01 %
Cooling	CNAN
Total weight	0,55 t

An earthed shield is situated between the primary and secondary windings in order to protect the converter thyristors from transient overvoltages in the 12 kV mains.

- 1) Reference sheet numbers in compliance with diagrams  
(3) E14012-G1573-S311

## Steenbras Excitation System

Rectifier cubicles E 31 and E 32

Two 3-phase a.c. bridges are connected in parallel in each cubicle<sup>1)</sup>. The 230 V 3-phase a.c. input is connected by cables to the single phase transformers. 1/7, 2/7

The d.c. supply is connected to each cubicles and then via the auxiliary cubicle E 42 with the de-excitation circuit breaker to the slip rings.

The cubicles contains two 3-phase a.c. bridges each with 6 thyristor modules teb h 3t 2n 90 with thyristors of type Bst N 4590. (See appendix). The firing circuits and the auxiliary circuits for thyristors are contained in the modules. The firing pulses are generated and amplified by the pulse amplifier built into the trigger set, (subframe). Plug-in connection is possible via screened cable.

The thyristor modules are forced-ventilated at approx. 0.7 m<sup>3</sup>/sec by fans E 31 m31, m32 and E 32 m51, m52. 5/8

The fans are mounted on the cubicles and protected by protective circuit breakers E 31 a41, a42 and E 32 a43, a44. Both air-flow monitors are housed in the duct between the fans and the thyristors. Both fans are running, if fan main fails fan standby takes over without delay. This will cause alarm. An additional failure on fan standby will cause a tripping signal. The warm exhaust air from the fan is discharged into the excitation room from which it is extracted. Fresh air is drawn in from the air below the cubicles and filtered. The filters must be inspected every week and renewed or 5/7

1) two cubicles with four bridges are building the rectifier

SIEMENS

- 4 -

## Steenbras Excitation System

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cleaned. Each thyristor module is fused with a matched fuse. The fuses are monitored collectively using monitoring equipment u311-316, u321-326, u511-516, u521-526 (see alarm signals).

1/5, 1/6  
2/5, 2/6

### Overvoltage protection E 42

Selenium stacks connected in the blocking direction are used for overvoltage protection of the rotor and the thyristors. The selenium stacks are manufactured specially for this purpose. Their current-voltage characteristic resembles that of zener diodes.

4/4

The selenium stacks can withstand currents of 60 A for transient periods of 2 seconds. Voltages are limited to between 70 and 80 V per plate. The number of plates connected together determines the maximum limiting voltage. During operation (rated or continuous operation of the generator) 30 V is permissible per plate, the ceiling voltage is 40 V. Therefore 7 plates are connected in series, and 9 are in parallel n80.

In order to improve the current distribution in the selenium stacks, resistances are connected in series r80.1 - r80.9.

The overvoltage protection is connected to the d.c. side of a bridge rectifier consisting of silicon diodes n81. This is necessary as d.c. voltages of both polarities occur in converters connected in the fully controlled 3-phase bridge connection. The a.c. side of the bridge rectifier is connected to the d.c. busbar. A shunt resistor f80 is used to

4/3

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Steenbras Excitation System

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measure the current in the overvoltage protection. 4/3  
The sensing relay e80 energizes at approx. 10 %  
of the rated overvoltage protection current (i.e.  
no load excitation current). This is indicated.  
A longer energizing of the relay or repeated  
energizing leads to switch-off (see alarm signals).  
After an activation caused by the overvoltage pro-  
tection, the selenium stacks should be inspected and  
the isolation capability should be checked. Small  
burn marks distributed over the surface do not im-  
pair the operational capability. The stacks should  
be exchanged if larger burn marks or damage in more  
than 10 % of the surface area are visible.

Excitation build-up for self-excited generators E 42

For purposes of excitation build-up, auxiliary excita-  
tion power must be supplied to generators in which the  
power required for the excitation system is obtained  
from the generator terminals. The auxiliary power is  
required for excitation build-up and operates by in-  
creasing the residual voltage to a value at which the  
electronic system is guaranteed to start operation.  
The auxiliary excitation is supplied from the 380 V  
station service mains of the power station. The equip-  
ment for excitation build-up is situated in the auxili-  
ary cubicle E 42. The input feeder is protected by  
fuses e623-e625. 3/2

The equipment is connected to the 3-phase a.c. side 3/2  
via a contactor situated in the MC-Board. Transformer  
m621 has a transformation ratio of 380 V/15 V and is  
rated so that the generator can be excited to approxi-  
mately 25 % of its no-load excitation.

SIEMENS

- 6 -

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 Steenbras Excitation System
 

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The transformer feeds the rectifier set n621. The d.c. voltage is connected to the rotor circuits via contactor c601 and fuses e621 and 622. The 3-phase a.c. contactor and the d.c. contactor are closed during normal operation by the coupling relay d69, which is energized by the control circuits.

3/4

48/8

De-excitation E 42

The equipment for de-excitation is housed in the auxiliary cubicle. A field circuit breaker type AFMD 1250, manufactured by ASEA, is used. This breaker has 2 main contacts and a leading auxiliary contact for connecting resistor r61. The field breaker is connected to the converter by cable. The coupling relay d713 (for energizing see control circuits) is used to close the field breaker via a motor drive. The motor is driven from the 110 V d.c. supply and switched on via contactor c61.

4/8, 55

55/2

55/3

The field breaker has one tripping coil for 110 V. For each operational or protective shut-down, the field breaker is operated. The generator circuit breaker must be "OFF" v24x1d6 before shut-down is initiated in the manual or automatic mode via coupling relay for "OFF" d701.

48/2

Electronic regulation and control E 21/E 22

The equipment is available as plug-in modules and is mounted in subracks which are housed in the regulation and control cubicle. A detailed description of the modules is available in the appendix, if better comprehension of the following functional description is necessary.

Steenbras Excitation SystemPower supply E 21/E 22

An internal 380 V supply is available for the power 5/5  
supplies and the main fans of the excitation system<sup>1</sup>.  
This is fed from transformer m41, the primary of which  
is connected to the 230 V 3-phase a.c. supply for the  
rectifiers. Fuses e41.1 - e42.3 are situated between  
the 230 V feeder and the transformer. They are moni-  
tored by the fuse monitoring device u411-u413. This  
equipment is housed in the auxiliary cubicle E 42.

The internal 380 V power supply can be fed from the  
machine control board MC1.M6 during commissioning and  
testing. The switch b411 must be switched to "Test" 5/5  
for this.

The second power supply for the regulation equipment  
is taken from 24 V batteries. The input feeder is dupli-  
cated and monitored within the excitation equipment by  
relays d416 and d417. The inputs are decoupled by diodes 6/3  
n63, n64. The 24 V busbar is labelled P<sub>1</sub> M<sub>1</sub> and P<sub>2</sub>,  
M<sub>2</sub> respectively in the circuit diagrams.

Power supply for the regulation equipment E 21/E 22

The power supply units for the regulators are housed  
in rack v11. The 3-phase a.c. input feeder is protected  
by protective circuit breaker a45. The 24 V input feeder 7/2  
is protected by circuit breaker e401. The power supply 7/5  
unit v11 w1 supplies ± 24 V with respect to 0 at ~~site~~ *site set*.  
its output for maximum current of 1.8 A. Additional  
smoothing capacitors are connected k1 and k2.

- 1) the standby fans are supplied from the machine control  
board MC1.M5 as requested.

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### Steenbras Excitation System

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The input feed from the d.c. power supply comes	7/5
from the d.c. converter units v11x3 and v11x2.	7/6
Both voltages are monitored for undervoltage by	7/2
module v11x7.	7/6

All undervoltage monitoring units are connected to alarms. If both power supply systems are faulted, the generator is shut down. This also occurs if a protective circuit breaker is tripped.

#### Voltage control circuit

The generator voltage is measured by the voltage transformer (kindly see protection drawing (1) E52710-	13/4
A-831-S411, SH1) and connected to the auxiliary trans-	14/2
f11, f12 in the input module v14 x32, which produces the actual voltage value. The droop characteristic is superimposed in interposing transformers f13, f14. The smoothed actual value is compared with the coarse and fine reference values (with motor drive) in module v14 x32. The controller module v14 x33 has proportional-	14/4
integral action. On the input of the control loop the slow field-current limiting controller is connected.	

The controller module has fixed limiting corresponding to the input voltage required by the trigger set. Surge protection of the excitation current is carried out by connection of module v14 x34 to the additional limiting inputs. The actual current value is generated	14/2
by current transformer, which is fed by shunt resistance	4/1, 4/2
f61 (1500 A/150 mV). The limiting should be adjusted to 1360 A. A further input of S712.6 the controller	

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 Steenbras Excitation System
 

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module v14 x33 is used for underexcitation limiting. 14/5  
 The output signal of the voltage controller is connected via relay v14 x35 d4 to the trigger set if manual operation is not chosen.

The reference voltages for the controller are produced by stabilizers v14 x36 and x37. 15/2

Manual setter (current controller)

The excitation current is held constant during manual operation. The reference value of the current is produced by setter v14 x21. Resistor v14 x16 r5 is used to match the actual value to the reference value setter. 15/1  
 The actual value is produced similarly by instrument transformer f61. The actual value and the reference value are compared in current controller v14 x23. The 4/2  
 output of the current controller is connected to the trigger set via relay v14 x22 d1. 15/5

Indication and matching (E 21/ E22)

The difference between the output voltages of the corresponding control amplifiers is measured by the matching amplifier v14 x25 for matching from manual to controller and vice versa. This is then connected to the matching instruments in the control room. The matching instrument is operational if relays v14 x22 d5 and d6 are energized. 16/3 16/7

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 Steenbras Excitation System
 

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During matching from manual to automatic control, 14/5  
 the control amplifier v14 x33 is switched to propor-  
 tional action by relay v14 x35 d1. 14/5

Since a follow up control is required and mounted,  
 the change-over from automatic to manual control can  
 be made at any time without balancing. The setter for  
 the field current is taken along by the servo system  
 when the regulator switch is in the position "AVR".  
 I.e. via differential amplifier v13x1 and v13x2 lower 16/2  
 or higher signals are connected to the reference set- 16/5  
 ter. Follow-up control can be checked for proper func- 53/6, 7  
 in position "Balancing".

Operation of the setters for manual operation  
and voltage reference value E 21/E 22

This includes modules IP1 v14 x11 to x17. The setters 51/  
 are operated via a control desk tile in the control 52/  
 room and the automatic control. The operation of the  
 drives is mutually interlocked via a twist switch on  
 the control desk in the control room. If the operating  
 mode "voltage controller" or "manual with matching" is  
 chosen, the voltage reference setter is activated. The  
 manual setter is activated if the operating mode  
 "manual" or "controller with matching" is chosen. The  
 voltage reference setter (v14 x31) is activated by module 53/3  
 (v14 x11). The manual reference setter (v14 x21) is acti- 52/4,  
 vated by module (v14 x13). 53/6  
 The inputs are connected in parallel. The module 52/1  
 v14 x11 used for controlling the voltage reference  
 value is also activated by module v14 x12.

## Steenbras Excitation System

Switch-over manual - matching - controller (E 21/E 22)

The switch-over is carried out by module v14 x14. 51/3  
 Activation can be carried out from the control room  
 via a control desk tile. The operating mode is indi-  
 cated within the cubicles. 51/5  
 If ceiling voltage operating time exceeds 10 seconds,  
 the switchover to manual is caused automatically with  
 alarm.

Trigger set (E 21/E 22)

The trigger set v15 is built into a three-tier rack.  
 It produces the firing pulses required for firing the  
 thyristors. These pulses are amplified by the pulse ampli-  
 fiers. The firing pulses are synchronized by the external  
 a.c. voltage (in phase with the converter voltage).

Analog stage (E 21/E 22)

The output voltage of the controller is connected 15/6  
 to v15 x39 (9)\* and matched to the control units  
 via an amplifier from p1 - p5. The amplifier is con-  
 nected to limiting circuits which are used to limit  
 the maximum firing angles,  $\alpha_G$  (converter limit,  
 adjusted to  $50^\circ$  electrical) and  $\alpha_W$  (inverter  
 limit, adjusted to  $140^\circ - 150^\circ$  electrical). The ad-  
 justment is carried out at v15 x14. The  $\alpha_W$  limit 15/6  
 can also be influenced by the supply voltage of the  
 converter. Positive output voltages indicate inverter

\* Number on the terminal or plug

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 Steenbras Excitation System
 

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operation (firing angle greater than  $90^\circ$  electrical). Negative output voltages indicate converter operation (firing angle less than  $90^\circ$  electrical). If the amplifier is not controlled externally then its output always goes to the inverter limit.

Control inputs (E 21/E 22)

Activation occurs via v15 x23. This module matches the 24 V commands produced by relays to the electronic circuits. Inputs are provided for pulse cancelling and pulse shifting to the inverter limit.

Synchronization (E 21/E 22)

The synchronization voltage is 380 V, 3-phase a.c. It can vary between 115 V to 500 V. If the voltage is less than 115 V and upto a minimum of 40 V, pulses are produced, but with phase error. The voltages must have a clockwise rotating field and the phases must correspond with those of the converter. Matching to 520 V converter voltage is via three single-phase transformers m411, which are protected with fuses e451 - e453. The fuses are monitored by u451-u453. De-excitation is initiated if the monitoring is activated.

17/2

The 3 synchronization circuits v15 x24 - x26 produce 6 synchronization pulses from the three phase-to-phase voltages.

17/7

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Steenbras Excitation SystemPulse generation (E 21/E 22)

Each output of the synchronization circuits is con-	18/3
nected to a control unit. Control unit v15 x23/1-23/6	19/3
produces firing angles at the output with a duration	20/3
of 22° electrical. The pulse duration is dependent	21/3
on the voltage at (23) and is determined by v15 x14	22/3
via resistors r7 and r8.	23/3

Shifting of the pulses occurs by connecting the control voltage in parallel to all the analogue inputs (27).  $\alpha_0$  is set to  $\alpha_0 = 90^\circ$  electrical via v15 x14 r4, e.g. output current = 0 when the input control voltage of the trigger set = 0. The control of the positive half of the 3-phase bridge circuit can be shifted with respect to the negative half with v15 x14 r3. If v15 x14 r4 is changed  $\alpha_G$  and  $\alpha_W$  must be recalibrated.

Pulse amplification (E 21/E 22)

The outputs of the control units are connected to	18/5
2 pulse amplifier modules v15 x35 and v15 x37. Each	19/5
module contains 3 amplifiers. As double pulses with	20/5
22° pulse duration are required to fire 3-phase	21/5
a.c. bridges (start-up of the bridge), a pulse ampli-	22/5
fier with 2 control units is activated accbrding to the	23/5

following plan:

Double output pulse 1	activated by 1 and 2
Double output pulse 2	activated by 2 and 3
Double output pulse 3	activated by 3 and 4
Double output pulse 4	activated by 4 and 5
Double output pulse 5	activated by 5 and 6
Double output pulse 6	activated by 6 and 1

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## Steenbras Excitation System

Under-excitation limiting (E 21/E 22)

The limits for the minimum under-excitation of the generator is set by the generator reactive current, the generator real current and the generator terminal voltage. The reactive current is measured by the modulator circuit v12 x4 y1, which is fed by transformers f32 and f30. Since the reactive current must be measured, the current from phase S and the voltages from phases R-T are connected. The measured values are smoothed by amplifier v12 x4 y2. Positive output voltage indicates overexcitation, negative output voltage indicates under-excitation.

26/2  
13/6,  
13/3  
26/2

The active current of the generator is measured by modulator circuit v12 x3 y1. Current is fed via transformer f31, which is connected to phase S as for reactive current sensing. The voltage is fed via transformers f33 and f34. The secondary sides of both these transformers are so connected, that a 90° shift with respect to the output voltage of transformer f31 is produced. The output voltage is positive in generator operation mode, negative in motor operation mode.

26/1  
13/5  
13/1

The generator terminal voltage is sensed by a transformer via module v12 x1. Amplifier v11 x2' y2 is connected and is required for impedance matching. Its output voltage is positive and should be 8 volts for rated generator voltage. Adjustment is possible with a matching resistor.

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Steenbras Excitation System

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The active generator current is compared with the terminal voltage during operation by amplifier v12 x4 y3. The output of this amplifier (socket b1.1) is approximately +0.6 V as long as the active current is low i.e. so long as this is not required to have any influence. If the active current is raised then b1.1 becomes negative and indicates the crossing of an active current limit. This limit produces a break point in the diagram (Generator diagram, drawing (3) E14012-G1573-S311-Sheet 60). The adjustment of the break point is carried out by potentiometer v12 x3 r6.2.

Reactive current, generator voltage, and the active current influenced by the voltage, are compared with each other at the input of summing amplifier HV12 y2. 26/7  
The reactive current is connected via 33 kohm. The limit for active current 0, i.e. for phase shift operation, is set by potentiometer v12 x3 r5.2.

The summing amplifier is connected to comparator v13 x5 d2. It gives an indication if the generator approaches the characteristic. This is indicated.

The PI-controller v12 x5 is connected to the summing amplifier in the control loop for under-excitation limiting.

The output range is  $\pm 10$  V. The control loop takes 27/6  
over from the voltage controller v14 x33 if relay v14 x35 d3 is closed i.e. when the power supply for the limit controller is switched on.

Means are taken by provided v13 x4 to have respect to motor and generator operation.

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## Steenbras Excitation System

Excitation-current limiting

The actual value of the rotor current is sensed by shunt transformer u61 in the de-excitation cubicle: 4/2  
 1500 A corresponds to -10 V. This actual value is connected to amplifier v12 x10 y1 and is compared 29/3  
 to the reference value which is set by potentiometer v12 x10 r4.1. Normally the adjustment corresponds to 1.4 x the rated excitation current of the generator, if no other data is given or it is adjusted according to the thermally limited excitation current. Amplifier v12 x10 y1 has unity amplification. If the polarity 29/3  
 of the amplifier output changes from negative to positive after the maximum actual value is exceeded, then amplifier v12 x10 y2 begins to operate as an inte- 29/4  
 grator. As long as the excitation current is low the integrator remains at the positive limit (measured at socket b5.1). After the limit value has been exceeded, the integrator runs from +11 V to 0 V and then to negative voltages. After -0.7 V the voltage control is influenced to produce a current reducing action, i.e. shifting towards inversion. The integrating time is determined by capacitors k4 - k6 in v12 x10. Additionally the integration time is influenced in the ratio 1 : 10 by the setting of the potentiometer v16 x10 r6.1. The integration time should be adjusted so that the controller has a dead time of minimum 10 seconds. This guarantees that the transients produced by the voltage controller are smoothed out, without the limiting controller being activated. The voltage controller v14 14/5  
 x33 should be adjusted with potentiometer v14 x33 r2.3 in such a way that a maximum influence of 10 % occurs on the voltage, when the output of the amplifier 29/2  
 v12 x10 y2 is -10 V.

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 Steenbras Excitation System
 

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Just before activation of the limiting, i.e. when the output of the integrator v12 x1 y2 is near 0, the comparator v13 x5 d1 gives a signal. This is indicated in the control room.

29/6

Rotor temperature measurement

The rotor temperature is determined from the rotor resistance, the underlying linear relationship being

$$R(t) = R_0 \cdot (1 + \alpha \cdot \Delta t) \text{ or}$$

$$\Delta t = \frac{R(t) - R_0}{\alpha \cdot R_0} = \frac{\frac{U_F(t)}{I_F} - R_0}{\alpha \cdot R_0}$$

Via the shunt transducers u61 and u62 the field current and the field voltage are available. The shunt transformers are designed to give outputs of up to 10 V (negative) if the shunt carries rated current. The shunt is rated so that the field current produces an output of 5 to 7 kV.

4/2, 4/5

The instrument transformer supplying the field voltage signal has its series resistors (and preliminary smoothing circuit) designed so that the output is again 5 to 7 V (negative). In order to eliminate the effects of field voltage fluctuations caused by dynamic processes in the system generator/excitation complex, the  $U_F$  signal is passed through an amplifier having a high smoothing time constant.

The smoothing time constant used for the field current signal is smaller by one order to magnitude.

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Steenbras Excitation System

The amplifier outputs v13 x24 and v13 x21 are connected 31/5, to indicating instruments for the field voltage and current. As the output current is nearly load-independent, the instruments have an internal resistance  $R_i$  of up to 600 ohms at a sensitivity of 0.6 mA/full deflection. The calibration of the instruments depends on the current transformer shunt and on the input voltage divider on the voltage transformer. Final calibration of the instruments is carried out with the aid of precision reference instruments at the time of commissioning.

The dividing amplifier v13 x25 produces the "resistance" signal from the "voltage" and "current" signals. Supplementary 10 kohm resistors in the "voltage" signal input circuit ensure that a 5 V divider is obtained at  $U/I = 1$ .

Because of the proportionally existing between temperature and resistance changes the cold resistance value is suppressed in the amplifier connected to the dividing amplifier output. This amplifier has a gain factor of 5. The temperature indicating instrument (0.6 mA/full deflection) is calibrated at the time of commissioning.

# **ANNEXURE B.2 – SELENIUM**

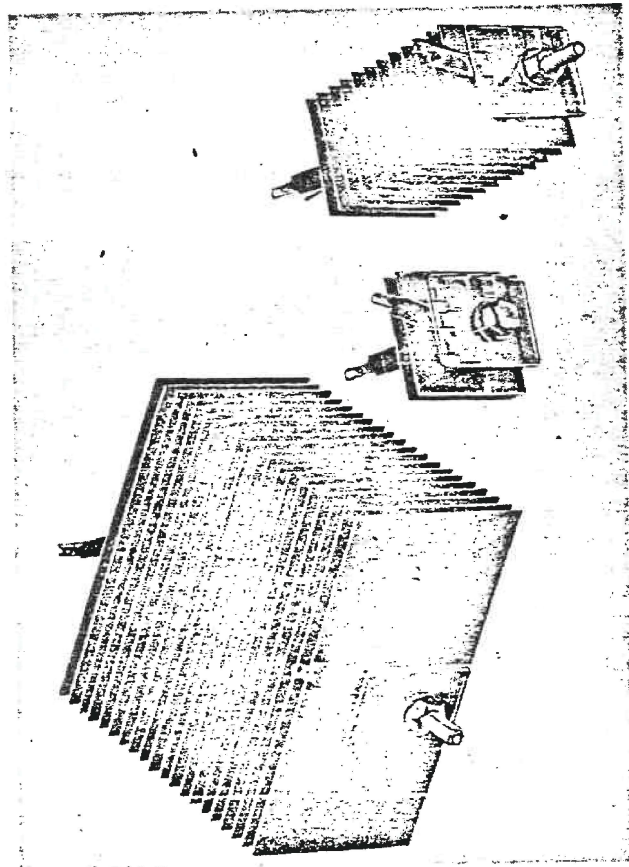
# 1. General and function

SIEMENS

Siemens selenium overvoltage protectors are designed to protect voltage-sensitive components such as SCR's or windings of electrical machines against overvoltages.

They are semiconductor devices in which the steep portion of the reverse characteristic is exploited to limit overvoltages. Their basic construction resembles that of the selenium stick rectifier. Depending on the required ratings, one or more selenium plates are connected in series, parallel or a combination of both. This permits the overvoltage limiter to be optimized for the particular application.

An overvoltage limiter plate exhibits a sharp knee in the reverse characteristic, for example with plate type PS at about 70 V (fig. 1). Normally the plate is operated below the knee, typically at the nominal reverse voltage  $V_{RWN}$ . The current then flowing through the limiter is very low and hardly loads the circuit to be protected. If as a result of an overvoltage the knee voltage of 70 V is exceeded, the reverse current through the limiter rises appreciably. However, the voltage across the limiter only rises by a factor of two or three. The pulse energy is then dissipated as heat in the plate.



2

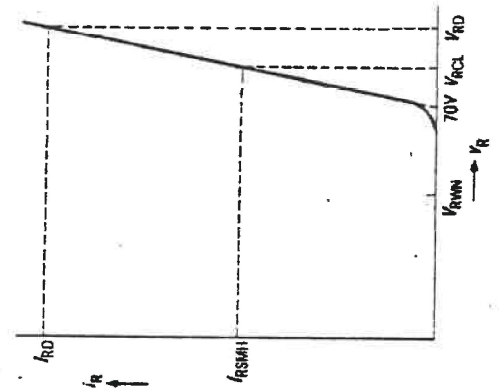


Fig. 1

## 2. Characteristics

Siemens overvoltage limiters are available in two versions: Plate type PS features a low limiting factor because of its high nominal operating voltage whereas type PR can withstand very high pulse loading.

For low power levels voltage limiter cells type UR in standard small rectifier format are also available on request<sup>1)</sup>.

Customized designs with larger plate spacing are also available for specialized applications such as generator protection.

The definitions listed below are based on the draft standard DIN 41 742.

### 2.1. Nominal operating voltage $V_{RW}$

RMS value of the sinusoidal alternating voltage that may appear across the selenium overvoltage limiter in the reverse direction during normal operation. Intermittent voltage increases of 10% are admissible.

The nominal operating voltage is

Plate type PS: 35 V per plate,

plate type PR: 25 V per plate.

When operated with a DC voltage having a ripple of less than 48%, the admissible operating voltage is

Plate type PS: 30 V per plate,

plate type PR: 20 V per plate.

### 2.2. Limiting voltage $V_{RCI}$

Maximum admissible peak voltage across the limiter at the maximum admissible aperiodic peak current.

At an ambient temperature of  $23 \pm 2$  °C it is

Plate type PS: 80 V,

plate type PR: 75 V.

### 2.3. Limiting factor $f_a$

The ratio of the limiting voltage to the crest value of the nominal operating voltage or DC voltage is designated the limiting factor.

The following table lists the limiting factors for the two plate types with sinusoidal AC and DC operation.

Plate type	sinewave AC	DC
PS	1.6	2.7
PR	2.1	3.7

<sup>1)</sup> Siemens Aktiengesellschaft, Bereich Röhren, Vertrieb, Salen, 8000 München 80, St.-Martin-Strasse 76.

### 2.4. Maximum admissible aperiodic peak current /ASMH

The peak value of the current pulse that may not be exceeded even with the shortest pulse duration.

It is listed in the following table for the various plate sizes. The values apply for operation at nominal voltage at an ambient temperature of 45 °C.

Dimensions mm x mm	Active area cm <sup>2</sup>	Type	Max. admissible aperiodic peak current		Max. admissible aperiodic peak current	
			A	A	A	A
25 x 25	3.6	PS 6	5	PR 6	27	
33 x 33	7.4	PS 11	10	PR 11	60	
40 x 40	10.5	PS 16	15	PR 16	85	
50 x 50	18.5	PS 25	25	PR 25	150	
40 x 80	24.5	PS 32	32	PR 32	190	
50 x 100	41	PS 50	50	PR 50	300	
100 x 100	83	PS 100	100	PR 100	600	
100 x 200	166	PS 200	200	PR 200	1200	
100 x 300	249	PS 300	300	PR 300	1600	
100 x 400	332	PS 401	360	PR 401	2000	

Table 1

When these values are exceeded, single plates may break down ( $V_{RP}$  in fig. 1). This will not lead to a loss in voltage limiting because the plates are self-healing.

If it is anticipated that the maximum admissible ambient temperature will be exceeded or that voltage pulses will occur regularly, it is recommended to reduce the maximum admissible peak current rating by 30 to 50%.

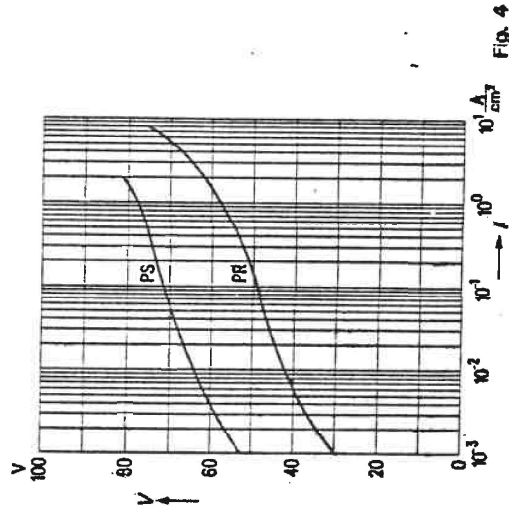
### 2.5. Peak current/pulse duration characteristic

The maximum admissible aperiodic peak current listed under 2.4. applies for pulses with a duration of less than 3 ms. For pulses of longer duration the current for the two plate types must be reduced in accordance with the derating diagrams figs. 2 and 3.

Operating condition	Pulse duration		300 ms		2 s	
	3 ms	30 ms	1.25	1.25	1.25	1.25
a	1.25	1.25	1.25	1.25	1.25	1.25
b	0.7	0.8	0.9	0.9	1.0	1.0
c	1.0	1.1	1.2	1.2	1.25	1.25

**Operating condition**

- a: Ambient temperature (23 ± 2) °C, operation at nominal voltage.
- b: Ambient temperature 45 °C without voltage applied prior to the pulse.
- c: Ambient temperature (23 ± 2) °C without voltage applied prior to the pulse.



**2.6. Peak voltage/peak current characteristic**

The curves in fig. 4 show the peak voltage as a function of the specific peak current, or peak current referred to the active plate area. From these curves the voltage across the limiter plate can be obtained for any current pulse. The peak voltage across the limiter is obtained by multiplying the value obtained from the curve by the number of plates in series.

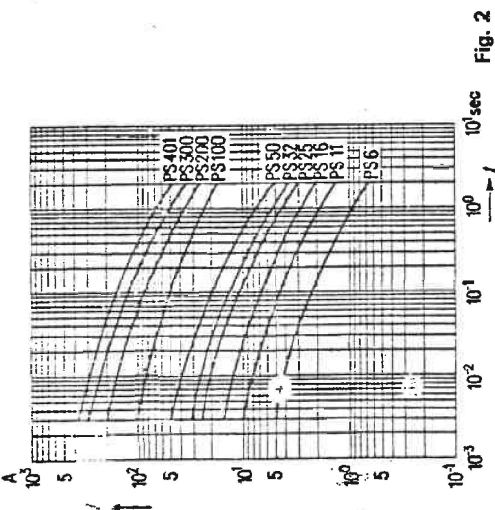


Fig. 2

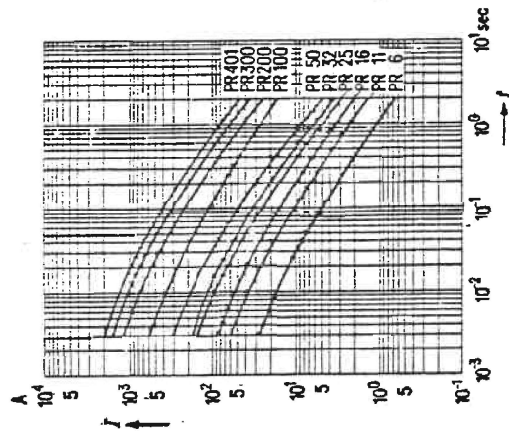


Fig. 3

Where plates are connected in parallel, the peak current rating of the plate is multiplied by the number of plates.

In normal applications voltage is continuously across the limiter. The peak current/pulse duration curves therefore apply for plates with nominal load at an ambient temperature of 45 °C. For other conditions of operation the admissible ratings differ from the curves above. They are found by multiplication with the correction factor obtained from the following table.

**2.7. Energy input/pulse duration characteristic**

The energy absorbing capability of an overvoltage limiter depends not only on the plate size and number of plates in series and parallel, but also on the duration of the overvoltage pulse. The energy of long pulses with correspondingly lower current amplitudes is absorbed over the complete plate, which then has a higher energy absorbing capability.

The curves in figs. 5 and 6 show the energy absorbing capability of a plate as a function of the pulse duration at an ambient temperature of 45 °C and operation at nominal voltage.

The energy absorbing capability of the complete overvoltage limiter is given by the value from the curve multiplied by the number of plates in series and in parallel.

**2.8. Energy absorption/peak current characteristic**

There are applications such as in power inverter equipment where it is advantageous if the plate type required can be read directly from the energy absorption/peak current characteristic. The curves in fig. 7 for plate type PS and fig. 8 for plate type PR represent a combination of figs. 2 and 5 and figs. 3 and 6 respectively.

Fig. 5

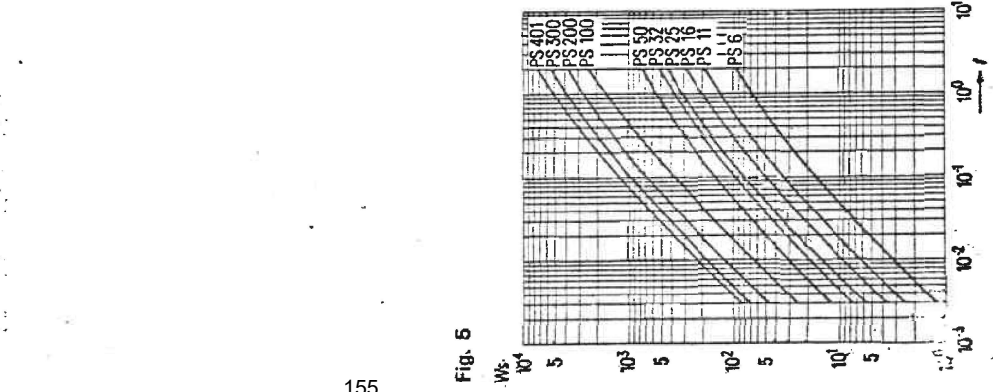


Fig. 6

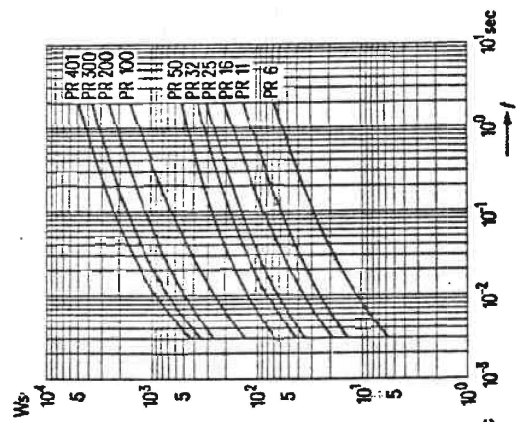


Fig. 7

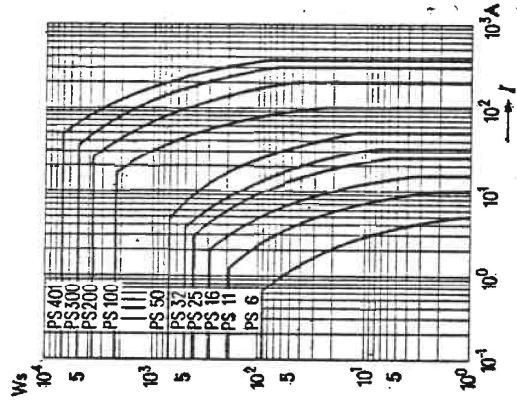
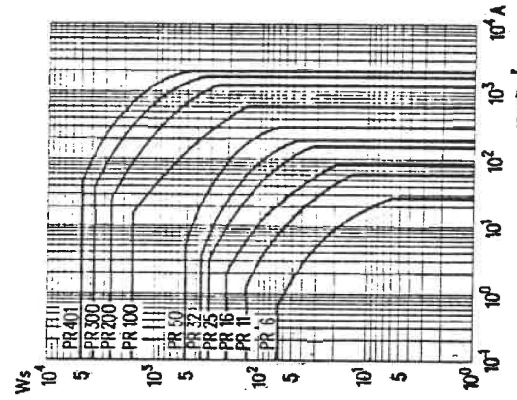


Fig. 8



# **ANNEXURE C – SER / OMNIFLEX**

## Background

Steenbras Power Station is a Pumped Storage Scheme situated in Gordons Bay Cape Town. The station consists of 4x 45 MW Francis Turbines.

1.1. The Station makes use of a Omniflex 260 system to distribute plant data and time stamped alarm data throughout the station which is then viewable on stations situated in strategic areas in the Power Station.

1.2. The current system, SER260, is now obsolete with spares no longer available from the OEM. We have been getting the physical boards repaired where possible, but one can only perform these repairs so many times before the boards eventually become too damaged to work on.

1.3. General:

- The City of Cape Town, Generation Department would like to upgrade certain portions of the system by replacing the Main CPU and Nodes with more modern products.
- The idea is to retain as much of the existing system as possible to save costs as this system may be replaced in the next 5 years, so we are not looking for a complete product replacement.
- Suggested products to be compatible with existing backbone (New wiring may be required) but will not require full replacement of the system.

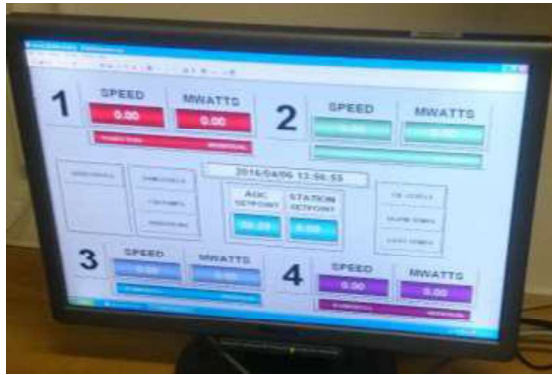
### **Alarming and Monitoring systems System Functional Description**

Supervisory Control and Data Acquisition (SCADA)

The Steenbras Power Station employs an Adroit (version 4.2) SCADA application which runs on PCs (personal computer) hardware located in both a server and a control room and is used for monitoring and recording of various Unit measured values and equipment states. The SCADA system also monitors the status of most plant auxiliaries (cooling water, switchgear statuses, and upper and lower dam water levels). Each Power Station Unit incorporates a Conlog Anaflex monitoring system for all analogue outputs from field instrumentation where each signal is processed for alarming and interlocking purposes.

The SCADA system only monitors measured values (analogue signals) and is not used for any alarming or interlocking.

All Anaflex cards per unit (and ancillaries) are connected on a twisted pair cable serial bus unique to Conlog called Conet. The bus network is connected to the SCADA master server located on the MD level within Steenbras shown in Photograph 41 . There are three SCADA clients connected to the master SCADA server via copper cabled Ethernet between the administration building floors (within the Control Room, Shift Superintendent's office, and Electronic Workshop), each with a mimic of the master server screen [3].



Apart from the SCADA system, the Steenbras Power Station makes use of two additional alarming systems, namely a Sequential Event Recorder [SER260] and the Steenbras Power Station Alarm Annunciation System named the SPANA system, all connected to conventional desk type alarm annunciator lamp matrices and analogue type displays.

#### SER260

The SER260 system is used for all unit alarms that arise and consist of a single master device, located in the control room behind the hydraulic mimic panel, and four slaves located within each MLCP.

All the alarm signals (from field Anaflex cards) and digital signals (from field instruments) for each unit is hardwired into a Mitsubishi Alarm PLC, from there the PLC determines alarm statuses and raises the required alarms. The alarms signals are outputs from the PLC into the SPANA system and into the SER260 slave (and annunciator panel on the MLPC) device.

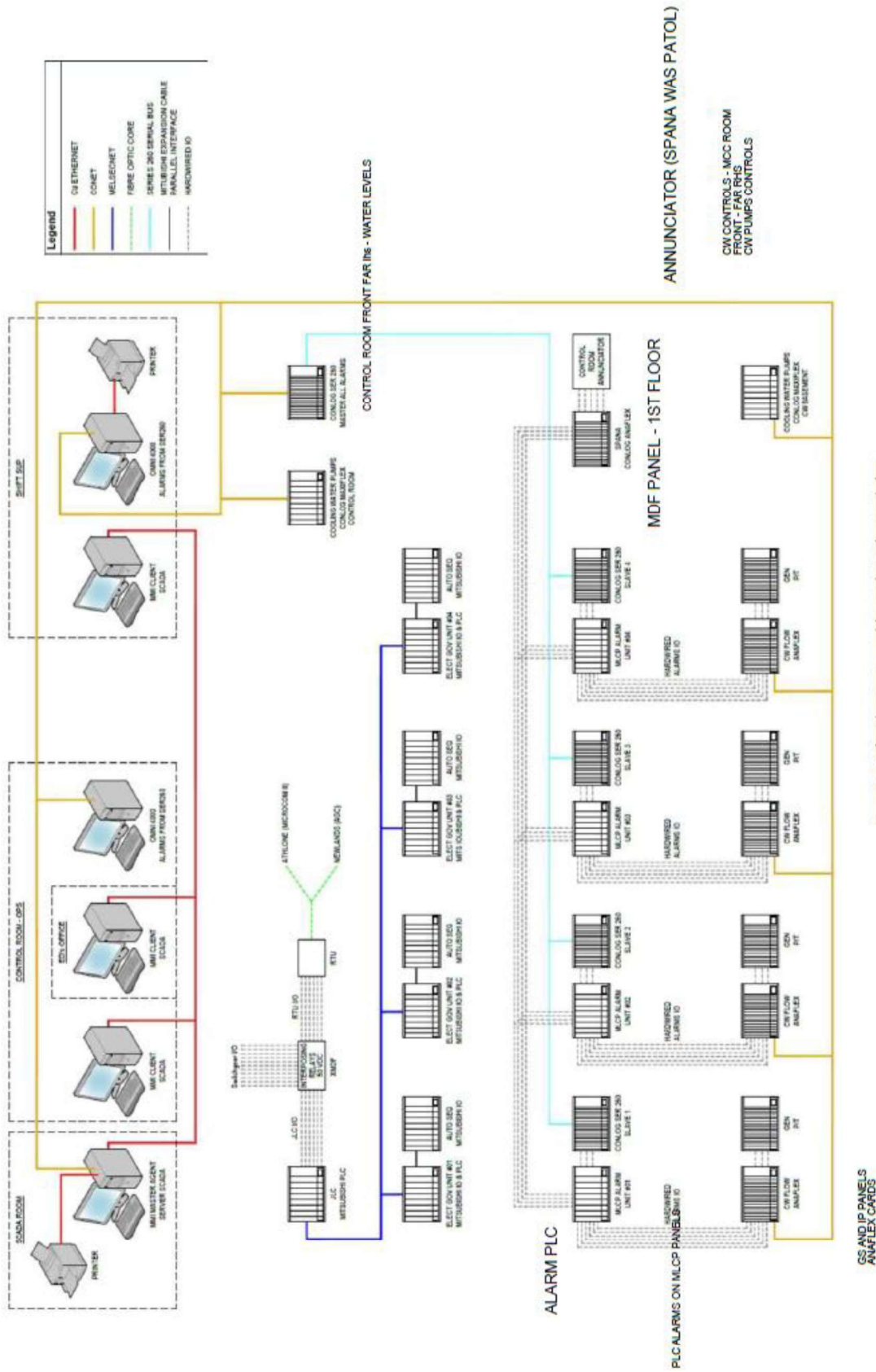
For the Emergency Generator, alarms are repeated from a local alarm annunciator to the SPANA system and processed through to the control room control desks. The SER260 slaves and master are connected using a serial bus unique to Conlog SER260 called SER260 serial bus. The SER260 system connects onto an electronic alarming and reporting system called the OMNI 4000 via the SER260 serial bus. There are two OMNI 4000 computers on site one located within the Shift Superintendents office and the other located within the Control Room. Should an alarm trip the Shift Superintendents and Plant Operator will be able to see exactly which alarm has been tripped and when it tripped.



Photograph 42: MLCP Alarming PLC



Photograph 38: System Control RTU Panel and Photograph 39: JLC & Electronic Governor of Unit 1



Making progress possible. Together.

# **ANNEXURE D – SALIENT POLE DRAWINGS**





**Schedule G:**

RETURNABLE SCHEDULE: DECLARATION OF TENDERED RATES SUBMITTED

CITY OF CAPE TOWN

ENERGY: GENERATION

Tender NO: 001S/2026/27

Tender Description: ELECTRICITY GENERATION GENERATOR AND ANCILLIARY SERVICES AND PARTS

SCHEDULE G: DECLARATION OF TENDERED RATES SUBMITTED

I, the undersigned, in submitting this tender for tender 001S/2026/27, in response to the invitation for the tender made by the City of Cape Town, do hereby make the following statements that I certify to be true and complete in every respect:

1. I have read and I understood the contents of this declaration and the provisions of Clause 2.2.1.1.1 of the Tender Data.
2. I acknowledge that, in terms of Regulation 22(4) of the Municipal Supply Chain Management Regulations (2005), "Where bids are requested in electronic format, such bids must be supplemented by sealed hard copies."
3. I understand that submission of an electronic (Excel) copy of the Pricing Schedule is optional and intended only as a data-capture aid to promote efficiency in evaluation.
4. I understand that while the printed schedule remains the official, binding submission, it is preferred and in the City's interest that the completed electronic (Excel) version be submitted as well, in the same format as issued by the Employer, to facilitate accurate and efficient evaluation.
5. Where an electronic copy is submitted, I certify that the printed and electronic versions are identical in every respect, and that no changes have been made to the structure, layout, or formulas of the issued schedule.
6. I understand and accept that, should any discrepancy arise between the printed (hard copy) and electronic versions, the printed copy shall prevail for all contractual and evaluation purposes.
7. I acknowledge that any addenda or Notice to Tenderers (NTT) affecting the Pricing Schedules must be incorporated in both versions of the schedule, and that such addenda will form part of the tender submission.
  
8. I understand that the electronic copy serves only as a data-capture aid for evaluation, and that failure to submit or corruption of the electronic file will not render the tender non-responsive, provided the printed schedule is complete and legible.

SIGNED ON BEHALF OF TENDERER: .....