



RUSTENBURG LOCAL MUNICIPALITY

RLM/DTIS/0013/2020/21 - RE-ADVERT: APPOINTMENT OF A SERVICE PROVIDER FOR THE SUPPLY AND DELIVERY A HIGH VOLTAGE TEST MACHINE AND EQUIPMENT (THUMPER)

PARTICULARS OF THE BIDDER	
NAME OF THE BIDDING OR TENDERING COMPANY	
POSTAL ADDRESS	
	<div>POSTAL CODE</div> <div></div>
STREET ADDRESS (PHYICAL ADDRESS)	
	<div>POSTAL CODE</div> <div></div>
E-MAIL ADDRESS	
TELEPHONE NUMBER (TELKOM LINE)	
CIDB CRS NUMBER (IF APPLICABLE)	
CELLPHONE NUMBER	
ALTERNATE CELLPHONE NO.	
CENTRAL SUPPLIER DATABASE NUMBER OF THE BIDDING COMPANY	



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DOCUMENT COMPLETION INSTRUCTION AND RETURNABLE DOCUMENTS SCHEDULE

CENTRAL SUPPLIER DATABASE REGISTRATION (CSD)

- ✓ Bidders must be registered on CSD and provide their registration number on the tender/ quotation document

COMPLETION OF THE DOCUMENT

PLEASE READ AND FOLLOW INSTRUCTIONS BELOW ON HOW TO COMPLETE DIFFERENT FORMS IN THE DOCUMENT AND FILL THEM AS INSTRUCTED

- ✓ The tender documents must be completed in full i.e. Compulsory Questionnaire, MBD 1, Pricing Schedule, MBD 4, MBD 5, MBD 6.1, MBD 7.2, MBD 8, MBD 9, Section 38 and the Form of Offer, including all witness signatures on all the above stated forms.
- ✓ ***NB! FAILURE TO ADHERE TO THE BELOW MENTIONED POINTS WILL INVALIDATE THE TENDER AND RESULT IN DISQUALIFICATION***
- **COMPULSORY QUESTIONNAIRE** must be fully completed and signed
In a case of Joint Venture separate COMPULSORY QUESTIONNAIRE forms must be completed and submitted.
 - **MBD 1** must be fully completed and signed
 - **PRICING SCHEDULE** must be fully completed and signed
 - **MBD 4** -only tick the appropriate answer. Please be informed that whether you scratch out, tick or circle, **your answer will be where the pen ink is reflecting.**
In a case of Joint Venture or multi- directors, full details of all Directors must be provided on the table on MBD 4.
 - **MBD 5** -only tick the appropriate answer. Please be informed that whether you scratch out, tick or circle, **your answer will be where the pen ink is reflecting.**
 - ***In a case of Joint Venture separate MBD 5 forms must be completed and submitted.*** (complete if applicable)
 - **MBD 6.1** – must be fully completed.
 - **MBD 7.2** must be fully completed.
 - **MBD 8** - only tick the appropriate answer box, whether you scratch out, tick or circle, your answer will be where the pen ink is reflecting
 - **MBD 9** - must be fully completed and signed



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- **SECTION 38** - only tick the appropriate answer box, whether you scratch out, tick or circle, your answer will be where the pen ink is reflecting. Must be fully completed and signed, including signatures of witnesses.
- Note that should you answer “**NO**” to any of the declaration questions on **section 38 form**, then supporting documents **MUST** be attached
- **SIGNATORY AUTHORISATION** – complete and sign the form
- The document must not be dismantled; page numbers must be sequential

THE FOLLOWING MANDATORY DOCUMENTS MUST BE SUBMITTED TOGETHER WITH THE BID DOCUMENT

- ✓ Deposit slip with tender reference number as stipulated in the tender document.
- ✓ CSD report
- **FOR ALL DOCUMENTS THAT WILL NEED CERTIFICATION (AND AFFIDAVITS WHERE APPLICABLE) BIDDERS ARE REQUESTED NOT TO SUBMIT COPIES OF CERTIFIED COPIES.**
- ✓ A valid and certified (not older than (3) three months on the date of tender closure) BBBEE Certificate for the company (if it is a JV the BBBEE must be consolidated)

MUNICIPAL RATES AND TAXES STATEMENTS OF THE DIRECTORS

- ✓ Current municipal rates and taxes statement (from previous billable month) for each directors' address must be attached; or
- ✓ Valid lease agreement of the director/s with all critical contractual obligations or,
- ✓ An original letter from tribal authority not older than three (3) months if the director/s are residing in a tribal land, or
- ✓ If the rates and taxes account is not in the names of the director/s the attached municipal rates and taxes statement must be submitted together with an original affidavit from the property owner whose names are appearing on the municipal rates and taxes statement to confirm that the director resides in their property.

MUNICIPAL RATES AND TAXES STATEMENTS OF THE COMPANY

- ✓ Current municipal rates and taxes statement (from previous billable month) for the company's' address must be attached; or
- ✓ Valid lease agreement of the company (showing all critical contractual obligations, or



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- ✓ An original letter from a tribal authority not older than three (3) months if the company is operating from a tribal, or
- ✓ If the rates and taxes account is not in the names of the company, the attached municipal rates taxes statement must be submitted together with an original affidavit from the property owner whose names are reflecting on the municipal rates and taxes statement to confirm that the company operates from their property.

NB!!

- ✓ **FOR PROCUREMENT EXPECTED TO BE LESS THAN 10 MILLION, AWARDS WILL NOT BE MADE TO BIDDERS OWING MUNICIPAL RATES AND TAXES FOR OVER 90 DAYS AT THE TIME OF TENDER CLOSURE**
- ✓ **FOR PROCUREMENT EXPECTED TO BE MORE THAN 10 MILLION, AWARDS WILL NOT BE MADE TO BIDDERS OWING MUNICIPAL RATES AND TAXES FOR OVER 30 DAYS AT THE TIME OF TENDER CLOSURE**
- ✓ Required CIDB Grading Certificate where applicable
- ✓ Signatory resolution – Please attach a copy of Signatory resolution where instructed
- ✓ If the submission is from a Joint Venture, then a JV agreement must be attached

VERIFICATION OF DOCUMENTS AND INFORMATION.

- ✓ Tax compliance status will be verified using CSD number. (For a bidder to be considered for final award, their status must reflect “tax compliance” before final award is made)
- ✓ CIDB Grading will be verified
- ✓ BBBEE certificates will be verified with relevant registration bodies.
- ✓ Sworn Affidavits will be accepted only if its originals submitted.

ALLOCATION OF BBBEE POINTS

- ✓ No points will be allocated for a BBBEE certificate that is a copy of a certified copy or not that is not certified.
- ✓ No points will be allocated if the attached sworn affidavit (BBBEE) is a copy.

INSTRUCTION ON THE SUBMISSION OF TENDER DOCUMENTS

- ✓ A tender document must be in a sealed document that has on the outside the bid number and bid description. Both the bid number and the bid description must be on the envelope for the document to be acceptable.
- ✓ If the bid number and description are not clearly marked on the envelope, the bid will be received
- ✓ The tender document must be in the tender box before the specified closing time and date.
- ✓ Bidders who arrive when the tender box is open are late.
- ✓ Failure to comply with the above will lead to the bid not being opened.



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1. Bid documents available at a non-refundable amount of R 1000-00 per bid document are available on the e-tender website and must be downloaded.
2. A compulsory briefing session will not be held.
3. Sealed bid documents marked: **“Administrative evaluation (document completion and attachment of mandatory documents), Consideration of the market analysis and 80/20 preferential point system (price = 80 & BBEE points = 20)”** must be placed in the bid box in the foyer of the Municipal offices, Missionary Mpheni House, Beyers Naude Drive, Rustenburg not later than **13 June 2022 @ 11H00**, where after the bids will be opened in public at the Municipal offices.
4. Please note that no bid documents given to couriers will not be signed for by Rustenburg Local Municipality.
5. The Council will not be responsible for bids not received or received late by mail. Bids will remain valid for 90 days (Ninety).
6. All bids will be adjudicated based on the prescribed criterion as stipulated in the document.
7. An updated record of payment of rates, taxes and services to the relevant Municipality must be attached. Failure to do so will invalidate the bid submitted
8. No bids will be considered from any person(s) in the service of the state (as defined in Regulation 1 of Local Government: Municipal Supply Chain Management Regulations).
9. Objections or complaints must be submitted in writing to the Municipal Manager at the address stated, and must contain the following:
 - (a) reasons and/or grounds for the objection or complaint.
 - (b) the way in which the objector or complainant's rights have been affected; and
 - (c) the remedy sought by the objector or complainant.
10. Any objection or complaint must reach the Municipal Manager with a 14-day period after award has been made. Late objections or complaints will not be entertained.
11. All bids must be submitted on the official forms provided and a successful bidder will be required to fill and sign a written Contract Form (MBD 7).

RUSTENBURG LOCAL MUNICIPALITY
P.O. BOX 16
MISSIONARY MPHENI HOUSE



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TENDERING CONDITIONS

1. The document must be completed in full as per the guide provided under administrative evaluation - document completion.
2. All mandatory documents must be attached as per the guide under administrative evaluation - attachment of mandatory documents.
3. The document must not be dismantled; page numbers must be sequential.
4. Bidders must submit both a hard copy document and an electronic tender document in the form of a clearly marked CD or USB for Consideration.
5. Bidders must be registered on CSD.
6. For all documents that will need certification (and affidavits where applicable) bidders must not submit copies/ copies of certified copies.
7. Only black pen ink must be used when completing the tender document.
8. Electronic signatures are not allowed.
9. Bidders are not allowed to use correction pens. In a case where a wrong answer is ticked, a straight line must be made across the wrong answer, then initial next to the mistake and a correct answer must be ticked or provided in writing.

NB! FAILURE TO ADHERE TO THE ABOVE INSTRUCTIONS WILL RENDER THE TENDER INVALID AND RESULT IN DISQUALIFICATION



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ADMINISTRATIVE EVALUATION (DOCUMENT COMPLETION)

PLEASE READ AND FOLLOW INSTRUCTIONS BELOW ON HOW TO COMPLETE DIFFERENT FORMS IN THE DOCUMENT AND FILL THEM AS INSTRUCTED

- ✓ The tender documents must be completed in full i.e. Compulsory Questionnaire (where applicable), MBD 1, MBD 4, MBD 5, MBD 6.1, MBD 7.2, MBD 8, MBD 9, Section 38, Signatory Resolution Form, Pricing Schedule, and the Form of Offer, including all witness signatures on all the above stated forms.

- ✓ ***NB! FAILURE TO ADHERE TO THE BELOW MENTIONED POINTS WILL INVALIDATE THE TENDER AND RESULT IN DISQUALIFICATION***
 - **COMPULSORY QUESTIONNAIRE** must be fully completed and signed (**where applicable**)
*In a case of Joint Venture separate **COMPULSORY QUESTIONNAIRE** forms must be completed and submitted.*
 - **MBD 1** must be fully completed and signed
 - **MBD 4** - must be fully completed and signed: only tick the appropriate answer. Please be informed that whether you scratch out, tick or circle, **your answer will be where the pen ink is reflecting.**
In a case of Joint Venture or multi- directors, full details of all directors / trustees / shareholders / members must be provided on the table on MBD 4.
 - **MBD 5 (where applicable)** must be fully completed and signed: - only tick the appropriate answer. Please be informed that whether you scratch out, tick or circle, **your answer will be where the pen ink is reflecting.** *In a case of Joint Venture separate **MBD 5** forms must be completed and submitted.*
 - **MBD 6.1** – must be fully completed and signed.
 - **MBD 7.2** must be fully completed and signed.
 - **MBD 8** - must be fully completed and signed: only tick the appropriate answer box, whether you scratch out, tick or circle, your answer will be where the pen ink is reflecting
 - **MBD 9** - must be fully completed and signed
 - **SECTION 38** - must be fully completed and signed: only tick the appropriate answer box, whether you scratch out, tick or circle, your answer will be where the pen ink is reflecting. Note that should you answer “**NO**” to any of the declaration questions on **section 38 form**, then supporting documents **MUST** be attached
 - **SIGNATORY AUTHORISATION** – must be fully completed and signed
 - **PRICING SCHEDULE** must be fully completed and signed



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ADMINISTRATIVE EVALUATION (ATTACHMENT OF MANDATORY DOCUMENTS)

- ✓ Deposit slip with tender reference number as indicated on the advert
- ✓ Proof of CSD registration (CSD report)
- ✓ Required CIDB Grading Certificate (where applicable)
- ✓ Signatory resolution – Please attach a copy of Signatory resolution where instructed
- ✓ If the submission is from a Joint Venture, then a JV agreement must be attached
- ✓ A valid and certified (not older than (3) three months on the date of tender closure) BBBEE Certificate for the company (if it is a JV the BBBEE must be consolidated)

FOR ALL DOCUMENTS THAT WILL NEED CERTIFICATION (AND AFFIDAVITS WHERE APPLICABLE) BIDDERS MUST NOT SUBMIT COPIES/ COPIES OF CERTIFIED COPIES.

MUNICIPAL RATES AND TAXES STATEMENTS OF THE DIRECTORS

- ✓ Municipal rates and taxes statement of the last billable month on the date of tender closure for each directors' address must be attached; or
- ✓ Valid lease agreement of the director/s (showing lease period) or,
- ✓ An original letter (not a copy) from tribal authority not older than three (3) months if the director/s are residing in a tribal land, or
- ✓ If the rates and taxes account are not in the names of the director/s the attached municipal rates and taxes statement must be submitted together with an original affidavit from the property owner whose names are reflecting on the municipal rates and taxes statement to confirm that the director resides in their property.

MUNICIPAL RATES AND TAXES STATEMENTS OF THE COMPANY

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VERIFICATION OF DOCUMENTS AND INFORMATION.

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- ✓ CIDB Grading will be verified
- ✓ BBBEE certificates will be verified with relevant registration bodies.
- ✓ A Sworn Affidavit will be accepted only if an original is submitted.

ALLOCATION OF BBBEE POINTS

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- ✓ No points will be allocated if the attached sworn affidavit (BBBEE) is a copy.

INSTRUCTION ON THE SUBMISSION OF TENDER DOCUMENTS

- ✓ A tender document must be in a sealed envelope that has on the outside the bid number and bid description. Both the bid number and the bid description must be on the envelope for the document to be acceptable.
- ✓ If the bid number and description are not clearly marked on the envelope, the bid will not be received
- ✓ The tender document must be in the tender box before the specified closing time and date.
- ✓ Bidders who arrive when the tender box is open are late and their submissions will not be accepted.



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**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE RUSTENBURG LOCAL MUNICIPALITY					
BID NUMBER:	RLM/DTIS/0013/2020/21	CLOSING DATE:	13 JUNE 2022	CLOSING TIME:	11H00
DESCRIPTION	RE-ADVERT: APPOINTMENT OF A SERVICE PROVIDER FOR THE SUPPLY AND DELIVERY A HIGH VOLTAGE TEST MACHINE AND EQUIPMENT (THUMPER)				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (MBD7).					

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX
SITUATED AT:

RUSTENBURG LOCAL MUNICIPALITY					
MISSIONARY MPHENI HOUSE					
CNR BEYERS NAUDE AND NELSON MANDELA DRIVE, RUSTENBURG					
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT <input type="checkbox"/> Yes <input type="checkbox"/> No		
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					



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ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]
TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE	R
SIGNATURE OF BIDDER	DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED			
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT	SCM	CONTACT PERSON	Mr. E. Phiri
CONTACT PERSON	MR J MASINGA	TELEPHONE NUMBER	014 590 3259
TELEPHONE NUMBER	0145903123	E-MAIL ADDRESS	ephiri@rustenburg.gov.za
E-MAIL ADDRESS	jmasinga@rustenburg.gov.za tenders@rustenburg.gov.za		



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**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED, COMPLETED WITH A BLACK PEN
1.3. THIS BID IS SUBJECT TO THE RLM SUPPLY CHAIN MANAGEMENT POLICY, PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA .
2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.
2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS ONLY
3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO
3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? <input type="checkbox"/> YES <input type="checkbox"/> NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS WILL RENDER THE BID INVALID.
NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:



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MBD 4: DECLARATION OF INTEREST

No bid will be accepted from persons in the service of the state.

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.

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, shareholder²):

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?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
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3.8.1 If yes, furnish particulars.

.....

¹MSCM Regulations: "in the service of the state" means to be –

(a) a member of –

(i) any municipal council;



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- (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.

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

3.9 Have you been in the service of the state for the past twelve months?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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?



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(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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.

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

3.14.1 If yes, furnish particulars.....

.....



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

Full Name	Identity Number	Personal Reference Tax Number	State Employee Number

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder



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MBD 5

DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED)

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire:

1 Are you by law required to prepare annual financial statements for auditing?

☐ *YES ☐ NO

1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.

.....

.....

2 Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days?

☐ *YES ☐ NO

2.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.

2.2 If yes, provide particulars.

.....

.....

.....

3 Has any contract been awarded to you 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?

☐ *YES ☐ NO



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3.1 If yes, furnish particulars

.....

.....

4. Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic?

*YES	NO
------	----

4.1 If yes, furnish particulars

.....

.....

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

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

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Name/s and Surname of Bidder

.....
Signature

.....
Position in the Firm/Company

.....**2022**
Date



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MBD 6.1 PREFERENCE CLAIMED IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011

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

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

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

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

1.2

a) The value of this bid is estimated to not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable; or

b) The 80/20 preference point system will be applicable to this tender Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.3 The maximum points for this bid are allocated as follows:

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

1.4 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.5 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.



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2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

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

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

80/20

or

90/10

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$



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Where

P_s = Points scored for price of bid under consideration

P_t = Price of bid under consideration

P_{min} = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

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

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

5. BID DECLARATION

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

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

- 6.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

- 7.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)



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

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

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

- v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

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

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Company
- ☐ (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....



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8.6 COMPANY CLASSIFICATION

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional service provider
- ☐ Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 MUNICIPAL INFORMATION

Municipality where business is situated:

Registered Account Number:

Stand Number:.....

8.8 Total number of years the company/firm has been in business:.....

8.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the bidder or contractor, its shareholders and directors, or only the



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shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

- (e) forward the matter for criminal prosecution.

WITNESSES

1.
2.

.....
SIGNATURE(S) OF BIDDERS(S)

DATE:
ADDRESS



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CONTRACT FORM - RENDERING OF SERVICES

MDB 7.2

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)
in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents,
 - Invitation to bid;
 - Tax compliance status (CSD report);
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
 - Declaration of interest;
 - Declaration of bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfillment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.



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NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES

1

2

DATE:



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MBD 7.2

CONTRACT FORM - RENDERING OF SERVICES

PART 2 (TO BE FILLED IN BY THE PURCHASER [RLM])

1. I..... in my capacity as..... accept your bid under reference numberdated.....for the rendering of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

4. I confirm that I am duly authorized to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1

2

DATE:



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MBD 8: DECLARATION OF ABUSE OF SUPPLY CHAIN MANAGEMENT SYSTEM

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions 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 disregarded if that bidder, or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.



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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). The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.	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)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.	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 outside of 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:		
4.4	Was any contract between the bidder and any 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"/>
4.4.1	If so, furnish particulars:		



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CERTIFICATION

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

.....
Name/s and surname of Bidder

.....
Signature

.....
Position in the Firm/Company

.....
Date



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MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. take all reasonable steps to prevent such abuse;
 - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

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

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



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I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid 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)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.



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7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
- (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 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.

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder



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SECTION 38: DECLARATION FORM

Having examined the BID and the general conditions thereto, I/we hereby certify that the bid price in the bid schedules and the preference points claimed are correct.

I/We furthermore certify that I/we/the Company comply/complies with the issues around Section 38 of the Supply Chain Management Policy inter alia:

IF ALL IS IN PLACE IN RESPECT OF THE CONTRACTUAL ISSUES LISTED IN THE TABLE BELOW; THE ANSWER SHOULD BE YES. ATTACH SUPPORTING INFORMATION IF ANY OF THE ANSWERS IS NO.

Note that the Municipality's Procurement Section will verify the statements.

I/we certify the following:

No.	CONTRACTUAL ISSUES	YES	NO
1.	In terms of Section 38 (1) (c) that the Bidder or any of the Directors is not listed as a person prohibited from doing business with the Public Sector		
2.	In terms of Section 38 (1)(d) (i) that the Bidder or any of the Directors does not owe rates and taxes or Municipal service charges to any Municipality that is in any arrears for more than three (3) months. Copies of the latest Municipal service charges statement of the Bidder and the Directors must be attached to the tender/bid document		
3.	In terms of Section 38 (1) (d) (ii) that the Bidder or any of the Directors has not failed to perform satisfactorily on a previous/previous contract/s with the Municipality or any organ of state		
4.	In terms of Section 38 (i) (9) that the Bidder or any of the Directors has not been convicted for fraud or corruption during the past five (5) years		
5.	In terms of Section 38 (i) (9) (iv) that the Bidder or any of the Directors has not been listed in the Register Of Tender Defaulters in terms of Section 29 of the Prevention and Combating of Corrupt Activities Act, (Act No. 12 of 2004)		

.....
SIGNATURE OF BIDDER

.....2022.
DATE

.....
FULL NAME AND SURNAME OF BIDDER IN BLOCK LETTERS

COMPANY NAME:

PHYSICAL ADDRESS:

TELEPHONE NUMBER:

EMAIL ADDRESS:

WITNESS 1:

WITNESS 2:



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SIGNATORY AUTHORISATION

(TO BE COMPLETED BY THE BIDDER)

I/We the undersigned, am/are authorized to enter into this contract on behalf of

(Name of Firm)

By resolution taken at a meeting held on the day of (month).....2022 resolved to
authorise holder of ID number to sign
all the documents on behalf of the company.

Print name of authorised representative:

Signature:



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NAME AND SURNAME OF THE DIRECTORS	SIGNATURE

PLEASE NOTE: Failure to complete all blank spaces on this form or attend to other details mentioned therein will render the bid/tender liable to rejection.



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GENERAL CONDITIONS OF CONTRACT
(NOT TO BE ALTERED)

PROCUREMENT: GENERAL CONDITIONS OF CONTRACT
Dated July 2010 as set out by the National Treasury: Republic of South Africa
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General Conditions of Contract

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 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 where an enterprise abroad is subsidized 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 recognized 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 of 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 consignees 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 goods are so delivered and a valid receipt is obtained.

1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.

1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.



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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 goods 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 organization 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 "Supplier" means the successful bidder who is awarded the contract to maintain and administer the required and specified service(s) to the State.

1.26 "Tort" means in breach of contract.

1.27 "Turnkey" means a procurement process where one service provider assumes total responsibility for all aspects of the project and delivers the full end product / service required by the contract.



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1.28 "Written" or "in writing" means hand-written 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 (excluding professional services related to the building and construction industry), 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 goods, 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 nonrefundable fee for documents may be charged.

3.2 Invitations to bid are usually published in locally distributed news media and on the municipality/municipal entity website.

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 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.



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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 use of the goods or any part thereof by the purchaser.

6.2 When a supplier developed documentation / projects for the municipality / municipal entity, the intellectual, copy and patent rights or ownership of such documents or projects will vest in the municipality / municipal entity.

7. Performance security

7.1 Within thirty (30) 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 SCC.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.

7.3 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 thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified.

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 goods to be produced or services to be rendered should at any stage be subject to inspections, tests and analyses, the bidder or contractor's premises shall be open, at all reasonable hours, for inspection by a representative of the purchaser or organization acting on behalf of the purchaser.

8.3 If there are no inspection requirements indicated in the bidding documents and no mention 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.



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8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the goods 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 goods or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such goods or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.

8.6 Goods 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 goods 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 goods 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 goods, which do comply with the requirements of the contract. Failing such removal the rejected goods shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute goods forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected goods, purchase such goods 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 22 of 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 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, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods and arrangements for shipping and clearance obligations shall be made by the supplier in accordance with the terms specified in the contract.

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.



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12. Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified.

13. Incidental Services

13.1 The supplier may be required to provide any or all of the following services, including additional services, if any:

- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
- (b) furnishing of tools required for 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, 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.



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15.2 This warranty shall remain valid for twelve (12) 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 eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise.

15.3 The purchaser shall promptly notify the supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified 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, 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.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfillment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated.

17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices quoted by the supplier in his bid, with the exception of any price adjustments authorized or in the purchaser's request for bid validity extension, as the case may be.

18. Variation orders

18.1 In cases where the estimated value of the envisaged changes in purchase does not vary more than 15% of the total value of the original contract, the contractor may be instructed to deliver the goods or render the services as such. In cases of measurable quantities, the contractor may be approached to reduce the unit price, and such offers may be accepted provided that there is no escalation in price.

19. Assignment



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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 these contracts 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 delivery and/or 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 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 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 The right is reserved to procure outside of the contract small quantities or to have minor essential services executed if an emergency arises, the supplier's point of supply is not situated at or near the place where the goods are required, or the supplier's services are not readily available.

21.4 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 22.2 without the application of penalties.

21.5 Upon any delay beyond the delivery period in the case of a goods contract, the purchaser shall, without cancelling the contract, be entitled to purchase goods 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



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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 fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the supplier as having no objection and proceed with the restriction.

23.5 Any restriction imposed on any person by the purchaser will, at the discretion of the purchaser, 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 purchaser actively associated.

23.6 If a restriction is imposed, the purchaser must, within five (5) 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.



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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, No. 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 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. Antidumping 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 subsidized 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 supplier to the purchaser or the purchaser may deduct such amounts from moneys (if any) which may otherwise be due to the supplier in regard to goods or services which he 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.

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 promptly notify the purchaser 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



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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 amicably such dispute or difference by mutual consultation.

27.2 If, after thirty (30) 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 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 the supplier for goods delivered and / or services rendered according to the prescripts of the contract.

28. Limitation of Liability

28.1 Except in cases of criminal negligence or willful 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 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.

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.



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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, license fees, and other such levies imposed outside the purchaser's country.

32.2 A local supplier shall be entirely responsible for all taxes, duties, license 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 SARS must have certified that the tax matters of the preferred bidder are in order.

32.4 No contract shall be concluded with any bidder whose municipal rates and taxes and municipal services charges are in arrears.

33. Transfer of contracts

33.1 The contractor shall not abandon, transfer, cede assign or sublet a contract or part thereof without the written permission of the purchaser

34. Amendment of contracts

34.1 No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force unless such agreement to amend or vary is entered into in writing and signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing, shall also be in writing.

35. Prohibition of restrictive practices

35.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 89 of **restrictive practices** 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.

35.2 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 section 59 of the Competition Act No 89 Of 1998.

35.3 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 ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.



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TERMS OF REFERENCE/ SPECIFICATIONS

#	Product	Description
1	Surge Generator	2100J/19" Surge Generator 32KV DC
1.1	Rack	Including 19" Rack
2	Cable Reel	Cable Reel with 25m of HV Cable
3	40kV Socket and Male Plug	CS 40 Coaxial single socket and Male Plug
4	Scope + SKID	Micro-processor Scope (including SK1D)
5	32kV Filter	HV Filter Interface
6	Listening Set	Acoustic Set
7	Trailer	Large Trailer
8	Installation	Installation
9	Power Supply	5000W Supply System
10	Cable Tracer	Receiver with 10Watt Transmitter and 4" Clamp
11	Training	Training
12	Warranty	Warranty
13	Spares	Spares
14	Experience	List of previous Trailers



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1. SPECIFICATION FOR A SURGE VOLTAGE GENERATOR, 2000J

1.0 OPERATING CONDITIONS

The equipment shall be capable of satisfactory operation under the following climatic conditions:

- Altitude : 1800m above sea level
- Operating Temperature: -20°C to 50°C
- Average Humidity : 78%
- Lightning : Severe
- Dust : Severe

2.0 SCOPE:

This Tender Enquiry is for the supply and delivery of:

1. - Cable Fault Locating Equipment in a Trailer

The cable fault locating equipment shall be capable of testing and locating high and low impedance faults as well as intermittent faults. The system voltage shall be 11kV-33kV medium voltage and 400 Volt low voltage cables of the XLPE paper and PVC being used extensively.

The Test Trailer shall be fully equipped with all the necessary testing equipment, hot sticks, discharge/earth stick, necessary safety interlocks, and Route Locating.

3.0 SPECIFICATION

This set shall consist of the following equipment:

Surge Voltage Generator

The high voltage surge generator shall be a 19" Rack Mounted self-contained and adequately insulated without exposed or unshielded live parts which may endanger the safety of the operating personnel. The unit shall comply with the CE Safety Standards

The generator shall operate on the surge voltage method where a high voltage capacitor is charged by means of a DC voltage and where these capacitors are discharged via an electromechanical contractor into the cables. During capacitor selection the H.T. contactor shall be interlocked in the OFF position. This contactor shall be adequately shielded so as not to endanger the operator and be suitably interlocked to prevent accidental contact with the H.V. parts. The contactor shall be protected by a ceramic heat shield and the contacts shall be tungsten tipped to withstand thermal stress. The capacitors shall be in a case adequately rated for voltage,



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The Surge Generator shall separately discharge the cable and the capacitor via a resistor (soft discharge) when the unit is switched off or with power failure. A common discharge mechanism is not acceptable. With power failure the direct earthing shall be done by gravity fail to safety. The output voltage shall be continuously selectable in three steps 0 -> 8/16/32kV. Within each of these steps, it shall be possible to preselect the surge capacity with 0 to 100% of the range. The voltage shall be zero interlocked to avoid a high voltage being applied with switch-on. Instrumentation and metering shall be so designed to fail to safety. Under no circumstances should it be possible for the instruments to be left at a dangerously high voltage due to a power failure - thus endangering the operator.

The H.V. coaxial cable specified in the Accessories below (3.5) shall be connected via interfaces to a special H.V. connection box on the Surge Generator.

The ease of operation, portability and safety shall have a very high preference in adjudicating this tender.

The surge voltage generator shall meet the following requirements:

- Surge Capacity 2048 watt seconds
- Surge Voltage Output 0 -> 8kV
0 -> 16kV
0 -> 32kV
Continuously adjustable
- Pulsing Rate 20, 30 Imp/min and single shot
- Max. Power Consumption 5000VA
- Max Surge Energy 2048Ws
- Voltage Supply 220V \pm 10% 1 phase Fuses and Thermal protection.
- Metering 0 -> 8kV
0 -> 16kV
0 -> 32kV
- Precondition Burning Step 8kV - 850mA Continuous
- Or Pressure Testing Step 16kV - 425mA Continuous
Step 32kV - 210mA Continuous

The Surge Generator shall be housed in a 19" Steel Housing (see 3.9) together with TDR and interfaces. It shall be suitably constructed to ensure that the equipment and operating personnel are fully screened from the High Voltage electromagnetic surges. Each component and steel frame shall be solidly earthed back to a single earth point.



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4.0 COMPLIANCE WITH SPECIFICATION

NO.	DESCRIPTION	SPECIFIED REQUIREMENT
1	Surge Capacity	2048Ws (min requirement) Switchable to give max. surge energy at 8kV, 16kV, 32kV
2	H.V. Capacitors	HV Capacitors in plastic type housing with porcelain bushings
3	Surge Voltage Range	0 -> 8/16/32kV Continuously adjustable
4	Continuous Current Output	8kV -> 850mA 16kV -> 425mA 32kV -> 210mA
5	Pulsing Rate	0 -> 10,20p/min single shot DC Mode
6	Power Consumption during Surge	Max. 5kVA
7	Power Supply	220V \pm 10% 50Hz
8	Protection	Fuses, Thermal overload
9	H.V. Contractor	Ceramic Shield, Tungsten tipped electrodes
10	Soft Discharge	Automatic Discharge via H.V. Resistor with power failure or switch off Gravity fail to safety
11	Interlocks	Zero H.V. Voltage H.V. Plug/Socket interlock during H.V. Capacitor Selection interlock External interlock facility
12	Painting	Electrostatically Powder Coated/Galv. frame
13	Cable/Discharge	The cable shall be softly discharged via a separate solenoid
14	Surge Capacitor Discharge	The Surge Capacitor shall be discharged separately via its own solenoid. Operator safety feature.
15	H.V. Cable connection	Shall not be via any form of plug
16	Emergency Stop Button	Key operated Key removable if off position.
17	Manufacturer	
18	Country of Origin	
19	CE Compliance	

1.1 SPECIFICATION FOR A 19" RACK

1.0 SCOPE

To house the fault location equipment.

Robust 19" floor standing cabinet manufactured in accordance with DIN 41494

Protection Rating of IP40

Cabinet to be powder coated.



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2.0 COMPLIANCE WITH SPECIFICATION

No.	Description	Specific Requirement
1	19" Cabinet	IP40
2	Painted	Powder Coated
3	Rack	With Modem Rack
4	Tray	Scope Draw
5	Country of Origin	Manufactured in South Africa to promote job creation and skills development

2. SPECIFICATION FOR A CABLE REELS SYSTEM

1. SCOPE

To supply a cable rack/reel

2. SPECIFICATION

A set of cable drums complete with 3 manually driven and lockable cable drums accommodating:

- 25 meters of high voltage flexible coaxial tested to 80kV DC (min.) and fitted with adaptor plugs and G-clamps for plugging safely into H.V. output of the interfacing equipment and clamping onto the cable under test.
- 25 meters mains cable 3 core 2.5mm² with a safety cap covered plug for connecting onto the above system and a 15 amp 3 pin plug top for 220V 50Hz power supply.
- 25 meters of protective earth line for connection on the system earth complete with G-Clamps on both ends. Tapping sleeves shall be fitted every 3 meters in order to keep the earth resistance to a minimum.

A suitable High Voltage plug shall be provided to facilitate quick and easy connection of the H.V. Cable Reel. No bolted connections will be accepted.

The H.T. plug shall not be energised until the H.T. plug is plugged in. The system shall be interlocked to provide operator safety. An external contact shall be provided to enable a "Danger" Flashing Strobe Light to be energised. The power supply shall be 220V \pm 10% 50Hz via a standard 15 amp, three pin plug.

3. COMPLIANCE WITH SPECIFICATION

NO	DESCRIPTION	SPECIFIED
1	Cable Drum Rack	1 Large drum and 2 medium drums, all with rounded side wall edges
		Braked
	H.V. Lead	80kV tested
		25 meter coaxial 6mm ² core
	Screen	6mm ²
	Plugs	H.V. plug and Interlocks and fitted with adaptor plugs and G-clamps for plugging safely into H.V. output
	Cable	25 Meter Power Cable, 3 core 2.5mm ² with a safety cap covered plug
	Wire	25 Meter Earth Cable. 16mm ² complete with G-Clamps on both ends. Tapping sleeves shall be fitted every 3 meters



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3.0 SPECIFICATION FOR A HV PLUG AND SOCKET, PLUS TDR SOCKET

1. SCOPE

This Tender calls for the supply and delivery of a HV PLUG AND SOCKET, PLUS TDR SOCKET.

NO	DESCRIPTION	REQUIRED
1	HV Plug and Socket	40kV
		Female HV Socket 40kV
		Male HV Plug

4.0 SPECIFICATION FOR A TIME DOMAIN REFLECTOMETER

1. SERVICE CONDITIONS

The equipment shall be capable of satisfactory operation under the following climatic conditions.

- Operating Temperature : -20° to +50 °C (15°F to +122°F)
- Storage Temperature : -40° to +60 °C (-40°F to +140°F)

2. SCOPE

This Tender calls for the supply and delivery of a time domain reflectometer.

3. APPLICATION

The unit will be mobile, easy to use, single phase unit for Cable Fault Location and will be used for Cable Fault Location through Time Domain Reflection method. The unit will be able to the same tests on live cables up to 400 V. Additional fault location methods shall be available by the use of an interface system coupling device. The unit will have various measuring ranges enable and pre-location in a range from 0m up to 50 km long cable lengths with measurement accuracy of 0,5m. The unit shall be operated by function keys which is fully menu guided. The unit will have an LCD colour display and allow the display of up to three recorded echograms at the same time the unit shall have a RS232 printer interface with data transfer to a personal computer. The unit shall be supplied either by rechargeable battery or from the mains power supply. The unit shall have a fully guided menu that can be switched off if not needed be available in different languages and have a 6-hour operation in battery mode.

4. ACCESSORIES INCLUDES

- Echo meter without accessories
- Connection cable with tapping terminal
- Cable RS 232
- Mains unit and mains cable
- Software
- Cover bag
- User Manual



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4.1 Options

- Carrying case and accessories
- Earth cable BNC
- Ceramic fuse 1A / 13,3 kA
- Mounting in 19" Front panel
- measurement data transfer to PC

1. COMPLIANCE WITH SPECIFICATION

NO.	DESCRIPTION	SPECIFIED REQUIREMENT
1	Input Power	240 Vac and Rechargeable internal battery
2	Output voltage of transmitting pulse	10.....60V
3	Pulse width of transmitting pulse	40ns ... 10us
4	Voltage withstand	400V AC (50/60 Hz)
5	Output impedance	10 – 250 Ohm
6	Sensitivity of input divider	0 ... 60 dB
	Measuring ranges @ $v/2=80\text{m}/\mu\text{s}$	0 – 65 km (0 – 213,000 ft)
7	Measuring accuracy	0.2 %
8	Sampling rate	200 MHz (5ns)
9	Resolution	0,4m
10	Propagation velocity $v/2$	50-150 m/ μs
11	Number of echograms memories	100
12	LCD display	320x240 pix. (121mm x 92mm – 6")
13	Power supply for operation and/or charging	100-240V (50/60 Hz)
14	Operation time of rechargeable batteries	Approx. 5 h



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15	Operating temperature	-20 ... +50 °C
16	Storage temperature	-40 ... +60°C
17	Languages	German, English, French, Spanish, Portuguese, Dutch, Polish, Italian
18	Type of protection IP54	Splash proof and dust protected
19	Dimensions	220mm x 130mm x 75mm
20	Weight	Approx. 1,1 kg
21	Options	Mounting in 19"Front panel
22		Measurement data transfer to PC

5.0 SPECIFICATION FOR A PRE-LOCATOR INTERFACE MODULES:

1. SCOPE

A number of the above methods require certain interfaces and the following shall be included.

The Secondary Impulse Mode Interface

Capacitive interface shall be supplied to fit into an existing 19" rack. The Secondary Impulse Method shall be incorporated in this method operating in conjunction with the existing Surge Generator.

The Impulse Current and Differential Impulse Mode Interface

Inductive coupler for the surge current method which shall be easily attachable to the surge generator cable in single phase mode.

2. COMPLIANCE WITH SPECIFICATION

No.	Description	Specified Requirement
1	SIM Interface	SIM, Multiple Shot SIM Differential Mode Capacitive Interface with mA indicator for pressure testing
2	Manual Operation	Selector Levers
3	Soft Discharge	Cable and Capacitor soft discharge
4	Impulse Current Mode	Current Coupler
5	H.V. Insulation	Coupler to be fully insulated from H.V.



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6.0 SPECIFICATION FOR A CABLE FAULT PIN-POINTER

1. SERVICE CONDITIONS

The equipment shall be capable of satisfactory operation under the following climatic conditions.

- Ambient temperature : -20°C to +60°C
- Relative Humidity : Non-condensing
- Storage temperature : -20°C to +70°C

2. SCOPE

This Tender calls for the supply and delivery of a computerized pin-pointer for fast and precise cable fault location.

3. APPLICATION

3.1 Features:

- Fast and precise cable fault pinpointing
- Unique operating convenience thanks to wireless Bluetooth® connections
- Precise 3D user guidance to the fault
- Excellent acoustic quality and range
- Saves time thanks to use of cable route data and the pre-located fault position from the Fault Location App*

3.2 Measuring methods:

The pin-pointing system is used for the precise pinpointing of cable and cable sheath faults. Combining acoustic and electromagnetic fault pinpointing with sheath fault location in one system, it is ideal for universal application. Thanks to the use of the latest technologies, locating the exact fault position with the unit is extremely fast and precise. The innovative two-level signal processing concept permits a high degree of sensitivity and accuracy, and maximum suppression of ambient noise.

The prepared measurement data is sent directly to the headphones and the control unit via Bluetooth®. The wireless connection ensures greater convenience and freedom of movement and dispenses with the need for cumbersome cables.

The measurement parameters are set automatically depending upon the environmental conditions. As a result, and thanks to the intuitive operation of the capacitive touchscreen, working with the protract® is extremely simple and convenient.

3.3 Functions

- Acoustic and magnetic pinpointing of cable faults
- Pinpointing of cable sheath faults and faults due to earth contact using the step voltage method



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- All system components must be connected with each other wirelessly via Bluetooth®.
- Distances of up to 40m between the control unit and the acoustic ground probe must be possible
- Power supply must be by rechargeable or non-rechargeable batteries
- Must also be used without headphones thanks to the loudspeaker integrated into the control unit
- Precise left/right guidance and fault direction display in the 3D view
- Real-time calculation and display of the fault distance incl. the previous measured values
- Adaptive two-stage ambient noise suppression (ANS)
- Ambient noise inhibiting design of acoustic ground probe
- Clear distinction between the breakdown noise of the fault and the surge noises of the cable fault location system
- Use of the cable route data from databases in the cable fault location system as well as the precisely pre-located fault position in a map
- Direct availability and use of geographic information

4. ACCESSORIES

a. Included

- Power Supply Voltage: 110 - 240 V,
- Transport case,
- CU control unit incl. carrying handle,
- Battery charger,
- Country-specific adapter,
- Screwdriver,
- USB cable 2.0,
- Bluetooth® headphone incl. USB charging cable,
- Battery charger,
- Country-specific adapter,
- AGP acoustic ground probe incl. tripod,
- Researchable battery (14 pcs),
- Battery charger,
- Country-specific adapter,
- Telescopic handle,
- Contact tip for AGP 50mm,
- Contact tip for AGP 100mm,
- Contact tip for AGP 15mm,
- User manual



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5. COMPLIANCE WITH SPECIFICATION

NO.	DESCRIPTION	SPECIFIED REQUIREMENT
	Acoustic and electromagnetic pinpointing	
1	Filter	ANS (Adaptive Noise Suppression)
2	Acoustic gain	Automatic/manual, 0 – 34 dB
3	Electromagnetic gain	Automatic/manual, 0 – 50 dB
4	Propagation time measurement range	0 – 100 ms (approx. 50 m @ v = 500 m/s)
5	Resolution	21 µs (approx. 0.1 m @ v = 500 m/s)
6	Acoustic bandwidth	1 Hz – 2 kHz
7	Distance indicator	in milliseconds, metres or feet with historic measured values
8	Left/right indication	Yes
	Sheath fault location	
9	Measurement range	1 µV – 220 V
10	Noise suppression	50/60 Hz, 16 2/3 Hz, DC
11	Zero-point adjustment	Automatic
12	SVP step voltage probes	
13	Length	Extendable,
14		approx. 580 mm – 1,100 mm
15	Weight per probe	Approx. 0.9 kg
	CU control unit	
16	User interface languages	German, English, French, Italian, Dutch, Polish, Portuguese, Russian, Spanish, Czech, Hungarian
17	Loudspeaker	3 W
18	Display	Transmissive colour TFT
19	Display size	4.3", 480 x 272 pixels
20	Brightness	800 cd/m ²
21	Touchscreen	Capacitive, operable with gloves
22	Power supply	
23	Rechargeable battery mode	8 x NiMH Mignon 1.2 V IEC LR6
24	Non-rechargeable battery mode	8 x alkali batteries 1.5 V IEC LR6



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25	Rechargeable or non-rechargeable battery life	Approx. 6 h*
26	Charging time	Approx. 3.5 h
27	Degree of protection	IP54
28	Dimensions (W x H x D)	205 x 143 x 69 mm
29	Weight	Approx. 1.1 kg
	AGP acoustic ground probe	
30	Data transmission	Bluetooth®
31	Range	40 m
32	Power supply	
33	Rechargeable battery mode	6 x NiMH Mignon 1.2 V IEC LR6
34	Non-rechargeable battery mode	6 x alkali batteries 1.5 V IEC LR6
35	Rechargeable or non-rechargeable battery life	Approx. 16 h*
36	Charging time	Approx. 3.5 h
37	Degree of protection	IP65
38	Dimensions (W x H x D)	Ø 225 x 146 mm
39	Weight	Approx. 2.6 kg (without handle)
40		Approx. 3.2 kg (with handle)
	General	
41	Charger for rechargeable batteries	
42	Power supply	100 – 240 V, 50/60 Hz
43	Output voltage	DC 4.8 – 12 V, 0.8 A
44	Safety/work safety	Volume limiting to 85 dB(A)
45	Ambient temperature (operational)	-20°C to +60°C
46	Storage temperature	-20°C to +70°C
47	Rel. humidity	Non-condensing
48	Safety and EMC	CE-compliant in accordance with Low Voltage Directive (2014/35/EU), EMC Directive (2014/30/EU), EN 60068-2-ff Environmental testing



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	Included	
49		Power Supply Voltage: 110 - 240 V
50		Transport case
51		CU control unit incl. carrying handle
52		Battery charger: CU
53		Screwdriver
54		USB cable 2.0
55		Bluetooth® headphone incl.
56		USB charging cable
57		Battery charger: headphone
58		AGP acoustic ground probe incl. tripod
59		Recharchable battery (14 pcs)
60		Battery charger: ground probe
61		Telescopic handle
62		Contact tip for AGP 50mm
63		Contact tip for AGP 100mm
64		Contact tip for AGP 15mm
65		User manual

7.0 SPECIFICATION FOR A LARGE SIZE D-TRAILER

1. SERVICE CONDITIONS

The equipment shall be capable of satisfactory operation under the following climatic conditions:

- Altitude : 1800m above sea level
- Operating Temperature:

2. SCOPE

This Tender Enquiry is for the supply and delivery of a purpose build Large Mild Steel Trailer, adequately designed to house 32kV Cable Fault Location equipment.



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3. SPECIFICATION

The manufactured trailer must comply with all SABS and Road Ordinance requirements and must carry a twelve month conditional guarantee under normal road usage. The trailer must be ID-Dotted and a full set of registration documents must be issued on completion.

The manufactured large trailer must be a two wheel heavy duty enclosed test equipment transport trailer with lockable left hand front side door, lockable rear gullwing door with l/h bottom opener flap, front nose cone with lockable l/h side door and internal shelf with a three battery holder frame. The trailer must be fitted with internal top hat sections to secure the various equipment and the floor must be reinforced to support and secure various pieces of equipment. Underbody channel sections must be fitted to accommodate the cabling for the machines.

4. COMPLIANCE WITH SPECIFICATION

TECHNICAL DATA SHEET

SURGE VOLTAGE GENERATOR

NO	DESCRIPTION	SPECIFIED REQUIREMENT
1	BODY DIMENSIONS	2,1m Long (excluding nose cone and drawbar) x 1,53m wide x 1,55m high
2	CHASSIS MATERIAL	76mm x 38 mm x 6mm thick mild steel hot rolled channel iron
3	FLOOR MATERIAL	3mm thick mild steel plate with additional under floor reinforcing to secure the equipment
4	BODY MATERIAL	1,6mm & 1,2mm thick mild steel sheets (profile formed and panelled)
5	ROOF MATERIAL	1,2mm thick mild steel sheets (profile formed and panelled)
6	REAR DOOR MATERIAL	Top hinged tubular frame with 1,2mm thick mild steel sheets (profile formed and panelled) with two top mounted gas support stays
7	SIDE DOOR MATERIAL	Side hinged tubular frame with 1,2mm thick mild steel sheets (profile formed and panelled)
8	PAYLOAD :	+/- 1000 Kg (Tare +/- 600Kg x GVM +/- 1800 Kg)
9	AXLE	One 1800 Kg 50mm solid EN8 250mm x 45mm cable braked beam axle with taper roller bearings
10	BRAKES	Mechanical override and park brake system with auto reverse release mechanism
11	COUPLER	50mm ball and socket type (2000 Kg)
12	TYRES	195R14C x 8 ply steel belt radials (950 Kg each)
13	RIMS	14" x 6 stud white steel mag rims
14	SUSPENSION	8 blade leaf springs type with shock absorbers
15	SPARE WHEEL	One fitted with locking bracket rear under body mount



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16	MUDGUARDS	All steel reinforced (outboard type)
17	JOCKEY WHEEL	Heavy duty single wheel industrial retractable type
18	SUPPORT STANDS	2 rear drop support stands fitted
19	DOOR LOCKS	Light weight container door locks with large "D" rubber seals
20	LIGHTS	12/24 volt protected LED truck lights with rear chevron triangle reflectors and side reflective tape
21	FINISH	The trailer will be spray painted with Red oxide etch primer and Polyurethane paint (White). The under chassis of the trailer will be spray painted chassis Black
22	QUALITY REQUIRMENT	Comply with all SABS and Road Ordinance requirements (Provide Certificate)
23	GUARANTEE	12 month conditional guarantee under normal road usage
24	SECURITY	The trailer must be ID-Dotted
25	DOCUMENTATION	A full set of registration documents must be issued on completion
26	CONFIGURATION	2 wheel heavy duty enclosed test equipment transport trailer with lockable left hand front side door
		Lockable rear gullwing door with l/h bottom opener flap
		Front nose cone with lockable l/h side door and internal shelf with a three battery holder frame
		Fitted with internal top hat sections to secure the various equipment and the floor must be reinforced to support and secure various pieces of equipment
		Underbody channel sections must be fitted to accommodate the cabling for the machines
27	ISO Requirement	
	Overflow display	"OL" is displayed for ≥ 30000 digits, or ≥ 3100 digits, respectively
	Polarity display	"-" (minus sign) is displayed if plus pole is connected to "1"
	Measuring rate	10 and 40 measurements per second with the Min-Max function except for the capacitance, frequency and duty cycle measuring functions
	Refresh rate	2 times per second, every 500 ms
	Safety class	II per DIN EN 61010-1:2011/VDE 04111:2011
	Measuring category	CAT II, CAT III
	Nominal voltage	1000 V, 600 V
	Pollution degree	2
	Test voltage	5.2 kV~ per DIN EN 61010-1:2011/ VDE 0411-1:2011



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8.0 SPECIFICATION FOR THE INSTALLATION

1. SCOPE

The trailer shall be fitted with:

- a) The trailer shall be fitted with even flooring
- b) Suitable Operating Seat
- c) DB, wiring, plugs and lights
- d) An earth spike and lead
- e) Discharge/Earth stick rated for 32kV cables both XLPE and Paper cables.
- f) 15kg Fire Extinguisher
- g) Measuring Wheel for measuring the distance to fault.

2.0 Compliance with Specification

NO	DESCRIPTION	SPECIFIED
1	Installation	The trailer shall be fitted with even flooring
		Suitable Operating Seat
		DB, wiring, plugs and lights
2	Accessories	An earth spike and lead
		Discharge/Earth stick rated for 32kV cables both XLPE and Paper cables.
		15kg Fire Extinguisher
		Measuring Wheel for measuring the distance to fault.
		11 - 33kV Voltage detector and stick

9.0 SPECIFICATION FOR A 48V 5000W POWER SUPPLY SYSTEM

1. SERVICE CONDITIONS

The equipment shall be capable of satisfactory operation under the following climatic conditions.

- Operating Temperature : -40 to +65°C (fan assisted cooling)
- Humidity (non- condensing) : max 95%

2. SCOPE

This Tender calls for the supply and delivery of a 48V 5000W POWER SUPPLY SYSTEM



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3. SPECIFICATION

Two AC Outputs

The main output has no break functionality. The 48V 5000W POWER SUPPLY SYSTEM must take over the supply to the connected loads in the event of a grid failure or when shore/generator power is disconnected. This happens so fast (less than 20 milliseconds) that computers and other electronic equipment will continue to operate without disruption. The second output must be live only when AC is available on the input of the 48V 5000W POWER SUPPLY SYSTEM. Loads that should not discharge the battery, like a water heater for example can be connected to this output (second output available on models rated at 3 kVA and more).

Virtually unlimited power thanks to parallel operation

Up to 6 must be able to operate in parallel to achieve higher power output. Six 24/5000/120 units, for example, must provide 25 kW / 30 kVA output power with 720 Amps charging capacity.

Three phase capability

In addition to parallel connection, three units of the same model can be configured for three phase output. But that's not all: up to 6 sets of three units can be parallel connected for a huge 75 kW / 90 kVA inverter and more than 2000 Amps charging capacity.

PowerControl - Dealing with limited generator, shore side or grid power

The 48V 5000W POWER SUPPLY SYSTEM is a very powerful battery charger. It will therefore draw a lot of current from the generator or shore side supply (nearly 10 A per 5 kVA Multi at 230 VAC). With the Multi Control Panel a maximum generator or shore current can be set. The 48V 5000W POWER SUPPLY SYSTEM will then take account of other AC loads and use whatever is extra for charging, thus preventing the generator or shore supply from being overloaded.

PowerAssist - Boosting the capacity of shore or generator power

This feature takes the principle of PowerControl to a further dimension. It must allow the 48V 5000W POWER SUPPLY SYSTEM to supplement the capacity of the alternative source. Where peak power is so often required only for a limited period, the 48V 5000W POWER SUPPLY SYSTEM will make sure that insufficient shore or generator power is immediately compensated for by power from the battery. When the load reduces, the spare power is used to recharge the battery.

Solar energy: AC power available even during a grid failure

The 48V 5000W POWER SUPPLY SYSTEM must be used in off grid as well as grid connected PV and other alternative energy systems.

Loss of mains detection software must be available.

System configuring

- In case of a stand-alone application, if settings have to be changed, this can be done in a matter of minutes with a DIP switch setting procedure.



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- Parallel and three phase applications can be configured with communications Bus Quick Configure and System Configurator software.
- Off grid, grid interactive and self-consumption applications, involving grid-tie inverters and/or MPPT Solar Chargers can be configured with Assistants (dedicated software for specific applications).

On-site Monitoring and control

Several options are available: Battery Monitor, Multi Control Panel, Ve.Net Blue Power Panel, Colour Control Panel, smartphone or tablet (Bluetooth Smart), laptop or computer (USB or RS232).

Remote Monitoring and control

Ethernet Remote and the Colour Control Panel.

Data must be stored and displayed on the website, free of charge.

Remote configuring

When connected to the Ethernet, systems with a Colour Control panel can be accessed remotely and settings can be changed.

Features

- 1) Can be adjusted to 60 HZ: 120 V 60 Hz on request
 - 2) Protection key:
 - a) output short circuit
 - b) overload
 - c) battery voltage too high
 - d) battery voltage too low
 - e) temperature too high
 - f) 230 VAC on inverter output
 - g) input voltage ripple too high
 - 3) Non-linear load, crest factor 3:1
 - 4) At 25°C ambient
 - 5) Switches off when no external AC source available
 - 6) Programmable relay that can a.o. be set for general alarm, DC under voltage or genset start/stop function
- AC rating: 230 V/4A
DC rating: 4 A up to 35 VDC, 1 A up to 60 VDC



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4. COMPLIANCE WITH SPECIFICATION

NO.	DESCRIPTION	SPECIFIED REQUIREMENT
1	BATTERIES	4 x 12V, 105 A/h
1	FEUTURES	PowerControl
		PowerAssist
		Transfer switch 100A
3	INVERTER	Input voltage range (V DC) 9,5 – 17 V 19 – 33 V 38 – 66 V
		Output voltage: 230 VAC \pm 2%
		Frequency: 50 Hz \pm 0,1% (1)
		Cont. output power at 25°C 5000 VA
		Cont. output power at 25°C 4000 W
		Cont. output power at 40°C 3700 W
		Cont. output power at 65°C 3000 W
		Peak power 10 000 W
		Maximum efficiency (%) 94 / 95
		Zero load power (W) 30 / 25
		Zero load power in AES mode 25 / 30
		Zero load power in Search mode 10 / 15
4	CHARGER	AC Input voltage range: 187-265 VAC
		Input frequency: 45 – 65 Hz
		Power factor: 1
		Charge voltage 'absorption' (V DC) 14,4 / 28,8 / 57,6
		Charge voltage 'float' (V DC) 13,8 / 27,6 / 55,2
		Storage mode (V DC) 13,2 / 26,4 / 52,8
		Charge current house battery 120 / 70 A
		Battery temperature sensor
5	GENERAL	Auxiliary output 50 A
		Programmable relay a – g
		Bus communication port For parallel and three phase operation, remote monitoring and system integration
		General purpose com. port



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		Remote on-off
		Common Characteristics Operating temp. range: -40 to +65°C (fan assisted cooling)
		Humidity (non-condensing): max 95%
6	ENCLOSURE	Common Characteristics Material & Colour: aluminium (blue RAL 5012)
		Protection category: IP 21
		Battery-connection: Four M8 bolts (2 plus and 2 minus connections)
		230 V AC-connection: Screw terminals 30 mm ² (6 AWG)
		Weight 18 kg
		Dimensions (hwxwd in mm) 444x328x240
7	STANDARDS	Safety EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1
		Emission, Immunity EN 55014-1, EN 55014-2, EN-IEC 61000-3-2, EN-IEC 61000-3-3, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3
		Road vehicles 12V and 24V models: ECE R10-4
		Can be adjusted to 60 HZ; 120 V 60 Hz on request
8	ADDITIONAL FEUTURES	Protection key:
		a) output short circuit
		b) overload
		c) battery voltage too high
		d) battery voltage too low
		e) temperature too high
		f) 230 VAC on inverter output
		g) input voltage ripple too high
		Non-linear load, crest factor 3:1
		At 25°C ambient
		Switches off when no external AC source available
		Programmable relay that can a.o. be set for general alarm,
		DC under voltage or genset start/stop function
		AC rating: 230 V/4A
		DC rating: 4 A up to 35 VDC, 1 A up to 60 VDC
9	OPTIONS	Battery Monitor,



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		Multi Control Panel,
		Color Control Panel,
		Smartphone or tablet (Bluetooth Smart),
		Laptop or computer (USB or RS232).
10	DATA	Data must be stored and displayed on the website, free of charge

10.0 SPECIFICATION FOR A CABLE ROUTE TRACER

1.0 SCOPE

The tender calls for a cable locator set that must consist of the following: a Receiver, Transmitter and Inductive CT Clamp.

2.0 THE FOLLOWING SPECIAL FEATURES ARE REQUIRED

The Receiver must have the following features. It must have Omni- Directional antennas so that you can hold the receiver in any direction and see the cable as it runs in the direction that it runs.

It must be able to show: multiple underground Live Cables,
dead cables and pipes at the same time.

The unit should also show: Current direction as the direction in a line that the cable runs.
Continually showing the depth and Current on the cable to verify that you are still on the target line. The Receivers must be able show the distortion level.

The Radio frequency must have an option of 4 kHz - 15 kHz

The unit shall have **Built-In GPS** track location for mapping. It shall also have **Bluetooth** technology to stream data to smartphones, tablets, or high-precision GP instruments. A **smartphone/tablet App** shall be freely available to map multiple tracks and waypoints and export to GIS software (Google Earth).

Transmitter

Cable Locator must be supplied with at least a 10 watt transmitter of variable power and frequencies. Must have a LCD screen. Must be able to give instant visual feedback on the on line resistance, current flow and power output. Must include an earth spike fitted into the transmitter.

Inductive Signal Clamp

The cable locator should be supplied with a minimum of a 4 inch Inductive Clamp. LED lights verify operation and ring closure are required as part of the clamp construction.



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3.0 Compliance with Specification

NO.	DESCRIPTION	SPECIFIED REQUIREMENT
1	Display	Mapping
2	Display Line direction	Continually (real time) show the cable direction as a line
3	Depth of cables	Real Time
4	Current display	Real Time
5	Distortion strength	Automatic Continual display
6	All needed information	On same screen
7	Omni-Directional Antennas	Perform inductive and Passive sweeps
8	Omni-Directional Antennas	Show Trace line with Receiver in direction
9	Receiver Frequencies	50Hz; 128Hz to 33kHz;
10	Wireless Technology	Bluetooth Class 1
11	Wireless Range	1000meters
12	GPS Accuracy	Less than 2.5m
13	Free Smartphone/Tablet App	Available on Google Play and Apple App Store
14	Transmitter Power	Minimum of 10Watts

11.0 Specifications High Voltage Detectors with accessories

Nominal voltage (UN)	11/33/88 kV
Type of voltage	a.c.
Insertion depth (IO)	620 mm
Standard	EN/IEC 61243-1 (DIN VDE 0682-411)
Temperature range	-25 °C ... +55 °C, climatic category N
For use at	Indoor and outdoor installations
Application	Switchgear installations and overhead lines
Design	Single pole
Indication	Acoustic and visual



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Self-testing element	Yes
Material (test electrode)	Copper alloy/gal Sn
Material (test prod)	Glass-fibre reinforced epoxy resin tube
Material (indicator)	Plastic, fully insulated
Material (insulating stick)	Glass-fibre reinforced polyester tube
Weight	1,13 kg

Accessories

Sheet Metal Case

Hammer-tone finished with foam padding

Pin-shaped Electrode

For contacting varnished busbars

V-shaped Electrode

For contacting round conductors

Pin-shaped Electrode

For contacting varnished busbars

Straight Test Probe

For switchgear installations with limited access (e.g. Calor Emag/Isopond and Krone/KES).
Not suitable for use in wet weather conditions

Test Prod for Overhead Lines

Test Prod for Switchgear Installations and Overhead Lines

Extender with M12 Threaded Bushing

With plug-in coupling for extending the handle



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90° angled Test Probe

For switchgear installations with limited access and remotely situated contacts.
Not suitable for use in wet weather conditions

12.0 Training

Free On-Site Training must be provided on use of equipment.

13.0 Warranty

At least one year guarantee form the date of delivery with the option to extend for an additional year

14.0 Spares

Guarantee that sufficient stocks of spares for the equipment offered. Suppliers have local capacity for repairs to the equipment offered.



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PRICING SCHEDULE

<u>32kV Trailer: SSG2100 BaurSA32 IRG2000 Cable Rack 25m Isolation Transformer CS40Single 19Rack Large Trailer plus batteries</u>		
PRODUCT	DESCRIPTION	<u>PRICE</u>
SSG2100	SSG2100/19" Surge Generator 32KV DC - no casing	<u>R</u>
Housing	19" Housing 20U with 4/5U scope draw	<u>R</u>
IRG2000 + SKID	IRG2000 Microprocessor Scope (incl SKID)	<u>R</u>
SA32Kh	SA32kH HV Test Interface	<u>R</u>
protrac	protrac® Cable Faults "Acoustics" set	<u>R</u>
Cable Rack	Cable Reel with 25m of HV Cable	<u>R</u>
Big Trailer	Large Test Trailer	<u>R</u>
HV Plug and Single Socket	CS1 CS40 - 40kV Single Socket + Coaxial Male HV plug 40 kV	<u>R</u>
Installation	Labour: Installations - Large Trailer, Flat Floor (220V COC Issued)	<u>R</u>
Supply system	5000 Watt Inverter, 4 x 100 Ah Deep Cycle batteries	<u>R</u>
Trommel	Trommel, 900Lx500Wx450H, 200mm deep with special tray	<u>R</u>
Large Trailer Kit	Earth Spike & Fire Extinguisher & Measuring Wheel & Metrahit ISO	<u>R</u>
Voltage Stick	Discharge and earth rod GDR 40-250 40kV DC 250kOhm 6000Ws	<u>R</u>
Training	Product Training	<u>R</u>
Cable Route Tracer	SR-24 Receiver, 10W Transmitter, 4" Clamp	<u>R</u>
TOTAL Excluding VAT		<u>R</u>
VAT 15%		<u>R</u>
TOTAL Including VAT		<u>R</u>