



City Power Johannesburg

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Johannesburg 2016

[www.citypower.co.za](http://www.citypower.co.za)

**CITY POWER  
JOHANNESBURG**

Bidders are hereby invited for the following RFQ,  
Further details are available from CITY POWER,  
Tender Advice Centre, 40 Heronmere Rd, Reuven, Booysens  
Telephone 011 490-7000, Fax 011 870-3717  
CITY POWER JOHANNESBURG (SOC) LTD.

**ADVERTISEMENT**

**REQUEST FOR QUOTATION: SUPPLY AND DELIVERY OF MV PROXIMITY TESTERS 220V – 275KV  
(2523)**

REQUEST FOR QUOTATION:	11708347
RFQ CLOSING DATE:	19 November 2021
RFQ CLOSING TIME:	11h00am
SITE MEETING:	N/A
TIME FOR SITE MEETING	N/A
VENUE:	Tender Advice Centre
CONTACT PERSON:	Busisiwe Stone

**RFQ DOCUMENTS WILL BE AVAILABLE ON THE WEBSITE  
AS FROM 12 NOVEMBER 2021**

**SUBMISSIONS: QUOTATION BOX, TENDER ADVICE CENTRE**

**40 HERONMERE ROAD REUVEN, BOOYSENS**

**EMAILED or FAXED QUOTATIONS will not be ACCEPTED**

**Please note:-**

**That we also advertise on our Website:**

**Website Address: [www.citypower.co.za](http://www.citypower.co.za) Available Bid's and RFQ'S**

CP Reference Number: **11708347**  
 Contact Person: Busisiwe Stone  
 Tel: 011 490 7436  
 Fax: 011 870 3717  
 Email: bstone@citypower.co.za

**Company:** .....  
**Attention:** .....  
**Tel:** .....  
**Fax:** .....  
**Email:** .....

You are hereby invited to submit a quotation for the items listed below. Please provide a written quotation to the above named contact person on or before the closing date indicated below. Only quotations, which contain the information listed below, will be accepted. Prices should be shown inclusive of VAT, fixed, and firm. Delivery will be direct to the relevant City Power store.

Item No	Material/Service Description	Estimated Qty (Quantity may change at the time of placing an order)	Price per item (Each)	Total Excl. VAT
2523	Medium Proximity Non-Contact Voltage Tester, Voltage Range 220V to 275KV, Suitable to be used in conjunction with Telescopic Insulating Sticks, a universal rose adaptor connection, audible and visual indication.  <b>NB: COMPLETE ATTACHED SPECIFICATION CP_TSSPEC_122</b>  <b>Note:</b> Ticks, Cross [✓, X], Asterisk [*], Word [Noted or Comply] or TBA ["To Be Advice"] will not be accepted.	10		
<b>N.B: A sample may be requested before placing an order.</b>			Sub-Total	R
			VAT	R
			Total Incl. VAT	R

<b>Specification: CP_TSSPEC_122</b> <b>Stock Item No. 2523</b>	<b>Fully Compliant to Specification</b> <b>Fully Completed and signed</b>
---	--

**PLEASE SUPPLY THE FOLLOWING DOCUMENTS TO ENABLE US TO EVALUATE YOUR SUBMISSION:**

Returnable documents	Description	Yes/No	
1	Original Valid Tax Clearance Certificate		COMPULSORY
2	Provide <b>A VALID</b> and <b>CERTIFIED</b> B-BBEE Certificate <b>OR</b> Sworn Affidavit (Please note that the Sworn Affidavit must be compliant as per BBEE Practice Guide 01 of 2018)		
3	Completed and Signed MBD Forms (MBD4, MBD8 & MBD9)		COMPULSORY
4	CSD Supplier Number and Supplier Unique Number		COMPULSORY
5	Rates and taxes not older than 3 months		COMPULSORY

**EVALUATION CRITERIA: 70% THRESHOLD**

1. Technical Evaluation: 70% Threshold		Weight	Score 0 - 10
1.	Specification <b>CP_TSSPEC_122</b> to be completed in full, compliant & signed ( <b>SAP NO. 2523 ONLY</b> ) page 7 - 8  <b>Max score points = 10 points</b> Technical schedule fully completed, compliant and signed = <b>10 points</b> Technical schedule not fully completed, compliant and signed = <b>0 points</b>	40%	
2.	Provide a complete type-test report as per SANS 61243-1  <b>Max score points =10 points</b> Complete type-test report provided = <b>10 points</b> Incomplete or no type test report = <b>0 points</b>	40%	
3.	Provide a valid ISO 9001: Certificate from the Manufacturer  <b>Max score points =10 points</b> ISO 9001 certificate submitted = <b>10 points</b> No ISO 9001 certificate = <b>0 points</b>	20%	

Vendors must supply written quotations that reflect the following information on the quotation:

- Quotation Validity Period:.....
- Delivery period: .....
- Company Name:.....
- Company Registration Number:.....
- VAT Registration Number:.....
- Physical Address:.....
- Contact Person:.....
- Telephone Number:.....
- Fax Number/Email Address:.....
- Company Income Tax Number (i.e. SARS No):.....
- Tax Clearance Certificate Attached or consent for City Power to ascertain from SARS whether your status is in order: \_\_\_\_\_
- Signed disclaimer (Attached to this RFQ): \_\_\_\_\_

**PREFERENCE POINT SYSTEM WILL BE USED FOR VALUE OF BETWEEN R30K AND R200K**

**Points awarded for Price and RDP goals (80/20)**

<b>PRICE</b>	<b>80</b>
<b>BBBEE POINTS</b>	<b>20</b>
<b>TOTAL POINTS</b>	<b>100</b>

**CALCULATION**

**1. THE 80/20 PREFERENCE POINT SYSTEMS**

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

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

Where

$P_s$  = Points scored for price of bid under consideration

$P_t$  = Rand value of bid under consideration

**Disclaimer:** Supplier ( \_\_\_\_\_ ) hereby warrants that he/she/it has:

(Name of supplier)

1. Read, fully understood and hereby accept City Power's standard quotation Terms & Conditions as published on the official City Power website;
2. Submitted a true and accurate declaration of interests reflecting that the supplier has no immediate family relations and that none of its shareholders, directors, managers or stakeholders are in the employ of City Power or the state currently and that no such relatives, shareholders, directors, managers or stakeholders have been so employed in the previous 12 months;
3. Undertakes to complete a fresh declaration of interests should these circumstances have changed as at date of this quotation. (This declaration is obtainable from the City Power's website/ Commodity Managers and the abovementioned contact person).

## 2. Calculation of points for B-BBEE status level of contributor

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

Name, Date & Signature of Supplier (Person responsible for the Quote)	Name:	Date
	Signature:	

## DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state<sup>1</sup>.

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 bidder 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 bidder 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 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. ....

.....

<sup>1</sup>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) a 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.

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 bidder 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:

.....  
.....

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

Full Name	Identity Number	State Employee Number

.....  
Signature

.....  
Date

.....  
Capacity

.....  
Name of Bidder



**DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES**

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
  - a. abused the municipality's / municipal entity's supply chain management system or committed any improper 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).
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (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).  <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>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? <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>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors 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?	Yes <input type="checkbox"/>	No <input type="checkbox"/>

4.3.1	If so, furnish particulars:		
<b>Item</b>	<b>Question</b>	<b>Yes</b>	<b>No</b>
4.4	Does the bidder 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"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder 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"/>
4.7.1	If so, furnish particulars:		

#### **CERTIFICATION**

**I, THE UNDERSIGNED (FULL NAME) .....CERTIFY THAT THE INFORMATION FURNISHED ON THE DECLARATION FORM TRUE AND CORRECT. I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.**

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**

# **CERTIFICATE OF INDEPENDENT PROPOSAL DETERMINATION**

I, the undersigned, in submitting the accompanying proposal:

---

(Proposal Number and Description)

in response to the invitation for the proposal made by:

---

(Name of Municipality / Municipal Entity)

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

I certify, on behalf of: \_\_\_\_\_ that:  
(Name of Bidder)

2. I have read and I understand the contents of this Certificate;
3. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
4. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
5. Each person whose signature appears on the accompanying proposal has been authorized by the bidder to determine the terms of, and to sign, the proposal, on behalf of the bidder;
6. For the purposes of this Certificate and the accompanying proposal, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
  - (a) have been requested to submit a bid in response to this proposal invitation;
  - (b) could potentially submit a proposal in response to this proposal invitation, based on their qualifications, abilities or experience; and
  - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
7. The bidder has arrived at the accompanying proposal independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
8. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
  - (a) prices;
  - (b) geographical area where product or service will be rendered (market allocation)

- (c) methods, factors or formulas used to calculate prices;
- (d) the intention or decision to submit or not to submit, a proposal;
- (e) the submission of a proposal which does not meet the specifications and conditions of the proposal; or
- (f) bidding with the intention not to win the proposal.

9. 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 proposal invitation relates.

10. The terms of the accompanying proposal have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to proposal and contracts, proposal that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder

**CERTIFICATION**

**I, THE UNDERSIGNED (NAME)** .....

**CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.**

**I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.**

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder



a world class African city



TITLE	SPECIFICATION FOR A MEDIUM/ HIGH VOLTAGE PROXIMITY TESTERS	REFERENCE	REV
		CP_TSSPEC_122	3
		DATE:	MAY 2018
		PAGE: 1	OF 22

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**SPECIFICATION FOR MEDIUM/HIGH  
VOLTAGE PROXIMITY TESTERS**

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**FOREWORD**

Recommendations for corrections, additions or deletions should be addressed to the:

Technology Services General Manager

City Power Johannesburg (SOC) Ltd

P O Box 38766

Booyens

2016

## INTRODUCTION

The importance of the safety and reliability of test equipment is crucial in terms of operator safety. It is therefore important to ensure that test equipment complies with the required specifications and is of acceptable quality. In all cases, preference shall be given to the utilisation of voltage detectors in accordance with SANS 61243-1. However, the need for high, medium and non-contact (or proximity) testers in certain applications has been identified. The use of any voltage tester shall be in accordance with the relevant standards and safe work procedures.

## 1. SCOPE

This specification covers City Power's requirements for high and medium voltage proximity testers.

## 2. NORMATIVE REFERENCES

The following documents contain provisions that, through reference in the text, constitute requirements of this specification. At the time of publication, the editions indicated were valid. All standards and specifications are subject to revision, and parties to agreements based on this specification are encouraged to investigate the possibility of applying the most recent editions of the documents listed below.

SANS 61243-1, *Live working – voltage detectors – Part 1: Capacitive type to be used for voltages exceeding 1 kV AC*

## 3. DEFINITIONS AND ABBREVIATIONS

The definitions and abbreviations in the above documents shall apply to this specification.

## 4. REQUIREMENTS

### 4.1 General

4.1.1 The high and medium voltage proximity testers shall *generally* comply with SANS 61243-1

4.1.2 The high and medium proximity testers shall be suitable for detecting and indicating the presence of nominal voltages of 230 V, 400 V, 6.6 kV, 11 kV, 20.5 kV, 22 kV and 33 kV, 66kV, 88 kV, 132 kV and shall be rated for use at 275 kV. The testers shall be supplied as a single device (i.e. one detector to test the full range of voltages required).

**Note:** The 20.5 and 22 kV ranges may be combined, depending on the device. Notwithstanding this provision, the presence of both voltages must be reliably indicated by the device.

4.1.3 The high and medium voltage proximity testers shall have a voltage range selector.

4.1.4 The voltage proximity testers shall have a universal rose adaptor connection to enable them to be used in conjunction with telescopic and fixed insulating sticks.

4.1.5 The high and medium voltage proximity testers shall be suitable for operation under wet conditions.

4.1.6 The testers shall indicate the presence of voltage and shall have both visual and audio indication of the presence of voltage.

4.1.7 The testers shall be battery-operated and shall have a self-diagnostic facility to check the status of the battery as well as correct operation of the unit. In addition, the testers shall be in permanent standby mode for increased safety (i.e. the testers do not have to be manually activated but are automatically activated by the presence of voltage).



4.1.8 If required, a test unit (or reference generator) shall be supplied so that the correct operation of the unit can be verified. The reference generator shall be capable of generating an electric field in accordance with the range of the tester.

4.1.9 The testers shall be physically small as the testers will be used as personal testers.

4.1.10 The battery used shall be a standard cell which is readily and commercially available.

## **5. TESTS**

The testers shall have been tested in accordance with the requirements of SANS 61243-1.

## **6. MARKING AND PACKAGING**

6.1 In addition to the requirements of SANS 61243-1 the live testers shall be marked with the nominal voltage(s) for which they are designed.

6.2 All units shall be supplied with a protective carrying case to ensure mechanical protection of the device during transport.

6.3 Each unit shall be supplied with a comprehensive user manual.

## **7. DOCUMENTATION**

7.1 Detailed test reports confirming compliance with SANS 61243-1 shall be provided.

7.2 In addition to the documentation required above, full technical information relating to the performance, construction, operation, etc of the proximity testers shall be supplied.

## **8. TRAINING**

8.1 The following certified training course shall be offered for City Power's staff:

a) Operating and use of the testers.

8.2 The associated costs for the certified training course in 8.1 shall be given per person and shall be fixed for the period of the contract.

## **9. QUALITY ASSURANCE**

A quality management plan shall be set up in order to assure the proper quality management of the high and medium voltage proximity testers during design, development, production, installation and servicing phases. Guidance on the requirements for a quality management plan may be found in the ISO 9001. The details shall be subject to agreement between City Power and Supplier.

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## **ANNEXURE A - BIBLIOGRAPHY**

eThekwini Electricity specification for proximity testers.

**ANNEXURE B - REVISION INFORMATION**

DATE	REV. NO.	NOTES
May 2004	0	First issue
January 2010	1	Updated new list of members  Edited Clause No. 9. Quality Assurance  Change SABS IEC to SANS  Change Medium voltage proximity testers to Medium/High voltage proximity testers  4.1.2. Voltage ranges have been extended to 275 kV. ie. 230 V, 400 V, 6.6 kV, 11kV, 20.5kV, 22kV, 33kV, 36kV, 66kV, 132 kV rated for 275 kV.
JUNE 2017	2	GENERAL EDITING  Added Stock Item (5578): VOLTMETER:110-750,0.15A, 2 Prong  Added Technical Schedule for Stock Item (5578)
MAY 2018	3	Remove Voltmeter: 110-750, 0.15 2 Prong Updated study committee Added 25 KV Insulation Tester Spiking Gun Cable Identification

## ANNEXURE C – TECHNICAL SCHEDULE A and B

### ITEM 1- PROXIMITY NON-CONTACT VOLTAGE TESTER SAP (2523)

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_122	Description	Schedule A	Schedule B
1		Name of manufacturer	XXXX	
2		Place of manufacture	XXXX	
3		Manufacturer's identification reference	XXXX	
4	4.1.1	Specification to which MV/HV proximity testers comply	SANS 61243-1	
5	4.1.2	Nominal system voltage <span style="float: right;">kV</span>	0.23, 0.4, 6.6, 11, 20.5, 22, 33, 66, 132 and 275	
6	4.1.2	Rated voltage of testers <span style="float: right;">kV</span>	275	
7	4.1.3	Voltage range selector <span style="float: right;">Yes/No</span>	Yes	
8	4.1.4	Insulating stick attachment	Universal rose adaptor	
9	4.1.5	Application suitability <span style="float: right;">Yes/No</span>	Yes	
10	4.1.5	Voltage indication	Visual and audio	
11	4.1.7	Functionality check	Self-diagnostic	
12	4.1.10	Battery type	XXXX	
13	7	Documentation supplied? <span style="float: right;">Yes/No</span>	Yes	
14	6	Marking as per clause 6 <span style="float: right;">Yes/No</span>	Yes	
15	6	Packing as per clause 6 <span style="float: right;">Yes/No</span>	Yes	

**Note: Ticks, Cross [√, X], Astrick [\*], Word [Noted] or TBA ["To Be Advice"] will not be accepted**

Tender Number: \_\_\_\_\_

Tenderer's Authorised Signatory: \_\_\_\_\_  
Name in block letters                      Signature

Full name of company: \_\_\_\_\_

**SPECIFICATION FOR MEDIUM/HIGH  
VOLTAGE PROXIMITY TESTERS**

REFERENCE

REV

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**TECHNICAL SCHEDULE A and B**

**ITEM 1- PROXIMITY NON-CONTACT VOLTAGE TESTER SAP (2523)**

**DEVIATION SCHEDULE**

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Clause	Proposed deviation

**Note: Ticks, Cross [✓, X], Astrick [\*], Word [Noted] or TBA ["To Be Advice"] will not be accepted**

Tender Number: \_\_\_\_\_

Tenderer's Authorised Signatory: \_\_\_\_\_  
Name in block letters Signature

Full name of company: \_\_\_\_\_

**Annex C – TECHNICAL SCHEDULES A and B (SAP 2521)**

**ITEM 2: MEDIUM VOLTAGE LINE CONTACT TESTER (MVLCT-  
6.6-36 KV)**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_122	Description	Schedule A	Schedule B
1		Name of manufacturer	XXXX	
2		Place of manufacture	XXXX	
3		Manufacturer's identification reference	XXXX	
4	4.1.1	Specification to which MV live testers comply	SANS 61243-1	
5	4.1.2	Nominal system voltage kV	6,6 to 33	
6	4.1.2	Rated voltage of testers kV	12 and/or 36	
7	4.1.4	Application suitability Yes/No	Yes	
8	4.1.3	Insulating stick attachment	Universal rose adaptor	
9	4.1.5	Voltage indication	Visual and audio	
10	4.1.6	Functionality check	Self- diagnostic	
11	4.1.7	Removable electrodes supplied	Probe, V- and resin- insulated types	
12		IP rating of testers	IP 54	
13	4.1.8	Insulating stick required? Yes/No	Yes	
14	4.1.8	Specification to which insulating stick complies (if applicable)	IEC 60832	
15	4.4.2	Certified copy of type test provided with documentation Yes/No	Yes	
16	4.3.1	Marking as per clause 4.3.1 Yes/No	Yes	
17	4.3.2	Packing as per clause 4.3.2 Yes/No	Yes	

**Note: Ticks, Cross [✓, X], Astrick [\*], Word [Noted] or TBA ["To Be Advice"] will not be accepted**

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**SPECIFICATION FOR MEDIUM/HIGH  
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**TECHNICAL SCHEDULES A and B  
ITEM 2: MEDIUM VOLTAGE LINE CONTACT TESTER ( MVLCT)-6.6-36 KV (SAP  
2521)**

**Deviation schedule**

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub-clause of CP_TSSPEC_048	Proposed deviation

**Note: Ticks, Cross [√, X], Astrick [\*], Word [Noted] or TBA ["To Be Advice"] will not be accepted**

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## Annex C – TECHNICAL SCHEDULES A and B (SAP 2522)

### ITEM 3: HIGH VOLTAGE LINE CONTACT TESTER (HVLCT-88KV-275V)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub-clause of CP_TSSPEC_122	Description	Schedule A	Schedule B
1		Name of manufacturer	XXXX	
2		Place of manufacture	XXXX	
3		Manufacturer's identification reference	XXXX	
4	4.1.1	Specification to which HV live testers comply	SANS 61243-1	
5	4.1.2	Nominal system voltage	88 & 275	
6	4.1.2	Rated voltage of testers	at least 275	
7	4.1.3	Insulating stick attachment	Universal rose adaptor	
8	4.1.4	Application suitability	Yes	
9	4.1.5	Voltage indication	Visual and audio	
10	4.1.6	Functionality check	Self-diagnostic	
11	4.1.7	Removable electrodes supplied	Probe and V types	
12		IP rating of testers	IP 54	
13	6.1	Marking as per clause 6.1	Yes	
14	6.2	Packing as per clause 6.2	Yes	
15	7	Certified copy of type test provided with documentation	Yes	

**Note: Ticks, Cross [√, X], Astrick [\*], Word [Noted] or TBA ["To Be Advice"] will not be accepted**

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**TECHNICAL SCHEDULES A and B (SAP 2522)  
ITEM 3: HIGH VOLTAGE LINE CONTACT TESTER (HVLCT-88KV-275V)**

**Deviation schedule**

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub-clause of CP_TSSPEC_122	Proposed deviation

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**Annex C: ITEM 4- TECHNICAL SCHEDULES A and B 25 KV DC  
PRESSURE TEST  
(SAP 4073)**

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_122	Description	Schedule A	Schedule B
1		Name of manufacturer	XXXX	
2		Place of manufacture	XXXX	
3		Manufacturer's identification reference	XXXX	
4	4.1.1	Specification to which HV live testers comply	SANS 61243-1	
5	4.1.2	Connection energy	V 110V	
6	4.1.2	Output voltage	kV 0-5KV and 0- 25KV DC neg	
7	4.1.3	Voltage measuring ranges analogue	5/25	
8	4.1.4	Current delivery at nominal voltage	1 mA	
9	4.1.5	Short circuit current	3mA	
10	4.1.6	Current measuring ranges analogue	1µ/10µ/100µ/1 mA /10mA	
11	4.1.7	Smallest reading current	50nA	
12		Relative humidity	Not condensing	
13	6.1	Ambient temperature	Working 0 to 45 deg C	
			Storage: -20 to 60 deg C	
14	6.2	Current supply	12V,6.5 Ah	
15	7	Operating time with battery at 2/3 load	Yes/No Approx. 30 min	
16		Discharge energy: 10min recovery time between 2 discharges	Max. 3000 Ws ( 9,6 µF/ 25 KV	
		20 Min recovery time between 2 discharges	Max. 5000 Ws (16 µF/25 KV)	
17		Dimensions ( W x H x D )	Approx. 415 x140 x 360 mm	

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<b>18</b>		Weight	Approx. 16,5 kg	
<b>19</b>		Accessories	High voltage test set without accessories  HV connection cable, 2,6 m long with ground terminal 24 mm wide  Leather bag for HVconnection cable  Mains connection cable  Operational manual	

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**Technical schedules A and B 25KV- DC PRESSURE TEST (SAP 4073)**

**Deviation schedule**

**Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.**

<b>Item</b>	<b>Sub-clause of CP_TSSPEC_122</b>	<b>Proposed deviation</b>

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## Annex C -ITEM 5: TECHNICAL SCHEDULES A and B CABLE IDENTIFICATION (SAP 4074)

Schedule A: Purchaser's specific requirements

Schedule B: Guarantees and technical particulars of equipment offered

Item	Sub-clause of CP_TSSPEC_122	Description	Schedule A	Schedule B
1		Name of manufacturer	XXXX	
2		Place of manufacture	XXXX	
3		Manufacturer's identification reference	XXXX	
4	4.1.1	Pulse voltage: 55 VDC	55	
5	4.1.2	Pulse current max: 100 A	100 A	
6	4.1.2	Pulse sequence: 30 / min	30/ min	
7	4.1.3	Pulse width: 72 ms	72 ms	
8	4.1.4	Power supply: 100 ... 240 VAC; 50 / 60 Hz	Required	
		12 VDC rechargeable battery	12	
9	4.1.5	Operating time: 4 h ion rechargeable battery	4	
10	4.1.6	Charging time: 6 h	6	
11	4.1.7	Weight: 1.6 kg	xxxxxx	
12		Dimensions: 201 x 120 x 80 mm	Xxxxxx	
13	6.1	Protection class: IP 54	xxxxxxx	
14	6.2	Operating/storage temperature: - 10 °C ... + 60 °C	xxxxxx	
15	7	Operating humidity: Max. relative humidity 93 % at 30 °C	xxxxxx	
		<b>Receiver</b>		
16		Sensor: 230 mm Flex-Coupler	xxxxx	
17		Amplifier setting: 10 steps; 3 ... 24 dB	Xxxxx	
18		Power supply: 2 x 1.5 V AA batteries	xxxxx	
19		Operating time: > 50 h	xxxxx	
10		Weight: 0.4 kg	xxxxxx	
11		Dimension: 150 x 65 x 35 mm	xxxxx	
12		Protection class: IP 54	54	
13		Operating/storage temperature: - 10 °C ... + 6 °C	xxxxx	
14		Operating humidity: Max. Relative humidity 93 % at 30 °C	xxxxx	
15		Twist Field Sensor		

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**ITEM 5: TECHNICAL SCHEDULES A and B: CABLE IDENTIFICATION  
(SAP 4074)**

**Deviation schedule**

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Sub-clause of CP_TSSPEC_122	Proposed deviation

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## ANNEXURE C – TECHNICAL SCHEDULE A and B

### ITEM 6-CABLE SPIKING GUN TESTER SAP (4075)

**Schedule A: Purchaser's specific requirements**

**Schedule B: Guarantees and technical particulars of equipment offered**

Item	Sub-clause of CP_TSSPEC_122	Description	Schedule A	Schedule B
1		Name of manufacturer	XXXX	
2		Place of manufacture	XXXX	
3		Manufacturer's identification reference	XXXX	
4		Clamp Cable Diameter 100 mm	100	
5		Operator safety distance 10 m	10	
6		Chisel 30 mm	30	
7		Load chisel and cartridge into bottom portion of the gun	xxxxx	
8		Clamp bottom portion of the gun	xxxxx	
9		Ensure area is clear of person and equipment	Yes	
10		Fire Gun with Lanyard	xxxxx	
13		Documentation supplied? Yes/No	Yes	
14		Marking as per clause 6 Yes/No	Yes	
15		Packing as per clause 6 Yes/No	Yes	

**Note: Ticks, Cross [✓, X], Astrick [\*], Word [Noted] or TBA ["To Be Advice"] will not be accepted**

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**TECHNICAL SCHEDULE A and B**

**ITEM 6- CABLE SPIKING GUN TESTER SAP (4075)**

**DEVIATION SCHEDULE**

Any deviations offered to this specification shall be listed below with reasons for deviation. In addition, evidence shall be provided that the proposed deviation will at least be more cost-effective than that specified by City Power.

Item	Clause	Proposed deviation

Tender Number: \_\_\_\_\_

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## ANNEXURE D – STOCK ITEMS

### Material Group: Test Equipment

Item	SAP No.	SAP Short Description	SAP Long Description
1.	2523	PROXIMIT TETERS – 220V- 275KV	PROXIMITY NON CONTACT VOLTAGE TESTER, VOLTAGE RANGE 220V TO 275KV, SUITABLE TO BE USED IN CONJUCTION WITH TELESCOPIC INSULATING STICKS, A UNIVERSAL ROSE ADAPTOR CONNECTION, AUDIBLE AND VISUAL INDICATION. ITEM SPECIFICATION. CP_TSSPEC_122
2	2521	MVLCT – 6.6KV- 36KV	MEDIUM VOLTAGE LIVE CONTACT TESTER, VOLTAGE RANGE 6.6KV TO 36KV, SUITABLE TO BE USED IN CONJUCTION WITH TELESCOPIC, FIXED INSULATING STICKS AND A UNIVERSAL ROSE ADAPTOR CONNECTION. ITEM SPECIFICATION. CP_TSSPEC_122
3.	2522	HVLCT – 88KV- 275KV	HIGH VOLTAGE LIVE CONTACT TESTER, VOLTAGE RANGE 88KV TO 275KV, SUITABLE TO BE USED IN CONJUCTION WITH TELESCOPIC INSULATING STICKS AND A UNIVERSAL ROSE ADAPTOR CONNECTION.ITEM SPECIFICATION. CP_TSSPEC_122
4	4073	INSULATION 25 KV DC NEGATIVE, 110 VA	INSULATION 25KV, CABLE 2.6 MM LONG, WITH GROUND TERMINAL 24 MM: ITEM SPECIFICATION. CP_TSSPEC_122
5	4074	CABLE IDENTIFIER Tx Rx CLIP ON CABLE	CABLE IDENTIFICATION TRANSMITTER RECEIVER CLIP ON OF LIVE CABLES BEFORE CUT: ITEM SPECIFICATION CP_TSSPEC_122
6	4075	CABLE SPIKING TESTER	CABLE SPIKING GUN, CLAMP DIAMETER CABLE 100 MM, SAFE OPERATOR DISTANCE 10 METRES, WITH 30 MM CHIASSEL:ITEM SPECIFICATION.CP_TSSPEC_122