

INVITATION TO BID



cogta

Department:
Co-operative Governance and Traditional Affairs
PROVINCE OF KWAZULU-NATAL

DESCRIPTION: SUPPLY, MANUFACTURE AND DELIVERY OF A FULLY EQUIPED MOBILE COMMAND VEHICLE FOR THE PROVINCIAL DISASTER MANAGEMENT CENTRE

Bid No. : ZNT 1902/2018 LG

COMPANY NAME : _____

Type of Bidder (Tick One Box)

One-person Business/Sole Trader	
Close corporation	
PTY (Ltd)	
Private Company	
Partnership	
Consortium/Joint Venture	
Co-operative	

Participation Capacity (Tick One Box)

Prime Contractor	
Supplier/Sub-Contractor	

RETURN OF PROPOSAL

Proposal must be deposited in the **Bid box** situated at **Department of Co-operative Governance and Traditional Affairs, Lift Area, 13th floor, North Tower, Natalia Building. 330 Langalibalele Street, Pietermaritzburg, 3201** or received by post to **The Senior Manager: Supply Chain Management, Private Bag X 9078, Pietermaritzburg, 3200** Tel: (033) 395 3134 before **11h00 on 28 FEBRUARY 2019**

A compulsory Site Inspection will take place on 15 FEBRUARY 2019 at 09:00 am at 66 SHORTTS RETREAT ROAD, PROVINCIAL DISASTER MANAGEMENT CENTRE, TRAINING ROOM, MKHONDENI, PMB

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PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)

BID NUMBER:	ZNT 1902/2018 LG	CLOSING DATE:	28 FEBRUARY 2019	CLOSING TIME:	11:00
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DESCRIPTION	SUPPLY, MANUFACTURE AND DELIVERY OF A FULLY EQUIPED MOBILE COMMAND VEHICLE FOR THE PROVINCIAL DISASTER MANAGEMENT CENTRE
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THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT
(STREET ADDRESS)

330 LANGALIBALELE STREET

13TH FLOOR LIFT AREA NORTH TOWER

NATALIA BUILDING

PIETERMARITZBURG

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			

	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE (TICK APPLICABLE BOX)	<input type="checkbox"/> Yes		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	<input type="checkbox"/> Yes	
IF YES, WHO WAS THE CERTIFICATE ISSUED BY?	<input type="checkbox"/> No			<input type="checkbox"/> No	

AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA)	<input type="checkbox"/>	AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA)
A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS)	<input type="checkbox"/>	A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS)
A REGISTERED AUDITOR	<input type="checkbox"/>	A REGISTERED AUDITOR
NAME:		

[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]

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 BELOW]
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SIGNATURE OF BIDDER	DATE	
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CAPACITY UNDER WHICH THIS BID IS SIGNED (Attach proof of authority to sign this bid; e.g. resolution of directors, etc.)

TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE (ALL INCLUSIVE)	
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BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:

TECHNICAL INFORMATION MAY BE DIRECTED TO:

DEPARTMENT/ PUBLIC ENTITY	Department of COGTA	CONTACT PERSON	Mr Jonty Ndlazi
CONTACT PERSON	Ms Lindiwe Madlala	TELEPHONE NUMBER	033 846 9006 / 081 385 8362
TELEPHONE NUMBER	033 395 2174	FACSIMILE NUMBER	
FACSIMILE NUMBER		E-MAIL ADDRESS	jonty.ndlazi@kzncogta.gov.za
E-MAIL ADDRESS	Lindiwe.madlala@kzncogta.gov.za		

PART B

TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:								
<p>1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.</p> <p>1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED--(NOT TO BE RE-TYPED) OR ONLINE</p> <p>1.3. BIDDERS MUST REGISTER ON THE CENTRAL SUPPLIER DATABASE (CSD) TO UPLOAD MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS; AND BANKING INFORMATION FOR VERIFICATION PURPOSES). B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.</p> <p>1.4. WHERE A BIDDER IS NOT REGISTERED ON THE CSD, MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS MAY NOT BE SUBMITTED WITH THE BID DOCUMENTATION. B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.</p> <p>1.5. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER LEGISLATION OR SPECIAL CONDITIONS OF CONTRACT.</p>								
2. TAX COMPLIANCE REQUIREMENTS								
<p>2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.</p> <p>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.</p> <p>2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) 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.</p> <p>2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS TOGETHER WITH THE BID.</p> <p>2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE PROOF OF TCS / PIN / CSD NUMBER.</p> <p>2.6 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.</p>								
3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS								
<table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">3.1. IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?</td> <td style="text-align: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> <tr> <td>3.2. DOES THE BIDDER HAVE A BRANCH IN THE RSA?</td> <td style="text-align: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> <tr> <td>3.3. DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA?</td> <td style="text-align: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> <tr> <td>3.4. DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA?</td> <td style="text-align: right;"><input type="checkbox"/> YES <input type="checkbox"/> NO</td> </tr> </table> <p>IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN, IT IS NOT A REQUIREMENT TO OBTAIN A TAX COMPLIANCE STATUS / TAX COMPLIANCE SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.</p>	3.1. IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO	3.2. DOES THE BIDDER HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO	3.3. DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO	3.4. DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO
3.1. IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	<input type="checkbox"/> YES <input type="checkbox"/> NO							
3.2. DOES THE BIDDER HAVE A BRANCH IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO							
3.3. DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO							
3.4. DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA?	<input type="checkbox"/> YES <input type="checkbox"/> NO							

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SBD 1
STANDARD BID DOCUMENTATION

SECTION A
INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF
THE DEPARTMENT OF CO-OPERATIVE GOVERNANCE AND TRADITIONAL AFFAIRS

BID NUMBER: **ZNT 1902/2018 LG**CLOSING DATE: **28/02/2019**CLOSING TIME: **11:00**

DESCRIPTION: SUPPLY, MANUFACTURE AND DELIVERY OF A FULLY EQUIPED MOBILE COMMAND VEHICLE FOR THE PROVINCIAL DISASTER MANAGEMENT CENTRE

CONTRACT PERIOD: **3 YEARS**VALIDITY PERIOD: **120 DAYS**

The successful bidder will be required to fill in and sign a written Contract Form (SBD 13.2)

BID DOCUMENTS MAY BE POSTED TO:

The Head SCM Unit,
Department Co-operative Governance and Traditional Affairs,
Private Bag X9078,
Pietermaritzburg, 3200

**NOTE: THE POST IS CLEARED FROM THE
PIETERMARITZBURG POST OFFICE BEFORE
10:00 ON DUE DATE**

OR**BID DOCUMENTS DELIVERED BY HAND MUST BE DEPOSITED IN THE BID BOX SITUATED AT:**

Department of Co-operative Governance and Traditional Affairs,
Lift Area, 13th floor, North Tower,
Natalia Building,
330 Langalibalele Street,
Pietermaritzburg

THE BID BOX IS AVAILABLE ON THE FOLLOWING DAYS AND TIME:

**MONDAY TO FRIDAY (EXCLUDING PUBLIC
HOLIDAYS)
08:00 TO 16:00**

Bidders should ensure that bids are delivered timeously to the correct address. If the bid is late, it will not be accepted for consideration.

ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS – (NOT TO BE RE-TYPED)

THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

**THE FOLLOWING PARTICULARS MUST BE FURNISHED
(FAILURE TO DO SO WILL RESULT IN YOUR BID BEING DISQUALIFIED)**

NAME OF BIDDER.....

PROVINCIAL SUPPLIER DATABASE REGISTRATION NO:

POSTAL ADDRESS.....

STREET ADDRESS.....

TELEPHONE NUMBER CODE.....NUMBER.....

CELLPHONE NUMBER.....

FACSIMILE NUMBER CODE.....NUMBER.....

E-MAIL ADDRESS.....

VAT REGISTRATION NUMBER.....

HAS AN ORIGINAL AND VALID TAX CLEARANCE CERTIFICATE BEEN SUBMITTED? (Section B) YES ☐ NO ☐

HAS A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE BEEN SUBMITTED? (Section F) YES ☐ NO ☐

IF YES, WHO WAS THE CERTIFICATE ISSUED BY?

[TICK APPLICABLE BOX]

AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA).....

A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS); OR.....

A REGISTERED AUDITOR

(A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE)

ARE YOU THE ACCREDITED REPRESENTATIVE
IN SOUTH AFRICA FOR THE GOODS / SERVICES / WORKS OFFERED? YES ☐ NO ☐

[IF YES ENCLOSE PROOF]

SIGNATURE OF BIDDER

DATE.....CAPACITY UNDER WHICH THIS BID IS SIGNED

TOTAL BID PRICE: R.....

ANY ENQUIRIES REGARDING THE BIDDING PROCEDURE MAY BE DIRECTED TO:

Department: Co-operative Governance and Traditional Affairs

Contact Person: Ms Lindiwe Madlala

Tel: 033 395 2174

Fax: 086 642 8873/ 033 342 8830

Email: lindiwe.madlala@kzncogta.gov.za

ANY ENQUIRIES REGARDING SPECIFICATION INFORMATION MAY BE DIRECTED TO:

Contact Person: Mr Jonty Ndlazi

Unit: Provincial Disaster Management Centre

Tel: 033 846 9006 / 081 385 8362

Cel:

Email: jonty.ndlazi@kzncogta.gov.za

SECTION B (SBD 2)**TAX CLEARANCE CERTIFICATE REQUIREMENTS**

It is a condition of bid that the taxes of the successful bidder must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

1 In order to meet this requirement bidders are required to complete in full the attached form TCC 001 "Application for a Tax Clearance Certificate" and submit it to any SARS branch office nationally. The Tax Clearance Certificate Requirements are also applicable to foreign bidders / individuals who wish to submit bids.

2 SARS will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of 1 (one) year from the date of approval.

3 The original Tax Clearance Certificate must be submitted together with the bid. Failure to submit the original and valid Tax Clearance Certificate will result in the invalidation of the bid. Certified copies of the Tax Clearance Certificate will not be acceptable.

4 In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Clearance Certificate.

5 Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website www.sars.gov.za.

6 Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website www.sars.gov.za.

Jeyrel:\Mdk416-SBD2 tax clearance

I HAVE READ, UNDERSTOOD AND COMPLY WITH THE SPECIAL INSTRUCTIONS ABOVE:

.....
SURNAME AND INITIALS OF COMPANY REPRESENTATIVE

.....
DATE

.....
SIGNATURE

COMPANY OFFICIAL STAMP

SECTION C (SBD 3)**SPECIAL INSTRUCTIONS AND NOTICES TO BIDDERS REGARDING THE COMPLETION OF BIDDING FORMS**

PLEASE NOTE THAT THIS BID IS SUBJECT TO TREASURY REGULATIONS 16A ISSUED IN TERMS OF THE PUBLIC FINANCE MANAGEMENT ACT, 1991, THE KWAZULU-NATAL SUPPLY CHAIN MANAGEMENT POLICY FRAMEWORK AND THE GENERAL CONDITIONS OF CONTRACT.

1. Unless inconsistent with or expressly indicated otherwise by the context, the singular shall include the plural and visa versa and with words importing the masculine gender shall include the feminine and the neuter.
2. Under no circumstances whatsoever may the bid forms be retyped or redrafted. Photocopies of the original bid documentation may be used, but an original signature must appear on such photocopies.
3. The bidder is advised to check the number of pages and to satisfy himself that none are missing or duplicated.
4. Bids submitted must be complete in all respects.
5. Bids shall be lodged at the address indicated not later than the closing time specified for their receipt, and in accordance with the directives in the bid documents.
6. Each bid shall be addressed in accordance with the directives in the bid documents and shall be lodged in a separate sealed envelope, with the name and address of the bidder, the bid number and closing date indicated on the envelope. The envelope shall not contain documents relating to any bid other than that shown on the envelope. If this provision is not complied with, such bids may be rejected as being invalid.
7. All bids received in sealed envelopes with the relevant bid numbers on the envelopes are kept unopened in safe custody until the closing time of the bids. Where, however, a bid is received open, it shall be sealed. If it is received without a bid number on the envelope, it shall be opened, the bid number ascertained, the envelope sealed and the bid number written on the envelope.
8. A specific box is provided for the receipt of bids, and no bid found in any other box or elsewhere subsequent to the closing date and time of bid will be considered.
9. No bid sent through the post will be considered if it is received after the closing date and time stipulated in the bid documentation, and proof of posting will not be accepted as proof of delivery.
10. No bid submitted by telefax, telegraphic or other electronic means will be considered.
11. Bidding documents must not be included in packages containing samples. Such bids may be rejected as being invalid.
12. Any alteration made by the bidder must be initialed.
13. Use of correcting fluid is prohibited
14. Bids will be opened in public as soon as practicable after the closing time of bid.
15. Where practical, prices are made public at the time of opening bids.
16. If it is desired to make more than one offer against any individual item, such offers should be given on a photocopy of the page in question. Clear indication thereof must be stated on the schedules attached.

SECTION D

REGISTRATION ON THE CENTRAL SUPPLIERS DATABASE

1. In terms of the KwaZulu-Natal Supply Chain Management Policy Framework, all suppliers of goods and services to the Province of KwaZulu-Natal are required to register on the Central Suppliers Database.
2. If you wish to apply for registration, forms may be downloaded from the website, <http://www.kzntreasury.gov.za>, (click on "Document Library" and then choose "Forms") or obtained by phoning the toll free number **0800 201 049**. This number is also available for general enquiries relating to Provincial supply chain management issues.
3. If a business is registered on the Database and it is found subsequently that false or incorrect information has been supplied, then the Department may, without prejudice to any other legal rights or remedies it may have;
 - 3.1 de-register the supplier from the Database,
 - 3.2 cancel a bid or a contract awarded to such supplier, and the supplier would become liable for any damages if a less favourable bid is accepted or less favourable arrangements are made.
4. **The same principles as set out in paragraph 3 above are applicable should the supplier fail to request updating of its information on the Suppliers Database, relating to changed particulars or circumstances.**

DECLARATION THAT INFORMATION ON CENTRAL SUPPLIER DATABASE IS CORRECT AND UP TO DATE

(To be completed by bidder)

THIS IS TO CERTIFY THAT I (name of bidder/authorized representative)

.....

WHO REPRESENTS (state name of bidder).....

AM AWARE OF THE CONTENTS OF THE KWAZULU-NATAL SUPPLIER DATABASE WITH RESPECT TO THE BIDDER'S DETAILS AND REGISTRATION INFORMATION, AND THAT THE SAID INFORMATION IS CORRECT AND UP TO DATE AS ON THE DATE OF SUBMITTING THIS BID.

AND I AM AWARE THAT INCORRECT OR OUTDATED INFORMATION MAY BE A CAUSE FOR DISQUALIFICATION OF THIS BID FROM THE BIDDING PROCESS, AND/OR POSSIBLE CANCELLATION OF THE CONTRACT THAT MAY BE AWARDED ON THE BASIS OF THIS BID.

CENTRAL SUPPLIER DATABASE NO.....

.....
SIGNATURE OF BIDDER OR AUTHORISED REPRESENTATIVE

DATE :.....

SECTION E (SBD 4) DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes an advertised competitive bid, a limited bid, a proposal or written price quotation). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

2.1 Full Name of bidder or his or her representative:

2.2 Identity Number:.....

2.3 Position occupied in the Company (director, trustee, shareholder², member):

2.4 Registration number of company, enterprise, close corporation, partnership agreement or trust:

2.5 Tax Reference Number:

2.6 VAT Registration Number:

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / PERSAL numbers must be indicated in paragraph 3 below.

¹"State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1991 (Act No. 1 of 1991);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

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

2.7 Are you or any person connected with the bidder
presently employed by the state? YES ☐ NO ☐

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member:

Name of state institution at which you or the person
connected to the bidder is employed :

Position occupied in the state institution:

Any other particulars:

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? YES ☐ NO ☐

2.7.2.1 If yes, did you attach proof of such authority to the bid document? YES ☐ NO ☐
(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? YES ☐ NO ☐

2.8.1 If so, furnish particulars:

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? YES ☐ NO ☐

2.9.1 If so, furnish particulars.

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid? YES ☐ NO ☐

2.10.1 If so, furnish particulars.

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract? YES ☐ NO ☐

2.11.1 If so, furnish particulars:

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

Full Name	Identity Number	Personal Income Tax Reference Number	State Employee Number / Persal Number

4 DECLARATION

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

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.

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

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

SECTION F

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

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 000 000.00 (all applicable taxes included); and

1.2

- a) The value of this bid is estimated to **not exceed** R50 000 000.00 (all applicable taxes included) and therefore the **(80/20)** preference point system shall be applicable; or

1.3 Points for this bid shall be awarded for:

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

1.4 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

1.5 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.

1.6 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.

1.7

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 PREFERENCE POINT SYSTEMS

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

80/20

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

Where

- Ps = Points scored for price of bid under consideration
- Pt = Price of bid under consideration
- Pmin = 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 (80/20 system)
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	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)

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 last 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

.....

8.6 COMPANY CLASSIFICATION

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

[TICK APPLICABLE BOX]

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

8.8 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 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

.....

.....

[illegible]

SECTION G

CONDITIONS OF BID

1. I/We hereby bid to supply all or any of the supplies and/or to render all or any of the services described in the attached documents to the KwaZulu-Natal Provincial Administration (hereinafter called the "Province") on the terms and conditions and be in accordance with the specifications stipulated in the bid documents (and which shall be taken as part of and be incorporated into this bid) at the prices and on the terms regarding time for delivery and/or execution inserted therein.
2. I/we agree that:
 - (a) the offer herein shall remain binding upon me and open for acceptance by the Province during the validity period indicated and calculated from the closing time of the bid;
 - (b) this bid and its acceptance shall be subject to Treasury Regulations 16A issued in terms of the Public Finance Management Act, 1991, the KwaZulu-Natal Supply Chain Management Policy Framework, the Provincial Treasury issued Practice Notes, and the KwaZulu-Natal General Conditions of Contract, with which I/we are fully acquainted;
 - (c) if I/we withdraw my bid within the period for which I/we have agreed that the bid shall remain open for acceptance, or fail to fulfil the contract when called upon to do so, the Province may, without prejudice to its other rights, agree to the withdrawal of my bid or cancel the contract that may have been entered into between me and the Province. I/we will then pay to the Province any additional expenses incurred by the Province having either to accept any less favourable bid or, if fresh bids have to be invited, the additional expenditure incurred by the invitation of fresh bids and by the subsequent acceptance of any less favourable bid. The Province shall have the right to recover such additional expenditure by set-off against monies which may be due to me under this or any other bid or contract or against any guarantee or deposit that may have been furnished by me or on my behalf for the due fulfilment of this or any other bid or contract and pending the ascertainment of the amount of such additional expenditure to retain such monies, guarantee or deposit as security for any loss the Province may sustain by reason of my default;
 - (d) if my bid is accepted, the acceptance may be communicated to me by registered post, and that the South African Post Office Limited shall be treated as delivery agent to me;
 - (e) the law of the Republic of South Africa shall govern the contract created by the acceptance of my bid and I choose *domicilium citandi et executandi* in the Republic at (full physical address)

.....

.....
3. I/we furthermore confirm that I/we have satisfied myself as to the correctness and validity of my bid: that the price(s), rate(s) and preference bid cover all of the work/item(s) and my obligations under a resulting contract, and I accept that any mistakes regarding the price(s) and calculations will be at my risk.
4. I/we hereby accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement, as the Principal(s) liable for the due fulfilment of this contract.
5. I/we agree that any action arising from this contract may in all respects be instituted against me and I/we hereby undertake to satisfy fully any sentence or judgement which may be pronounced against me as a result of such action.
5. I/we confirm that I/we have declared all and any interest that I or any persons related to my business has with regard to this bid or any related bids by completion of the Declaration of Interest Section.

SECTION H
PRICING PAGE – FIRM PRICES
(GOODS)

N.B.: This form must be completed in detail, signed by the Bidder and bear the signature of a witness.
 Failure to comply with these requirements may result in the bid being disregarded.

CLOSING DATE AND TIME: 28/02/2019 @ 11:00 VALIDITY PERIOD: 120 DAYS

BID NO: ZNT 1902/2018 LG	PERIOD : ONCE-OFF
Item description: SUPPLY, MANUFACTURE AND DELIVERY OF A FULLY EQUIPED MOBILE COMMAND VEHICLE FOR THE PROVINCIAL DISASTER MANAGEMENT CENTRE	NAME AND ADDRESS OF BIDDER(FIRM) TEL:..... FAX:.....
DOES OFFER COMPLY WITH THE SPECIFICATION? <i>If not, furnish details of deviation in space provided for "Remarks"</i>	YES / NO <i>(Delete which is not applicable)</i>
TOTAL BID PRICE ** (ALL APPLICABLE TAXES INCLUDED)	R
BID PRICE IN WORDS ** (ALL APPLICABLE TAXES INCLUDED)	
REMARKS (If any): (Signature of Bidder) DATE: (Signature of Witness) DATE:.....

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED

****all applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.**

SECTION I (SBD 7) AUTHORITY TO SIGN A BID

A. COMPANIES

If a Bidder is a company, a certified copy of the resolution by the board of directors, personally signed by the chairperson of the board, authorizing the person who signs this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the company must be submitted with this bid, that is before the closing time and date of the bid

AUTHORITY BY BOARD OF DIRECTORS

By resolution passed by the Board of Directors on 20....., Mr/Mrs whose signature appears below) has been duly authorized to sign all documents in connection with this bid on behalf of (Name of Company).....

IN HIS/HER CAPACITY AS:

SIGNED ON BEHALF OF COMPANY:
(PRINT NAME)

SIGNATURE OF SIGNATORY: DATE:

WITNESSES: 1

2

B. SOLE PROPRIETOR (ONE - PERSON BUSINESS)

I, the undersigned..... hereby confirm that I am the sole owner of the business trading as

SIGNATURE.....

DATE.....

C. PARTNERSHIP

The following particulars in respect of every partner must be furnished and signed by every partner:

Full name of partner	Residential address	Signature
-----------------------------	----------------------------	------------------

.....

.....

.....

.....

We, the undersigned partners in the business trading as.....
 hereby authorize to sign this bid as well as any contract resulting from the
 bid and any other documents and correspondence in connection with this bid and /or contract on behalf of (company
 name)

..... SIGNATURE SIGNATURE SIGNATURE
..... DATE DATE DATE

D. CLOSE CORPORATION

In the case of a close corporation submitting a bid, a certified copy of the Founding Statement of such corporation shall be included with the bid, together with the resolution by its members authorizing a member or other official of the corporation to sign the documents on their behalf.

By resolution of members at a meeting on 20..... at.....

..... Mr/Ms....., whose signature appears below, has been authorized to sign all
 documents in connection with this bid on behalf of (Name of Close Corporation)

SIGNED ON BEHALF OF CLOSE CORPORATION:
 (PRINT NAME)

IN HIS/HER CAPACITY AS..... **DATE:**

SIGNATURE OF SIGNATORY:

WITNESSES: 1..... **WITNESS:** 2.....

E. CO-OPERATIVE

A certified copy of the Constitution of the co-operative must be included with the bid, together with the resolution by its members authoring a member or other official of the co-operative to sign the bid documents on their behalf.

By resolution of members at a meeting on 20..... at

Mr/Ms....., whose signature appears below, has been authorized to sign all documents in connection with this bid on behalf of (Name of cooperative)

SIGNED ON BEHALF OF CO-OPERATIVE:.....
(PRINT NAME)

IN HIS/HER CAPACITY AS: **DATE:**

SIGNATURE OF AUTHORISED REPRESENTATIVE/SIGNATORY:

WITNESSES: 1 **WITNESS:- 2**

F. CONSORTIUM

If a bidder is a consortium, a certified copy of the resolution/agreement passed/reached signed by the duly authorized representatives of concerned enterprises, authorizing the representatives who sign this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the consortium must be submitted with this bid, before the closing time and date of the bid.

AUTHORITY TO SIGN ON BEHALF OF THE CONSORTIUM

By resolution/agreement passed/reached by the consortium on 20

Mr/Mrs.....(whose signature appear below) have been duly authorised to sign all documents in connection with this bid on behalf of:

(Name of Consortium).....

SIGNED ON BEHALF OF CLOSE CORPORATION:
(PRINT NAME)

IN HIS/HER CAPACITY AS **DATE:**

SIGNATURE OF SIGNATORY:

WITNESSES: 1 **WITNESS: - 2**

G. JOINT VENTURE

If a bidder is a joint venture, a certified copy of the resolution/agreement passed/reached signed by the duly authorized representatives of the enterprises, authorizing the representatives who sign this bid to do so, as well as to sign any contract resulting from this bid and any other documents and correspondence in connection with this bid and/or contract on behalf of the joint venture must be submitted with this bid, before the closing time and date of the bid.

AUTHORITY TO SIGN ON BEHALF OF THE JOINT VENTURE

By resolution/agreement passed/reached by the joint venture partners on.....20.....

Mr/Mrs.....,Mr/Mrs.....

Mr/Mrs.....and Mr/Mrs.....

(whose signatures appear below) have been duly authorized to sign all documents in connection with this bid on behalf of:(Name of Joint Venture).....

IN HIS/HER CAPACITY AS:

SIGNED ON BEHALF OF (COMPANY NAME):
(PRINT NAME)

SIGNATURE:..... **DATE:**

IN HIS/HER CAPACITY AS:.....

SIGNED ON BEHALF OF (COMPANY NAME):
(PRINT NAME)

SIGNATURE :..... **DATE:**

IN HIS/HER CAPACITY AS:.....

SIGNED ON BEHALF OF (COMPANY NAME):
(PRINT NAME)

SIGNATURE :..... **DATE:**

IN HIS/HER CAPACITY AS:.....

SIGNED ON BEHALF OF (COMPANY NAME):
(PRINT NAME)

SIGNATURE :..... **DATE:**

IN HIS/HER CAPACITY AS:.....

SECTION J (SBD 8)

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 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-
- 4 Abused the institution's supply chain management system; committed fraud or any other improper conduct in relation to such system; or failed to perform on any previous contract.
- 5 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied). 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 pg	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:.....		

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.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

SECTION K (SBD 9)
CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1991, 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 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This SBD 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 (SBD 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.

I, the undersigned, in submitting the accompanying bid:

 (Bid Number and Description)

in response to the invitation for the bid made by:

 (Name of Institution)

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)

4. I have read and I understand the contents of this Certificate;
5. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
6. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
7. 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;

8. 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

9. 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.

10. 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.

11. 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.

12. 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.

9. 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 1991 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

Signature

.....

Date

.....

Position

.....

Name of Bidder

.....

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.

SECTION L SPECIAL CONDITIONS OF CONTRACT

SECTION 1: DEFINITION OF TERMS

1.1 SERVICE

The consultancy services to be rendered by professional service providers must be rendered in terms of this contract.

1.2 CONTRACTOR

The person or persons, partnership, close corporation, firm or company, whose bid for this service was accepted.

1.3 AGREEMENT

This comprises the agreement signed by parties, the conditions of bid, the bid and the specifications.

1.4 AGREEMENT PERIOD

The period during which the service is to be rendered and originally determined in the agreement, or as amended, extended or renewed in accordance with stipulations of the agreement.

1.5 PARTIES

The parties to this contract are The Head of Co-operative Governance and Traditional Affairs in the KwaZulu-Natal Provincial Administration and Contractor.

1.8 DEPARTMENT

KwaZulu-Natal department of Co-operative Governance and Traditional Affairs.

1.9 CURTAILMENT OF SERVICE

The Department reserves the right to withdraw from the service any part/s of the contract as a whole, with one month's written notification to the contractor. In a case such as this, the contract sum will be adjusted *pro rata* from the date of withdrawal.

SECTION 2: IMPORTANT INFORMATION TO NOTE

2.1 This bid is invited and will be awarded and administered in terms of the following:-

- 2.1 KwaZulu-Natal Supply Chain Management Policy Framework,
- 2.2 Section 217 of the Constitution,
- 2.3 The PFMA and its Regulations in general,
- 2.4 The Preferential Procurement Policy Framework Act,
- 2.5 National Treasury guidelines, and
- 2.6 Provincial Treasury's Supply Chain Management Practice Notes and guidelines

2.2

REQUIRED COMPULSORY INFORMATION

2.2.1 The bidder shall ensure that all the required information is furnished; viz:-

- 2.2.1 Declaration that information on Provincial Supplier Database is correct and up to date (SECTION D)
- 2.2.2 Declaration of interest (SECTION E)
- 2.2.3 Tax Clearance Certificate Requirements (SECTION B),
- 2.2.4 Compulsory Briefing Session (SECTION M)
- 2.2.5 Authority to sign a bid (SECTION I),
- 2.2.6 Conditions of Bid (SECTION G)
- 2.2.7 The original Tax Clearance Certificate(s) (and not a copy thereof) must be submitted together with the bid document.
- 2.2.8 Each party to a Consortium/Group of sub-contractors must obtain separate Tax Clearance Certificate(s) and also be registered on the Suppliers Database.
- 2.2.9 Should a supplier have submitted an original Tax Clearance Certificate within the last twelve (12) months to the Department, it will not be necessary to resubmit it, however, same must be indicated in the bid document.
- 2.2.10 A valid certified copy of B-BBEE Status Level Verification Certificate/ Letter from an auditor confirming EME status must be submitted with the proposal.

NOTE: Failure to submit the required information may invalidate the entire proposal.

SECTION 3: SPECIAL CONDITIONS OF CONTRACT

3.1 ACCEPTANCE OF BID

- 3.1.1 This bid has been invited, and will be adjudicated in terms of the KwaZulu-Natal Supply Chain Management Policy Framework and the KwaZulu-Natal Provincial Treasury's Practice Notes. Co-operative Governance and Traditional Affairs' Bid Adjudication Committee is under no obligation to accept the lowest or any bid.
- 3.1.2 The financial standing of bidders and their ability to manufacture or to supply goods or render services may be examined before their bids are considered for acceptance.

3.2 APPEALS

- 3.2.1 Entities aggrieved by a decision of a departmental Bid Adjudication Committee or a delegate of an accounting officer, may appeal to the Bid Appeals Tribunal in the prescribed manner by the Supply Chain Management Policy Framework

3.3 AMENDMENT OF CONTRACT

- 3.3.1 Any amendment to or renunciation of the provisions of the contract shall at all times be done in writing and shall be signed by both parties subject to the Legal Services screening the amendment before it is signed.

3.4 CHANGE OF ADDRESS

- 3.4.1 Bidders must advise the Department should their address (*domicilium citandi et executandi*) details change from the time of bidding to the expiry of the contract.

3.5 COMMUNICATION

- 3.5.1 All correspondence with regard to this bid must be addressed or hand delivered to the:

The Head SCM Unit,
Department Co-operative Governance and Traditional Affairs,

Private Bag X9078,
Pietermaritzburg
3200

ENQUIRIES: **Ms Lindiwe Madlala** TEL.: 033-395 2174

3.6 COMPLETENESS OF BID

3.6.1 Bids will only be considered if correctly completed and accompanied by all relevant certificates and other necessary applicable information.

3.7 COMPLETION OF SPECIFICATION

3.7.1 Where specifications are designed in such a way that responses would be required from bidders, these forms must be completed and submitted as part of the bid document.

3.8 CONDITIONS OF BID

3.8.1 The successful Contractor must be in a position to assume duty on the date stipulated in the letter of acceptance.

3.8.2 No bid received by telegram, telex, or facsimile will be considered.

3.8.3 It shall be noted that the Department is under no obligation to accept the lowest or any bid.

3.8.4 The offer shall be made strictly according to the specification. No alternative offers will be considered.

3.8.5 Bidders must provide the following particulars about themselves as part of the bid:

3.8.5.1 Where they have their Headquarters

3.8.5.2 Where they have their Regional Office.

3.8.5.3 Name, address and telephone number of bankers together with their bank account number.

3.8.5.4 The names, identity numbers and street addresses of all partners in cases where persons, a partnership, or a firm consists of a partnership.

3.9 In cases where a person or persons, a partnership, close corporation, firm or company enters business for the very first time, the following particulars shall be provided:

3.9.1 By whom, or with whose assistance, was the business plan drafted?

3.9.2 By whom, or with whose assistance, were the bid prices calculated?

3.9.3 Whose advice is relied on?

3.9.4 Who will provide financial support?

3.10 A list of references must accompany this bid. Particulars shall be submitted regarding similar agreements completed successfully or of projects which the bidder is engaged in.

3.11 CONFIDENTIALITY

The contractor's staff that comes into contact with the Department's confidential information and documents may be required to sign confidentiality agreements so as to protect the Department's information.

3.12 CONTRACT PERIOD

3.12.1 The contract period shall remain in force for a period of once-off from date of signing of official contracts.

3.12.2 The Department of Co-operative Governance and Traditional Affairs reserves the right to terminate the contract with any contractor should the contractor fail to fulfil his/her contractual obligations in terms of the contract.

3.13 DETAILS OF CURRENT CONTRACTS HELD BY THE BIDDER

3.13.1 The bidder must furnish the following details of all current contracts:

- (i) Date of commencement of contract/s;
- (ii) Expiry date/s;
- (iii) Value per contract; and
- (iv) Contract details. That is, with whom held, phone number and address/s of the company.

3.14 EQUAL BIDS

3.14.1 In the event that two or more bids have equal total points, the successful bid will be the one scoring the highest number of preference points for specified goals. Should two or more bids be equal in all respects, the Adjudication shall be decided by the drawing of lots.

3.15 EXECUTION CAPACITY

3.15.1 The bidder will be required to provide an efficient and effective service. Therefore, the bidder is required to submit proof that he/she has the required capacity to execute the contract tendered for successfully. The bidder must supply references or state his/her experience as a company to undertake the contract. References of past experience of owners/employees of new entities must accompany the bid document.

3.16 EXTENSION OF CONTRACT

3.16.1 An extension of contract may be considered. It is the normal policy that contracts are not extended. However, circumstances may arise whereby a contract cannot be renewed in time. If this is found to be the case, the right is reserved to approach existing contractor(s) to extend the contract for such period agreed to.

3.17 GENERAL EVALUATION CRITERIA

The Bid Evaluation Committee will assess offers and adhere to the following basic guidelines when evaluating.

- a. Whether all the required information called for in the bid document has been submitted by the bidder.
- b. Has the bidder supplied references or stated his/her experience as a Company to undertake the contract. References of past experience must accompany the bid document.
- c. The financial standing of the bidder and ability to render a service may be examined before an award of bid take place.
- d. Preferences will be taken into consideration by the Department in terms of the B-BBEE Scorecard.
- e. Documented reports received from an institution/s pertaining to past bad performance by a company who is tendering, may be taken into consideration.
- f. Did the bidder attend the site inspection?
- g. Will the bidder be in a position to successfully execute the contract?
- h. The 80/20 Point System will apply in the evaluation of this bid.

3.18 IRREGULARITIES

2.18.1 Companies are encouraged to advise the Department timeously of any possible irregularities which might come to their notice in connection with this or other contracts.

3.19 JOINT VENTURES

3.19.1 In terms of the Supply Chain Management Policy Framework, a consortium or joint venture may, based on the percentage of the contract value managed or executed by respective members.

3.19.2 Should this bid be submitted by a joint venture, a certified copy of the joint venture agreement **must** accompany the bid document before the closing date and time of bid. The joint venture

agreement must clearly specify the percentage of the contract to be undertaken by each company participating therein.

- 3.19.3 A trust, consortium or joint-venture must obtain and submit a **consolidated B-BBEE Status Level Verification Certificate**. The non-submission of a consolidated B-BBEE Certificate by a company will result in preference points not being allocated to such company. Failure to submit the joint venture Agreement will result in preference points not being allocated to all companies participating in the joint venture.

3.20 LATE BIDS

- 3.20.1 Bids are late if they are received at the address indicated in the bid documents after the closing date and time.
- 3.20.2 A late bid shall not be considered and, where practicable, shall be returned unopened to the Bidder, accompanied by an explanation.

3.21 NOTIFICATION OF ADJUDICATION OF BIDDER & ADVERTISING OF RESULTS

- 3.21.1 Notification of the Adjudication of bid shall be in writing by a duly authorized official of Co-operative Governance and Tradition Affairs' Supply Chain Management unit.

3.22 PRO RATA DECREASE OF COMPENSATION

- 3.22.1 Should the services not be rendered to the satisfaction of the Department and unsatisfactory items/ aspects/ events have already, in writing, been brought to the attention of the Contractor, the Department reserves the right in terms of paragraph **3.27** hereunder, to retain payment to the Contractor for as long as the unsatisfactory service continues.

3.23 CENTRAL SUPPLIERS DATABASE

- 2.23.1 A bidder submitting an offer must be registered on the Central Suppliers Database. A bidder who has submitted an offer and is not registered on the Central Suppliers Database will not be considered.
- 3.23.2 Each party to a Joint Venture/Consortium must be registered on the Central Suppliers Database at the time of submitting the bid.

3.24 SUBMISSIONS AND COMPLETION OF SBD 6.1

- 3.24.1 Bidders are to complete SBD 6.1 document where applicable. Failure by the bidder to submit a valid B-BBEE status level verification certificate will result in the bidder not being considered for preference points allocation. If the information required is not applicable to the business, clearly insert the symbols "N/A" in the appropriate space. If the space provided is left blank, it will be regarded as information that is still outstanding and the SBD 6.1 will not be processed further.

3.25 TERMINATION OF SERVICES

- 3.25.1 Should the Contractor fail to meet the conditions of this contract, or continue rendering unsatisfactory service, the Employer reserves the right to terminate the contract, after written notification has been served on the Contractor, with retention of the right to recover from the Contractor any losses which the Employer may suffer/ incur as a result of the failure, without prejudicing any other rights it may have.

3.26 TAX CLEARANCE CERTIFICATE

- 3.26.1 The original Tax Clearance Certificate must be submitted with the bid before the closing date and time of the bid. Failure to submit a valid Tax Clearance Certificate will invalidate your bid unless a valid, as at the closing date of this bid, original Tax Clearance Certificate is already in the possession of the Departments Supply Chain Management Unit. In this regard, a clear reference must be provided e.g. bid number.

- 3.26.2 Each party to a Joint Venture/Consortium must submit an original valid Tax Clearance Certificate

together with the bid before the closing date and time of bid.

3.27 UNSATISFACTORY PERFORMANCE

3.27.1 Unsatisfactory performance occurs when performance is not in accordance with the contract conditions.

- (i) Before any action is taken, the Department shall warn the contractor by registered/certified mail that action will be taken in accordance with the contract conditions unless the contractor complies with the contract conditions and delivers satisfactory supplies or services within a specified reasonable time (7 days minimum). If the contractor does not perform satisfactorily despite the warning the Department will:
 - (a) take action in terms of its delegated powers
 - (b) make a recommendation for cancellation of the contract concerned.

3.28 VALIDITY PERIOD AND EXTENSION THEREOF

3.28.1 The validity (binding) period for the bid must be **120** days from close of bid. However, circumstances may arise whereby this Department may request the bidders to extend the validity (binding) period. Should this occur, the Department will request bidders to extend the validity (binding) period under the same terms and conditions as originally tendered for by bidders. This request will be done before the expiry of the original validity (binding) period.

3.29 VAT

2.29.1 Bid prices must be inclusive of VAT.

2.29.2 A tax invoice shall be in the currency of the Republic of South Africa and shall contain the following particulars:

- (a) The name, address and registration number of the supplier;
- (b) the name and address of the recipient;
- (c) an individual serialized number and the date upon which the tax invoice is issued;
- (d) a description of the goods or services supplied;
- (e) the quantity or volume of the goods or services supplied;
- (f) either :–
 - (i) the value of the supply, the amount of tax charged and the consideration for the supply; **or**
 - (ii) where the amount of tax charged is calculated by applying the tax fraction to the consideration, the consideration for the supply and either the amount of the tax charged, or a statement that it includes a charge in respect of the tax and the rate at which the tax was charged.

3.30 REGISTERED ADDRESS

The Department provides the following:

Street address as it's *domicillium citandi et executandi* in respect of any lawsuit which might result from or bears relevance to this contract, as well as for purposes of notice to :

The Head SCM Unit, KwaZulu-Natal Co-operative Governance and Traditional Affairs

14 th floor, South Tower, Natalia Building. 330 Langalibalele Street PIETERMARITZBURG 3200	Private Bag X9078, PIETERMARITZBURG 3200
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SECTION M

OFFICIAL BRIEFING SESSION/SITE INSPECTION CERTIFICATE

Site/building/institution involved: **66 SHORTTS RETREAT ROAD, PROVINCIAL DISASTER MANAGEMENT CENTRE, TRAINING ROOM, MKHONDENI, PMB**

Bid No: **ZNT 1902/2018 LG**

Service: **SUPPLY, MANUFACTURE AND DELIVERY OF A FULLY EQUIPED MOBILE COMMAND VEHICLE FOR THE PROVINCIAL DISASTER MANAGEMENT CENTRE**

THIS IS TO CERTIFY THAT (NAME):

ON BEHALF OF:

ATTENDED THE BRIEFING SESSION ON: **15 FEBRUARY 2019 at 09:00 am at 330 LANGALIBALELE STREET, NATALIA BUILDING, 1st FLOOR, AUDITORIUM, PIETERMARITZBURG., PIETERMARITZBURG.**

AND IS THEREFORE FAMILIAR WITH THE CIRCUMSTANCES AND THE SCOPE OF THE SERVICE TO BE RENDERED.

.....
SIGNATURE OF BIDDER OR AUTHORISED REPRESENTATIVE
(PRINT NAME)

DATE:

.....
SIGNATURE OF DEPARTMENTAL REPRESENTATIVE
(PRINT NAME)

.....
DEPARTMENTAL STAMP:
(COMPULSORY)

DATE:



cogta

**Department:
Co-operative Governance and Traditional Affairs
PROVINCE OF KWAZULU-NATAL**

ZNT1902/2018LG

**SUPPLY, MANUFACTURE AND DELIVERY OF
A FULLY EQUIPED MOBILE COMMAND
VEHICLE FOR THE PROVINCIAL DISASTER
MANAGEMENT CENTRE**

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TECHNICAL SPECIFICATION**MANUFACTURE AND DELIVERY OF A FULLY EQUIPPED COMMAND VEHICLE FOR DISASTER MANAGEMENT FOR A TWELVE MONTH PERIOD FROM THE 1ST OF THE MONTH FOLLOWING THE LETTER OF ACCEPTANCE**

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1. 42" & 55" Displays
2. Intel I7 Workstations
3. Network video recording software
4. 24 port Gigabit switch with full POE for all ports Managed
5. Dual sim 3G Router for internet connection
6. Rugged Wireless Access point
7. PA system
8. 10 KVA UPS system
9. 6M Telescopic pole
10. 2MP PTZ camera
11. 640 x 480 Network Thermal camera
12. 5MP Fixed overview camera + PTZ head
13. Wireless PTZ Dome Network Camera (with pressurised, stainless steel high-speed PTZ dome
14. Loud speaker
15. Intercom system
16. Generator
17. Mobile Satellite system
18. Interior sink
19. Water tank
20. Electronic siren
21. Warning light package
22. Command light tower with back light option
23. Escape hatch and skylight
24. Air-conditioning system
25. Interior pedestal seats
26. Water cooler
27. Microwave
28. Clocks with temperature
29. Roof
30. MAST
31. Windows
32. Storage compartments
33. Access steps
34. GM360 Base Radios
35. DSTV Connection
36. Reflective stripe
37. Signwriting
38. Vehicle colours

- 39. Led spotlight
- 40. Chassis
- 41. Body
- 42. Interior and exterior
- 43. Electrical power supply
- 44. Safety and security
- 45. Maintenance and replacement
- 46. Cellular connectivity

1. DISPLAYS	1.1 2 x "42" RUGGED INDUSTRIAL DISPLAYS	1.1.1 42" LCD support full HD 1080P 1.1.2 Built-in Intel Core i5 2.4 GHz mobile processor 1.1.3 Wide view angel 89/89/89/89° 1.1.4 Integrated with multi-touch screen (support multiple fingers interactive on Win7) 1.1.5 Built-in tempered glass to prevent the damage from abnormal behaviour 1.1.6 Support landscape & portrait position 1.1.7 High flexibility options support UTC peripheral series 1.1.8 Industrial rugged design to withstand harsh environment
	1.2 2 x "55" RUGGED INDUSTRIAL DISPLAYS	1.2.1 55" LCD support full HD 1080P 1.2.2 Built in Intel core i5 2.4 mobile processor 1.2.3 Wide view angel 89/89/89/89° 1.2.4 Integrated with multi-touch screen (support multiple fingers interactive on Win7) 1.2.5 Built-in tempered glass to prevent the damage from abnormal behaviour 1.2.6 Support landscape & portrait position 1.2.7 High flexibility options support UTC peripheral series 1.2.8 Supports AMT6.0 and software RAID0, 1,5,10 1.2.9 Industrial rugged design to withstand harsh environment.
1. 7 x INTEL i7 WORKSTATIONS	2.1 MOBILE NVR SURVEILLANCE SYSTEM	2.1.1 Support Intel Core i7 Socket Processor 2.1.2 Mobile Intel QM57 PCH 2.1.3 Dual Intel Gigabit Ethernet Ports 2.1.4 Dual VGA / DVI or VGA / HDMI or DVI / HDMI Display 2.1.5 3 x RS-232 and 1 x RS-232/422/485 with auto flow 2.1.6 On board DC to DC Power design to support 9 to 30V DC Power input 2.1.7 Support ATX power mode and PXE/WoL 2.1.8 8 x Integrated POE Ports 2.1.9 Support 3G / Wi-Fi / GPS Communications 2.1.10 4GB Ram 2.1.11 4 x 1TB Hard Drive 2.1.12 AC Adaptor 2.1.13 WES 7 2.1.14 Power ignition module 2.1.15 Anti-Vibration Kit
2. NETWORK VIDEO RECORDING SOFTWARE	3.1 CONTROL ROOM SOFTWARE	3.1.1 All software must be compatible with at least 10 different camera types. 3.1.2 All software must have License Plate Recognition available to integrate to mobile units should be required at later date. (Include in current bid) 3.1.3 IO Support must be possible to alarms or Moxa units (future requirement) This is required to make PTZ cameras turn to alarm points on activation of alarm. 3.1.4 PTZ control must be available on software-overlay popup on screen 3.1.5 Server Software must be able to do multiple monitor support up to at least 8 monitors per server. (Without the need of additional servers for display

		<p>3.1.6 Software must include an HTML remote viewer to view all cameras.</p> <p>3.1.7 Software must include an HTML remote viewer to view the history of at least 1 camera at a time.</p> <p>3.1.8 Licensing for 5 years Must be included</p>
<p>3. 24 PORT GIGABIT SWITCH WITH FULL POE FOR ALL PORTS MANAGED</p>	<p>4.1 24 PORT POE SWITCH WITH 4 GIGABIT PORTS</p>	<p>4.1.1 Network protocol and Standards compatibility: IEEE802.3 10Base – T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3 x full – duplex flow control IEEE802.3af (Power over Ethernet)</p> <p>4.1.2 Power Supply: Power Consumption: 256W Maximum</p> <p>4.1.3 100-240 VAC / 50 – 60- HZ universal input</p> <p>4.1.4 PoE Budget: 192W</p> <p>4.1.5 Network Ports: 24 10/100 Mbps auto sensing fast Ethernet</p> <p>4.1.6 4 10/100/1000 Mbps auto sensing gigabit Ethernet switching ports</p> <p>4.1.7 2 Dual personality SFP slots</p> <p>4.1.8 Physical Dimensions: (440w x 257d x 43mm)</p> <p>4.1.9 Weight: 3.57kg</p> <p>4.1.10 Operating temperature: (0°C to 50°C)</p> <p>4.1.11 Storage temperature: (-20°C to 70°C)</p> <p>4.1.12 Operating humidity: 90% maximum relative humidity, non-condensing</p> <p>4.1.13 Storage humidity: 95% maximum relative humidity, non-condensing</p>
<p>4. DUAL SIM 3G MUST BE SUPPLIED IN A ROUTER OR IN ANY OTHER WAY THAT ALLOWS CONSTANT INTERNET CONNECTION FROM BEST CONNECTION</p>		<p>Supply and install for the 3 year period with unlimited data connection from a reliable internet service provider.</p>
<p>5. RUGGED WIRELESS ACCESS POINT</p>		<p>6.1.1 Must be Compliant with IEEE 802.11 b/g/n</p> <p>6.1.2 IP55 Waterproof certification</p> <p>6.1.3 Embedded 8 dBi directional antenna with N- type connector for optional antenna</p> <p>6.1.4 High output power 26dBm</p> <p>6.1.5 MIMO 1 X 11n</p> <p>6.1.6 Passive 12V PoE</p> <p>6.1.7 Support distances up to 5km</p> <p>6.1.8 WPA/WPA2 – Enterprise encryption for a highly secure wireless network</p> <p>6.1.9 WEP/WPA/WPA2/IEE 802.1 x authentication support.</p> <p>6.1.10 Spanning Tree and IGMP snooping protocol support</p>
<p>6. PA SYSTEM</p>	<p>7.1 MOBILE AMPLIFIERS</p>	<p>7.1.1 Mobile amplifier for remote applications</p> <p>7.1.2 12VDC Powered battery supplied</p> <p>7.1.3 Must be Rugged & reliable</p> <p>7.1.4 Be able to Supports 4 speaker loads</p>

		<p>7.1.5 Two microphone inputs with volume controls</p> <p>Auxiliary Input for connecting an external CD player, radio, tape deck or tone generator</p> <p>Must be compact and light weight</p> <p>All inputs must be easily accessible and located on the front panel.</p> <p>The unit must include all required mounting hardware including microphone holder, mounting bracket and screws for mounting.</p>
7. 10 KVA UPS SYSTEM		<ol style="list-style-type: none"> Power Rating: 10,000VA/10,000W Topology: Double-conversion Online Input Voltage: 230V (220V,240V selectable) Battery: Maintenance –free sealed lead-acid battery with suspended electrolyte. Must be leak proof. Backup Time: ½ load – 11.5min, Full load – 3.8min Control Panel: Must support a high resolution LCD Display Must support embedded network management with environmental monitoring Rack Height: 6U Physical: Height 263mm, Width 432mm, Depth 715mm, Weight 112kg. Must include rail kit. <p>External battery pack (Rack mount) must be supported</p>
8. 6M TELESCOPIC POLE		<ol style="list-style-type: none"> 9.1 Mast Sections: Heat treated aluminium alloy. 9.2 Castings: Die cast aluminium alloy LM6 9.3 Finishes: Fittings Zinc plated and passivated Paint, standard colour white. Mast sections anodised natural finish. 9.4 Operating Temperatures: +55°C to -40°C (dry) 9.5 Lubrication: Silicone Grease 9.6 Retracted 1,73m 9.7 Extended 6m 9.8 Headload 100kg 9.9 Fully automatic pneumatic and hoisted by remote 9.10 Must include compressor to hoist 9.11 Cable Guides must be include for limited movement when mounted 9.12 Clamp collars for long hoisting must be Included.
<u>CAMERAS</u>		
9. 2MP PTZ DOME CAMERA	10.1 GENERAL	<p>General Requirements:</p> <ol style="list-style-type: none"> 10.1.1 The camera shall be of manufacturer's official product line, designed for commercial/industrial 24/7/365 use. 10.1.2 The camera shall be based upon standard components and proven technology using open and published protocols.

	10.2 Quality Assurance	<p>10.2.1 All camera installation, configuration, setup, program and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of the equipment provided.</p> <p>10.2.2 All equipment provided shall be backed by a minimum of three years manufacturer warranty.</p> <p>10.2.3 The specified unit shall be manufactured in accordance with ISO 9001.</p>
	10.3 Environmental sustainability	<p>10.3.1 The specified unit shall be manufactured in accordance with ISO 14001.</p> <p>10.3.2 The specified unit shall be compliant with the EU directives 2011/65/EU (RoHS) and 2012/19/EU (WEEE).</p> <p>10.3.3 The specified unit shall be compliant with the EU regulation 1907/2006 (REACH).</p>
	10.3 Certifications and standards	<p>10.3.1 <u>The camera shall carry the following EMC approvals:</u></p> <ol style="list-style-type: none"> 1. EN55022, EN55024 2. FCC Part 15 - Subpart B 3. VCCI 4. C-tick AS/NZS CISPR22 5. ICES-003 <p>10.3.2 <u>The camera shall meet the following product safety standards</u></p> <ol style="list-style-type: none"> 1. IEC/EN/UL 60950-1 2. IEC/EN/UL 60950-22 <p>10.3.3 <u>The camera shall meet the following standards</u></p> <p>MPEG-4:</p> <ol style="list-style-type: none"> 1. ISO/IEC 14496-10 AVC (H.264) <p>10.4.4 Networking:</p> <ol style="list-style-type: none"> 2. IEEE 802.1X (Authentication) 3. IPv4 (RFC 791) 4. IPv6 (RFC 2460) 5. QoS – DiffServ (RFC 2475) <p>10.4.5 Network video</p> <p>ONVIF Profile S or ONVIF Version 1.01 or higher as defined by the ONVIF organization.</p> <p>10.4.6 Mechanical environment:</p> <ol style="list-style-type: none"> 1. IEC/EN 60529 IP66 2. NEMA 250 Type 4X

		3. IEC/EN 62262 IK10
	10.5 General	<p>10.5.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be designed to provide at least two video streams in HDTV 1080p (1920x1080) at up to 30 frames per second (60Hz mode) or 25 frames per second (50Hz mode) using H.264 or Motion JPEG. 2. Operate on an open source; Linux-based platform, and including a built-in web server. 3. Be equipped with a slot for SD/SDHC/SDXC memory card expansion, supporting memory up to 64 GB - speed class 10. 4. Utilize a separate power injector allowing the camera and heater/fan functions to be powered over the network cable.
	10.6 Hardware	<p>10.6.1 <u>The camera shall:</u></p> <p>Use a progressive scan sensor.</p> <ol style="list-style-type: none"> 1. Be equipped with an automatically and manually removable IR-cut filter, providing so-called day/night functionality. 2. Provide pictures down to 0.6 lux in color and down to 0.04 lux in B/W. 3. Be equipped with accurate high-speed pan-tilt functionality with 360° endless pan range and a 220° tilt range. 4. Provide pan and tilt speed between 0.05° - 450°/sec. 5. Support memory expansion by providing an available SD/SDHC/SDXC card slot, supporting memory up to 64 GB - speed class 10.
	10.7 Video	
	10.8 Resolution	<p><i>The camera shall be able to deliver at least two individually configurable full resolution full frame rate video streams over IP networks.</i></p> <p><u>Supported video resolutions shall include:</u></p> <ol style="list-style-type: none"> 1. 320x180 2. 480x270 3. 800x450 4. HDTV 720p (1280x720) 5. HDTV 1080p (1920x1080)

	10.9 Encoding	<p>10.9.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Support Motion JPEG encoding in a selectable range from 1 up to 30/25 frames per second in all resolutions. 2. Support Main Profile H.264 encoding with motion estimation and context-adaptive binary arithmetic coding (CABAC) in up to 25/30 frames per second in all resolutions. 3. Support Baseline Profile H.264 encoding with motion estimation in up to 25/30 frames per second in all resolutions. 4. Be able to provide independently configured simultaneous H.264 and Motion JPEG streams. 5. Support both Constant Bit Rate (CBR) and Variable Bit Rate (VBR) in H.264. 6. Provide configurable compression levels. 7. Support motion estimation in H.264.
	10.10 Transmission	<p>10.10.1 <u>The camera shall allow for video to be transported over:</u></p> <ol style="list-style-type: none"> 1. HTTP (Unicast) 2. HTTPS (Unicast) 3. RTP (Unicast & Multicast) 4. RTP over RTSP (Unicast) 5. RTP over RTSP over HTTP (Unicast) 6. The camera shall support Quality of Service (QoS)
	10.11 Image control	<p>10.11.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Incorporate Automatic and Manual White Balance. 2. Be equipped with an electronic shutter. 3. Incorporate an electronic shutter operating in the range 1/33000 s to 1/3 s (50 Hz). 4. Incorporate an electronic shutter operating in the range 1/33000 s to 1/4 s (60 Hz). 5. Support automatic and manually defined exposure zones. 6. Be equipped with Wide Dynamic Range functionality. 7. Provide Back Light Compensation. 8. Incorporate a function for optimization of low light behaviour. 9. Allow for rotation of the image. 10. Provide Highlight compensation

	Functionality	
	10.12 Web server	<p>10.12.1 The camera shall contain a built-in web server making video and configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.</p> <p>10.12.2 Optional components downloaded from the camera for specific tasks, e.g. Active X, shall be signed by an organization providing digital trust services, such as VeriSign, Inc.</p>
	10.13 IP addresses	<p>10.13.1 The camera shall support both fixed IP addresses and dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.</p> <p>10.13.2 The camera shall allow for automatic detection of the Camera based on UPnP and Bonjour when using a PC with an operating system supporting this feature.</p> <p>10.13.3 The camera shall provide support for both IPv4 and IPv6.</p>
	10.14 PTZ functionality	<p>10.14.1 <u>The camera shall:</u></p> <p>Provide more than 255 pre-set positions.</p> <ol style="list-style-type: none"> 1. Provide e-flip functionality, which will automatically rotate the image 180° electronically when following a moving object passing under the camera. 2. Provide a guard tour functionality which allows the dome to automatically move between selected pre-sets using an individual speed and viewing time for each pre-set. 3. Be able to record a custom PTZ tour, operated using an input device such as a joystick, mouse or keyboard, and then use and recall this as a guard tour. 4. Be able to detect and automatically follow moving objects in the cameras field of view. 5. Provide On-screen directional indicator (OSDI) functionality. 6. Be equipped with accurate high-speed pan-tilt functionality with 360° endless pan range and a 220° tilt range. 7. Provide pan and tilt speed between 0.05° - 450°/sec. 8. Provide 20x optical zoom. 9. Provide 12x digital zoom.

	10.15 Event functionality	<p><u>10.15.1 The camera shall be equipped with an integrated event functionality, which can be triggered by:</u></p> <ol style="list-style-type: none"> 1. Live Stream Accessed 2. Video Motion Detection 3. Casing Open 4. Fan malfunction 5. Heater malfunction 6. Temperature 7. Edge storage disruption detection 8. Embedded third party applications 9. Manual Trigger/Virtual Inputs 10. PTZ functionality 11. Shock Detection <p><u>10.16.2 Response to triggers shall include:</u></p> <ol style="list-style-type: none"> 1. Send notification, using HTTP, HTTPS, TCP or email 2. Send images, using FTP, HTTP, HTTPS, network share or email 3. Send video clip, using FTP, HTTP, HTTPS, network share or email 4. Recording to local storage and/or network attached storage 5. PTZ control functionality 6. Day/Night Vision Mode 7. Overlay Text 8. The camera shall provide memory for pre & post alarm recordings. 9. Event functions shall be configurable via the web interface.
	10.17 Edge storage	<p><u>10.17.1 The camera shall support continuous and event controlled recording to:</u></p> <ol style="list-style-type: none"> 1. Local memory added to the cameras SD-card slot 2. Network attached storage, located on the local network <p><u>3. The camera shall be able to detect and notify Edge storage disruptions</u></p>
	10.18 Language	<p>10.18.1 The camera shall provide a function for altering the language of the user interface, and shall include support for at least 10 different languages.</p>
	10.19 Protocol	<p>10.19.1 The camera shall incorporate support for at</p>

	support	<p>least IP, HTTP, HTTPS, SSL/TLS, TCP, ICMP, SNMPv1/v2c/v3 (MIB-II), RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, ARP, DNS, DynDNS, SOCKS, NTP, CIFS/SMB and Bonjour.</p> <p>10.19.2 The SMTP implementation shall include support for SMTP authentication.</p>
	10.20 Text overlay	<p><u>10.20.1 The Camera shall:</u></p> <ol style="list-style-type: none"> 1. Provide embedded on-screen text with support for date & time, and a customer-specific text, camera name, of at least 45 ASCII characters. 2. To ensure accuracy, the camera shall accept external time synchronization from an NTP (Network Time Protocol) server. 3. Provide the ability to apply 3D privacy masks to the image. 4. Allow for the overlay of a graphical image, such as a logotype, into the image.
	10.21 Security	<p><u>10.21.1 The camera shall:</u></p> <ol style="list-style-type: none"> 1. Support the use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams. 2. The camera shall provide centralized certificate management, with both pre-installed CA certificates and the ability to upload additional CA certificates. The certificates shall be signed by an organization providing digital trust services. 3. Support IEEE 802.1X authentication. 4. Provide support for restricting access to pre-defined IP addresses only, so-called IP address filtering. 5. Restrict access to the built-in web server by usernames and passwords at three different levels.
	10.22 API support	<p>10.22.1 The camera shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications.</p> <p>10.22.2 The camera shall conform to ONVIF Profile S or ONVIF Version 1.01 or higher as defined by the ONVIF organization, and shall be upgradable at any time.</p>
	10.23 Embedded applications	<p>10.23.1 The camera shall provide a platform allowing the upload of third party applications into the camera.</p> <p>10.23.2 The camera vendor shall provide a compatibility tool for the application vendor to verify the stability and performance impact of their uploaded application.</p>

	10.24 Installation and Maintenance	<p>10.24.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be supplied with Windows-based management software, which allows the assignment of IP addresses, upgrade of firmware and backup of the Cameras' configuration. 2. Support the use of SNMP-based management tools according to SNMP v1, 2c & 3 / MIB-II. 3. Allow updates of the software (firmware) over the network, using FTP or HTTP. 4. Provide the ability to apply a rectangle of customer-defined number of pixels to the image, which can be used as a pixel counter identifying the size of objects in number of pixels. <p>5. All customer-specific settings shall be stored in a non-volatile memory and shall not be lost during power cuts or soft reset.</p>
	10.25 User logs	<p>10.25.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Provide a log file, containing information about the 250 latest connections and access attempts since the unit's latest restart. 2. The file shall include information about the connecting IP addresses and the time of connecting. 3. Provide a connection list of all currently connected viewers. The file shall include information about connecting IP address, time of connecting and the type of stream accessed.
	10.26 Camera diagnostics	<p>10.26.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be equipped with an LED, indicating the camera's functional status. 2. Be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart the unit if a malfunction is detected. <p><i>3. The camera shall send a notification when the unit has re-booted and all services are initialized</i></p>
	Interfaces	
	10.27 Network interface	<p>10.27.1 The camera shall be equipped with one 100BASE-TX Fast Ethernet-port, using a standard RJ-45 socket and shall support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex).</p>
	10.28 Enclosure	<p>The camera enclosure shall include the following:</p> <ol style="list-style-type: none"> 1.Manufactured with an all-metal body 2.Removable sunshield 3.Temperature sensors 4.Heaters

		5.Fans
	10.29 Power requirements	10.29.1 100-240 VAC / 50-60 Hz, max 60 W –provided to the camera through the network cable by a separate injector, supplied with the camera.
	10.30 Environmental	<p>10.30.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Operate in a temperature range of -40°C to +50°C (-40°F to +122°F). 2. Operate in a humidity range of 10–100% RH (condensing). 3. Be equipped with Arctic Temperature Control, allowing camera start-up at temperatures down to -40°C (-40°F).
	<u>EXECUTION</u>	
	10.31 Installation	<p>10.31.1 The Contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate system.</p> <p>10.31.2 All equipment shall be tested and configured in accordance with instructions provided by the manufacturer prior to installation.</p> <p>10.31.3 All firmware found in products shall be the latest and most up-to-date provided by the manufacturer, or of a version as specified by the provider of the Video Management Application (VMA) or Network Video Recorder (NVR).</p> <p>10.31.4 All equipment requiring users to log on using a password shall be configured with user/site-specific password/passwords. No system/product default passwords shall be allowed.</p> <p>10.31.5 A proper installation shall meet NEC (National Electrical Code – US only) per the guidelines of that year's revision. When properly installed equipment meets Low Voltage, Class 2 classification of the NEC</p>
12. THERMAL NETWORK CAMERA	11.1 General Requirements	<p>11.1.1 The camera shall be of manufacturer's official product line, designed for commercial/industrial 24/7/365 use.</p> <p>11.1.2 The camera shall be based upon standard components and proven technology using open and published protocols.</p>
	11.2 Quality Assurance	11.2.1 All camera installation, configuration, setup, program and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of

		<p>the equipment provided</p> <p>11.2.2 The contractor or designated subcontractor shall submit credentials of completed manufacturer certification, verified by a third party organization, as proof of the knowledge.</p> <p>11.2.3 All equipment provided shall be backed by a minimum of three years manufacturer warranty.</p> <p>11.2.4 The specified unit shall be manufactured in accordance with ISO 9001.</p>
	11.3 Environmental sustainability	<p>11.3.1 The specified unit shall be manufactured in accordance with ISO 14001.</p> <p>11.3.2 The specified unit shall be compliant with the EU directives 2011/65/EU (RoHS) and 2012/19/EU (WEEE).</p> <p>11.3.3 The specified unit shall be compliant with the EU regulation 1907/2006 (REACH).</p>
	11.4 Certifications and standards	<p><u>11.4.1 The camera shall carry the following EMC approvals:</u></p> <ol style="list-style-type: none"> 1. EN55022, EN55024 2. FCC Part 15 - Subpart B 3. VCCI 4. C-tick AS/NZS CISPR22 5. ICES-003 <p><u>11.4.2 The camera shall meet the following product safety standards</u></p> <ol style="list-style-type: none"> 1. IEC/EN/UL 60950-1 2. IEC/EN/UL 60950-22 <p><u>11.4.3 The camera shall meet the following standards:</u></p> <p><u>MPEG-4:</u></p> <ol style="list-style-type: none"> 1. ISO/IEC 14496-10 AVC (H.264) <p><u>11.4.4 Networking:</u></p> <ol style="list-style-type: none"> 2. IEEE 802.3af/802.3at (Power over Ethernet) 3. IEEE 802.1X (Authentication) 4. IPv4 (RFC 791)

		<ol style="list-style-type: none"> 5. IPv6 (RFC 2460) 6. QoS – DiffServ (RFC 2475) <p>11.4.5 <u>Network video</u></p> <ol style="list-style-type: none"> 1. ONVIF Profile S or ONVIF Version 1.01 or higher as defined by the ONVIF organization. <p>11.4.6 <u>Mechanical Environment:</u></p> <ol style="list-style-type: none"> 2. IEC/EN 60529 IP66 (Ingress protection) 3. NEMA 250 Type 4X <p>11.4.7 <u>Railway environment:</u></p> <ol style="list-style-type: none"> 1. EN 50121-4
	11.5 General	<p>11.5.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be designed to provide a native thermal video stream of 384x288 pixels resolution at 8,3 frames per second using H.264 or Motion JPEG and shall provide NetD sensitivity below 70 mK. 2. When sold/used on approved markets support frame rates of 30 frames per second in all resolutions. 3. Operate on an open source; Linux-based platform, and including a built-in web server. 4. Be equipped with a slot for microSD/microSDHC/microSDXC memory card expansion, supporting memory up to 64 GB - speed class C10. 5. Be manufactured with an all-metal body, supporting operations between -40°C to +60°C (-40°F to +140°F) and be IP66 and NEMA 250-rated.
	11.6 Hardware	<p>11.6.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Use an Uncooled Microbolometer with a FPA Format of 384x288 and 17µm pixel size. 2. Be equipped with a TA-mount and a replaceable thermal lens. 3. By using different lenses, provide horizontal field of views between 55° and 9°. 4. Provide a NetD sensitivity of less than 70mK at 25°C / 77°F 5. Support memory expansion by providing an

		available microSD/microSDHC/microSDXC card slot, supporting memory up to 64 GB - speed class C10.
	11.7 Video	<p>11.7.1 <u>Resolution</u></p> <ol style="list-style-type: none"> 1. The camera shall be able to deliver at least two individually configurable full resolution H.264 thermal video streams over IP networks. 2. Supported resolutions shall include: 384x288 pixels (native resolution) 640x480 pixels (scaled) 768x576 pixels (scaled)
	11.8 Encoding	<p>11.8.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Support Motion JPEG encoding with at least 8,3 frames per second in all resolutions. 2. On approved markets support Motion JPEG encoding with at least 30 frames per second in all resolutions. 3. Support H.264 encoding with at least 8,3 frames per second in all resolutions. 4. On approved markets support H.264 encoding with at least 30 frames per second in all resolutions. 5. Be able to provide independently configured simultaneous H.264 and Motion JPEG streams. 6. Support both Constant Bit Rate (CBR) and Variable Bit Rate (VBR) in H.264. 7. Provide configurable compression levels. 8. Support standard baseline profile H.264 with motion estimation. 9. Support motion estimation in H.264/MPEG-4 Part 10/AVC.
	11.9 Transmission	<p>11.9.1 <u>The camera shall allow for video to be transported over:</u></p> <ol style="list-style-type: none"> 1. HTTP (Unicast) 2. HTTPS (Unicast) 3. RTP (Unicast & Multicast) 4. RTP over RTSP (Unicast)

		<p>5. RTP over RTSP over HTTP (Unicast)</p> <p>6. The camera shall support Quality of Service (QoS) to be able to prioritize traffic.</p>
	11.10 Image control	11.10.1 The camera shall provide at least 4 different palettes used to improve the detection of information in the video.
	11.11 Audio	<p>11.11.1 The camera shall support two-way full duplex audio:</p> <p>11.11.2 <i>Input sources</i></p>
	11.12 External microphone	2 x external microphones to fitted and mounted at the front and rear and on the roof of the vehicle.
	11.13 External line device	<p>11.13.1 <i>Output sources</i></p> <p>External line device</p>
	11.14 Encoding	<p>11.14.1 <u>The camera shall support:</u></p> <p>1. AAC LC at 8/16 kHz</p> <p>2. G.711 PCM at 8 kHz</p> <p>3. G.726 ADPCM at 8 kHz</p>
	Functionality	
	11.15 Web server	<p>11.15.1 The camera shall contain a built-in web server making video and configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.</p> <p>11.5.2 Optional components downloaded from the camera for specific tasks, e.g. Active X, shall be signed by an organization providing digital trust services, such as VeriSign, Inc.</p>
	11.16 IP addresses	<p>11.16.1 The camera shall support both fixed IP addresses and dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.</p> <p>11.16.2 The camera shall allow for automatic detection of the Camera based on UPnP and Bonjour when using a PC with an operating system supporting this feature.</p>

		11.16.3 The camera shall provide support for both IPv4 and IPv6.
	11.17 Event functionality	<p><u>11.17.1 The camera shall be equipped with an integrated event functionality, which can be triggered by:</u></p> <ol style="list-style-type: none"> 1. Video Motion Detection 2. Audio Detection 3. Camera temperature outside the operative range 4. Live Stream Accessed 5. Schedule 6. Manual Trigger/Virtual Inputs 7. External input 8. Embedded third party applications 9. Edge storage disruption detection
	11.18 Response to triggers shall include:	<p>11.18.1 Send notification, using HTTP, HTTPS, TCP or email</p> <p>11.18.2 Send images, using FTP, HTTP, HTTPS, network share or email</p> <p>11.18.3 Send video clip, using FTP, HTTP, HTTPS, network share or email</p> <p>11.18.4 Recording to local storage and/or network attached storage</p> <p>11.18.5 Activating external output</p> <p>11.18.6 Play audio clip</p> <p>11.18.7 The camera shall provide memory for pre & post alarm recordings.</p> <p>11.18.8 Event functions shall be configurable via the web interface.</p>
	11.19 Edge storage	<p><u>11.19.1 The camera shall support continuous and event controlled recording to:</u></p> <ol style="list-style-type: none"> 1. Local memory added to the cameras SD-card slot 2. Network attached storage, located on the local network 3. <i>The camera shall be able to detect and notify Edge</i>

		<p><i>storage disruptions.</i></p> <p>4. The camera shall provide a function for altering the language of the user interface, and shall include support for at least 10 different languages.</p>
	11.19 Protocol support	<p>11.20.1 The camera shall incorporate support for at least IP, HTTP, HTTPS, SSL/TLS, TCP, ICMP, SNMPv1/v2c/v3 (MIB-II), RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, ARP, DNS, DynDNS, SOCKS, NTP, CIFS/SMB and Bonjour.</p> <p>11.20.2 <i>The SMTP implementation shall include support for SMTP authentication</i></p>
	11.21 Text overlay	<p>11.21.1 <u>The Camera shall:</u></p> <ol style="list-style-type: none"> 1. Provide embedded on-screen text with support for date & time, and a customer-specific text, camera name, of at least 45 ASCII characters. 2. To ensure accuracy, the camera shall accept external time synchronization from an NTP (Network Time Protocol) server. 3. Provide the ability to apply privacy masks to the image. 4. Allow for the overlay of a graphical image, such as a logotype, into the image.
	11.22 Security	<p>11.22.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Support the use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams. 2. The camera shall provide centralized certificate management, with both pre-installed CA certificates and the ability to upload additional CA certificates. The certificates shall be signed by an organization providing digital trust services. 3. Support IEEE 802.1X authentication. 4. Provide support for restricting access to pre-defined IP addresses only, so-called IP address filtering. 5. Restrict access to the built-in web server by usernames and passwords at three different levels.
	11.23 API support	<p>11.23.1 The camera shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications.</p>

		11.23.2 The camera shall conform to ONVIF Profile S or ONVIF Version 1.01 or higher as defined by the ONVIF organization, and shall be upgradable at any time.
	11.24 Embedded applications	<p>11.24.1 The camera shall provide a platform allowing the upload of third party applications into the camera.</p> <p>11.24.2 The camera vendor shall provide a compatibility tool for the application vendor to verify the stability and performance impact of their uploaded application.</p>
	11.25 Installation and Maintenance	<p>11.25.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be supplied with Windows-based management software which allows the assignment of IP addresses, upgrade of firmware and backup of the Cameras' configuration. 2. Support the use of SNMP-based management tools according to SNMP v1, 2c & 3 / MIB-II. 3. Allow updates of the software (firmware) over the network, using FTP or HTTP. 4. Provide the ability to apply a rectangle of customer-defined number of pixels to the image, which can be used as a pixel counter identifying the size of objects in number of pixels. 5. All customer-specific settings shall be stored in a non-volatile memory and shall not be lost during power cuts or soft reset.
	11.26 Access logs	<p>11.26.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Provide a log file, containing information about the 250 latest connections and access attempts since the unit's latest restart. The file shall include information about the connecting IP addresses and the time of connecting. 2. Provide a connection list of all currently connected viewers. The file shall include information about connecting IP address, time of connecting and the type of stream accessed.
	11.27 Camera diagnostics	<p>11.27.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the camera's operational status and provide information about power, communication with receiver, the network status and the camera status. 2. Be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart

		<p>the unit if a malfunction is detected.</p> <p>3. The camera shall send a notification when the unit has re-booted and all services are initialized.</p>
	Interfaces	
	11.28 Network interface	<p>11.28.1 The camera shall be equipped with one 100BASE-TX Fast Ethernet-port, using a standard male RJ45 connector and shall support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex).</p>
	11.29 Multifunctional connector	<p>11.29.1 The unit shall, by using a “multi wire cable”, provide connectivity for:</p> <p>11.29.2 Two digital I/O(alarm) ports. These ports shall be configurable as input or output, and when configured as input responds to normally open (NO) or normally closed (NC) dry contacts.</p> <p>11.29.3 One line/mic input and one line out.</p>
	11.30 Enclosure	<p>11.30.1 <u>The camera enclosure shall include the following:</u></p> <ol style="list-style-type: none"> 1. Be manufactured with an impact resistant casing with clear transparent cover and an aluminum body providing encapsulated electronics. 2. Germanium window for the lens 3. IP66 and NEMA 250-ratings
	11.31 Power requirements	<p>11.31.1 Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3</p> <p>11.31.2 8-28 V DC, max 11 W</p> <p>11.31.3 20-24 V AC, max 15 VA</p>
	11.32 Environmental	<p>11.32.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Operate in a temperature range of -40 °C to +60 °C (-40 °F to +140 °F). 2. Operate in a humidity range of 10–85% RH (condensing).

	11.33 EXECUTION	11.33.1 <u>Installation</u> <ol style="list-style-type: none"> 1. The Contractors or subcontractors main resources within the project shall carry proper professional certification issued by the manufacturer and verified by a third party organization to confirm sufficient product and technology knowledge. 2. The Contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate system. 3. All equipment shall be tested and configured in accordance with instructions provided by the manufacturer prior to installation. 4. All firmware found in products shall be the latest and most up-to-date provided by the manufacturer, or of a version as specified by the provider of the Video Management Application (VMA) or Network Video Recorder (NVR). 5. All equipment requiring users to log on using a password shall be configured with user/site-specific password/passwords. No system/product default passwords shall be allowed. 6. A proper installation shall meet NEC (National Electrical Code – US only) per the guidelines of that year's revision. When properly installed equipment meets Low Voltage, Class 2 classification of the NEC.
12. 5MP FIXED OVERVIEW CAMERA + PTZ HEAD	12.1 GENERAL	12.1.1 <u>General Requirements</u> <ol style="list-style-type: none"> 1. The camera shall be of manufacturer's official product line, designed for commercial/industrial 24/7/365 use. 2. The camera shall be based upon standard components and proven technology using open and published protocols.
	12.2 Quality Assurance	<ol style="list-style-type: none"> 3. All camera installation, configuration, setup, program and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of the equipment provided. 4. All equipment provided shall be backed by a minimum of three years manufacturer warranty. 5. The specified unit shall be manufactured in accordance with ISO 9001.
	12.3 Environmental sustainability	<ol style="list-style-type: none"> 6. The specified unit shall be manufactured in accordance with ISO 14001. 7. The specified unit shall be compliant with the EU

		<p>directives 2011/65/EU (RoHS) and 2012/19/EU (WEEE).</p> <p>8. The specified unit shall be compliant with the EU regulation 1907/2006 (REACH).</p>
	<p>12.4 Certification and standards</p>	<p>12.4.1 <u>The camera shall carry the following EMC approvals:</u></p> <ol style="list-style-type: none"> 1. EN55022, EN55024 2. FCC Part 15 - Subpart B 3. VCCI 4. C-tick AS/NZS CISPR22 5. ICES-003 6. The camera shall meet the following product safety standards 7. UL / EN 60950 -1 <p>12.4.2 <u>The camera shall meet relevant parts of the following video standards:</u></p> <ol style="list-style-type: none"> 1. SMPTE 296M (HDTV 720p) 2. SMPTE 274M (HDTV 1080p) <p>12.4.3 <u>The camera shall meet the following standards</u></p> <p><u>MPEG-4:</u></p> <ol style="list-style-type: none"> 1. ISO/IEC 14496-10 AVC (H.264) <p>12.4.4 <u>Networking:</u></p> <ol style="list-style-type: none"> 2. IEEE 802.3af (Power over Ethernet) 3. IEEE 802.1X (Authentication) 4. IPv4 (RFC 791) 5. IPv6 (RFC 2460) 6. QoS – DiffServ (RFC 2475) <p>12.4.5 <u>Network video</u></p> <ol style="list-style-type: none"> 1. ONVIF Profile S or ONVIF Version 1.01 or higher as defined by the ONVIF organization.
	<p>12.5 General</p>	<p>12.5.1 <u>The camera shall:</u></p>

		<ol style="list-style-type: none"> 1. Be designed to provide streams up to 2592x1944 pixels resolution at up to 12 frames per second using H.264 or Motion JPEG, and provide video streams in HDTV 1080p (1920x1080) at up to 30 frames per second using H.264 or Motion JPEG. 2. Be equipped with Day/Night functionality. 3. Be equipped with remote back focus capabilities. 4. Operate on an open source; Linux-based platform, and including a built-in web server. 5. Be equipped with a slot for microSD/microSDHC/microSDXC memory card expansion, supporting memory up to 64 GB. 6. Be manufactured with an all-metal casing.
	12.6 Hardware	<p>12.6.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Use a high quality IR-sensitive progressive scan sensor. 2. Be equipped with a removable IR-cut filter, providing so-called day/night functionality. 3. Be equipped with a varifocal lens, provide automated iris functionality with P-Iris control. 4. Be equipped with remote back focus functionality. 5. Provide pictures down to 0.2 lux in color and down to 0.04 lux in B/W. 6. Support local memory by providing a microSD/microSDHC/microSDXC card slot, supporting memory up to 64 GB.
	12.7 Video	<p>12.7.1 <u>Resolution</u></p> <ol style="list-style-type: none"> 1. The camera shall be able to deliver full resolution video (2592x1944 pixels) at 12 frames per second. 2. The camera shall be able to deliver full frame rate HDTV 1080p video over IP networks. 3. Supported video resolutions shall include: <p>800x600 (4:3)</p> <p>1024x768 (4:3)</p> <p>2592x1944 (4:3)</p> <p>1280x720 (HDTV 720p) (16:9)</p>

		<p>1920x1080 (HDTV 1080p) 16:9)</p> <p>1280x1024 (5:4)</p> <p>1280x800 (16:10)</p> <p>4. The camera shall be able to provide both landscape format (4:3 and 16:9 aspect ratio) as well as corridor format (3:4 and 9:16 aspect ratio).</p>
	12.8 Encoding	<p><u>12.8.1 The camera shall:</u></p> <ol style="list-style-type: none"> 1. Support Motion JPEG encoding in a selectable range from 1 up to 12 frames per second in all resolutions up to 2592x1944 pixels. 2. Support Motion JPEG encoding in up to 30 frames per second in HDTV 1080p (1920x1080 resolution). 3. Support Baseline Profile H.264 encoding with motion estimation in a selectable range from 1 up to 12 frames per second in all resolutions up to 2592x1944 pixels. 4. Support Baseline Profile H.264 encoding with motion estimation in up to 30 frames per second in HDTV 1080p (1920x1080 resolution). 5. Support Main Profile H.264 encoding with motion estimation and context-adaptive binary arithmetic coding (CABAC) in a selectable range from 1 up to 12 frames per second in all resolutions up to 2592x1944 pixels. 6. Support Main Profile H.264 encoding with motion estimation and context-adaptive binary arithmetic coding (CABAC) in up to 30 frames per second in HDTV 1080p (1920x1080 resolution). 7. Be able to provide independently configured simultaneous H.264 and Motion JPEG streams. 8. Support both Constant Bit Rate (CBR) and Variable Bit Rate (VBR) in H.264. 9. Provide configurable compression levels.
	12.9 Transmission	<p><u>12.9.1 The camera shall allow for video to be transported over:</u></p> <ol style="list-style-type: none"> 1. HTTP (Unicast) 2. HTTPS (Unicast) 3. RTP (Unicast & Multicast) 4. RTP over RTSP (Unicast)

		<ol style="list-style-type: none"> 5. RTP over RTSP over HTTP (Unicast) 6. The camera shall support Quality of Service (QoS) to be able to prioritize traffic. <p>12.9.2 <u>Image control</u></p> <ol style="list-style-type: none"> 1. The camera shall incorporate Automatic and Manual White Balance 2. The camera shall be equipped with an electronic shutter. 3. The camera shall incorporate automatic and manually defined exposure zones. 4. The camera shall be equipped with Wide Dynamic Range functionality - dynamic contrast. 5. The camera shall support a configurable maximum shutter in the range from 2 seconds to 1/24000 second in 50Hz mode 6. The camera shall support a configurable maximum shutter in the range from 2 to 1/24000 second in 60Hz mode. <p>12.9.3 <u>The camera shall incorporate capture mode with the following settings:</u></p> <p>2 MP 1600x1200 (4:3)</p> <p>HDTV 1080p 1920x1080 (16:9)</p> <p>3 MP 2048x1536 (4:3)</p> <p>5 MP 2592x1944 (4:3)</p> <ol style="list-style-type: none"> 1. The camera shall provide backlight compensation. 2. The camera shall allow for rotation of the image in steps of 90°. <p>12.9.4 <u>The camera shall support manually defined values for:</u></p> <ol style="list-style-type: none"> 1. Colour level 2. Brightness 3. Sharpness 4. Contrast 5. The camera shall incorporate a function for optimization of low light behavior.
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	12.10 Audio	<p>12.10.1 <u>The camera shall support two-way full duplex audio:</u></p> <p>12.10.1.1 <u>Input sources</u></p> <ol style="list-style-type: none"> 1. Built-in microphone 2. External microphone 3. External line device <p>12.10.1.2 <u>Output sources</u></p> <p>External line device</p>
	12.11 Encoding	<p>12.11.1 <u>The camera shall support:</u></p> <ol style="list-style-type: none"> 1. AAC LC at 8/16 kHz 2. G.711 PCM at 8 kHz 3. G.726 ADPCM at 8 kHz
	Functionality	
	12.12 Web server	<p>12.12.1 The camera shall contain a built-in web server making video and configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.</p> <p>12.12.2 Optional components downloaded from the camera for specific tasks, e.g. Active X, shall be signed by an organization providing digital trust services, such as VeriSign, Inc.</p>
	12.13 IP addresses	<p>12.13.1 The camera shall support both fixed IP addresses and dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.</p> <p>12.13.2 The camera shall allow for automatic detection of the Camera based on UPnP and Bonjour when using a PC with an operating system supporting this feature.</p> <p>12.13.3 The camera shall provide support for both IPv4 and IPv6.</p>
	12.14.1 PTZ functionality	<p>12.14.1 The camera shall provide the ability to control PT devices from third party manufacturer.</p> <p>12.14.2 The camera shall provide at least 100 preset positions.</p> <p>12.14.3 The camera shall incorporate guard tour</p>

		functionality.
	12.15 Event functionality	<p>12.15.1 The camera shall be equipped with an integrated event functionality, which can be triggered by:</p> <ol style="list-style-type: none"> 1. External input 2. Video Motion Detection 3. Audio Detection 4. Schedule 5. Camera tampering 6. Embedded third party applications 7. Edge storage disruption detection <p>12.15.2 Response to triggers shall include:</p> <ol style="list-style-type: none"> 1. Notification, using TCP, SMTP or HTTP 2. Image upload, using FTP, SMTP or HTTP 3. Activating external output 4. Recording to local storage and/or network attached storage 5. The camera shall provide memory for pre & post alarm recordings. 6. Event functions shall be configurable via the web interface.
	12.16 Edge storage	<p>12.16.1 The camera shall support continuous and event controlled recording to:</p> <ol style="list-style-type: none"> 1. Local memory added to the cameras microSD-card slot 2. Network attached storage, located on the local network 3. The camera shall be able to detect and notify Edge storage disruptions
	12.17 Protocol support	<p>12.17.1 The camera shall incorporate support for at least IP, HTTP, HTTPS, SSL/TLS, TCP, ICMP, SNMPv1/v2c/v3 (MIB-II), RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, ARP, DNS, DynDNS, SOCKS, NTP, CIFS/SMB and Bonjour.</p> <p>12.17.2 The SMTP implementation shall include support for SMTP authentication.</p>

	12.18 Text overlay	<p><u>12.18.1 The Camera shall:</u></p> <ol style="list-style-type: none"> 1. Provide embedded on-screen text with support for date & time, and a customer-specific text, camera name, of at least 45 ASCII characters. 2. To ensure accuracy, the camera shall accept external time synchronization from an NTP (Network Time Protocol) server. 3. Provide the ability to apply a privacy mask to the image. 4. Allow for the overlay of a graphical image, such as a logotype, into the image. <p><u>12.18.2 Security</u></p> <p><u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Support the use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams. 2. Support IEEE 802.1X authentication. 3. Provide support for restricting access to pre-defined IP addresses only, so-called IP address filtering. 4. Restrict access to the built-in web server by usernames and passwords at three different levels.
	12.19 API support	<p>12.19.1 The camera shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications.</p> <p>12.19.2 The camera shall conform to ONVIF Profile S or ONVIF Version 1.01 or higher as defined by the ONVIF organization, and shall be upgradable at any time.</p>
	12.20 Embedded applications	<p>12.20.1 The camera shall provide a platform allowing the upload of third party applications into the camera.</p> <p>12.20.2 The camera vendor shall provide a compatibility tool for the application vendor to verify the stability and performance impact of their uploaded application.</p>
	12.21 Installation and maintenance	<p><u>12.21.1 The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be supplied with Windows-based management software which allows the assignment of IP addresses, upgrade of firmware and backup of the

		<p>Cameras' configuration.</p> <ol style="list-style-type: none"> Support the use of SNMP-based management tools according to SNMP v1, 2c & 3 / MIB-II. Allow updates of the software (firmware) over the network, using FTP or HTTP. Provide the ability to perform back focus adjustment remotely from the products web interface. Provide the ability to apply a rectangle of customer-defined number of pixels to the image, which can be used as a pixel counter identifying the size of objects in number of pixels. All customer-specific settings shall be stored in a non-volatile memory and shall not be lost during power cuts or soft reset.
	12.22 User logs	<p>12.22.1 The camera shall:</p> <ol style="list-style-type: none"> Provide a log file, containing information about the 250 latest connections and access attempts since the unit's latest restart. The file shall include information about the connecting IP addresses and the time of connecting. Provide a connection list of all currently connected viewers. The file shall include information about connecting IP address, time of connecting and the type of stream accessed.
	12.22 Camera diagnostics	<p>12.22.1 The camera shall:</p> <ol style="list-style-type: none"> Be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the camera's operational status and provide information about power, communication with receiver, the network status and the camera status. Be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart the unit if a malfunction is detected.
	Interfaces	
	12.23 Network interface	<p>12.23.1 The camera shall be equipped with one 100BASE-TX Fast Ethernet-port, using a standard RJ-45 socket and shall support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex).</p>
	12.24 Inputs/Outputs	<p>12.24.1 The camera shall be equipped with one digital (alarm) input and one digital output, accessible via a removable terminal block. This input shall be configurable to respond to normally open (NO) or normally closed (NC) dry contacts.</p>

	12.25 Serial interface	12.25.1 The camera shall be equipped with one RS-485/422 serial port.
	12.26 Audio	12.26.1 The camera shall be equipped with one 3.5 mm jack for line/mic input and one 3.5 mm jack for line output.
	12.27 Enclosure	12.27.1 The camera shall be manufactured with an all-metal casing.
	12.28 Power requirements	12.28.1 Power over Ethernet according to IEEE 802.3af - Class 3. 12.28.2 8 - 28 V DC, max 7.9 W
	12.29 Environmental	12.29.1 <u>The camera shall:</u> 1. Operate in a temperature range of 0°C to +50°C (+32°F to +122°F). 2. Operate in a humidity range of 10–85% RH (non-condensing).
	EXECUTION	
	12.29 Installation	12.29.1 The Contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate system. 12.29.2 All equipment shall be tested and configured in accordance with instructions provided by the manufacturer prior to installation. 12.29.3 All firmware found in products shall be the latest and most up-to-date provided by the manufacturer, or of a version as specified by the provider of the Video Management Application (VMA) or Network Video Recorder (NVR). 12.29.4 All equipment requiring users to log on using a password shall be configured with user/site-specific password/passwords. No system/product default passwords shall be allowed. 12.29.5 A proper installation shall meet NEC (National Electrical Code – US only) per the guidelines of that year's revision. When properly installed equipment meets Low Voltage, Class 2 classification of the NEC
13. Wireless PTZ Dome Network Camera (with pressurised, stainless steel high-speed PTZ)	13.1 General requirements	13.1.1 The camera shall be of manufacture's official product line, designed for commercial/industrial 24/7/365 use. 13.1.2 The camera shall be based upon standard components and proven technology using open and published protocol

dome		
	13.2 Quality Assurance	<p>13.2.1 All camera installation, configuration, setup, program and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of the equipment provided.</p> <p>13.2.2 All equipment provided shall be backed by a minimum of three years manufacturer warranty.</p> <p>13.2.3 The specified unit shall be manufactured in accordance with ISO 9001</p>
	13.3 Environment sustainability	
	13.4 Certifications and standards	<p>13.4.1 <u>The camera shall carry the following EMC approvals:</u></p> <p>1.EN55022, EN55024</p> <p>2. FCC Part 15 – Subpart B</p> <p>3.VCCI</p> <p>4.C-tick AS/NZS CISPR22</p> <p>5.ICES-003</p> <p>6.The camera shall meet the following product safety standards:</p> <p>UL/EN 60950-1</p> <p>13.4.2 <u>The camera shall meet the relevant parts of the following video standards:</u></p> <p>1. HDTV 720p</p> <p>2. HDTV 1080p</p> <p>13.4.3 <u>The camera shall meet the following standards:</u></p> <p><u>MPEG-4</u></p> <p>1.ISO/IEC 14496-10 AVC (H.264)</p> <p>13.4.4 <u>Networking</u></p>

	13.5 General	<p>13.5.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Be designed to provide streams up to 2592x1944 pixels resolution at up to 12 frames per second using H.264 or Motion JPEG, and provide video streams in HDTV 1080p (1920x1080) at up to 30 frames per second using H.264 or Motion JPEG. <p>Be equipped with Day/Night functionality.</p> <ol style="list-style-type: none"> 3. Be equipped with remote back focus capabilities. 4. Operate on an open source; Linux-based platform, and including a built-in web server. 5. Be equipped with a slot for microSD/microSDHC/microSDXC memory card expansion, supporting memory up to 64 GB. 6. Be manufactured with an all-metal casing
	13.6 Hardware	<p>13.6.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Use a high quality IR-sensitive progressive scan sensor. 2. Be equipped with a removable IR-cut filter, providing so-called day/night functionality. 3. Be equipped with a varifocal lens, provide automated iris functionality with P-Iris control. 4. Be equipped with remote back focus functionality. 5. Provide pictures down to 0.2 lux in color and down to 0.04 lux in B/W. 6. Support local memory by providing a microSD/microSDHC/microSDXC card slot, supporting memory up to 64 GB.
	13.7 Video	<p>13.7.1 <u>Resolution</u></p> <ol style="list-style-type: none"> 1. The camera shall be able to deliver full resolution video (2592x1944 pixels) at 12 frames per second. 2. The camera shall be able to deliver full frame rate HDTV 1080p video over IP networks. 3. Supported video resolutions shall include: <p>800x600 (4:3)</p> <p>1024x768 (4:3)</p> <p>2592x1944 (4:3)</p>

		<p>1280x720 (HDTV 720p) (16:9)</p> <p>1920x1080 (HDTV 1080p) 16:9)</p> <p>1280x1024 (5:4)</p> <p>1280x800 (16:10)</p> <p>4. The camera shall be able to provide both landscape format (4:3 and 16:9 aspect ratio) as well as corridor format (3:4 and 9:16 aspect ratio).</p>
	13.8 Encoding	<p>13.8.1 <u>The camera shall:</u></p> <ol style="list-style-type: none"> 1. Support Motion JPEG encoding in a selectable range from 1 up to 12 frames per second in all resolutions up to 2592x1944 pixels. 2. Support Motion JPEG encoding in up to 30 frames per second in HDTV 1080p (1920x1080 resolution). 3. Support Baseline Profile H.264 encoding with motion estimation in a selectable range from 1 up to 12 frames per second in all resolutions up to 2592x1944 pixels. 4. Support Baseline Profile H.264 encoding with motion estimation in up to 30 frames per second in HDTV 1080p (1920x1080 resolution). 5. Support Main Profile H.264 encoding with motion estimation and context-adaptive binary arithmetic coding (CABAC) in a selectable range from 1 up to 12 frames per second in all resolutions up to 2592x1944 pixels. 6. Support Main Profile H.264 encoding with motion estimation and context-adaptive binary arithmetic coding (CABAC) in up to 30 frames per second in HDTV 1080p (1920x1080 resolution). 7. Be able to provide independently configured simultaneous H.264 and Motion JPEG streams. 8. Support both Constant Bit Rate (CBR) and Variable Bit Rate (VBR) in H.264. 9. Provide configurable compression levels.
	13.9 Transmission	<p><u>13.9.1 The camera shall allow for video to be transported over:</u></p> <ol style="list-style-type: none"> 1. HTTP (Unicast) 2. HTTPS (Unicast) 3. RTP (Unicast & Multicast)

4. RTP over RTSP (Unicast)
5. RTP over RTSP over HTTP (Unicast)
6. The camera shall support Quality of Service (QoS) to be able to prioritize traffic.

13.9.2 Image control

1. The camera shall incorporate Automatic and Manual White Balance
2. The camera shall be equipped with an electronic shutter.
3. The camera shall incorporate automatic and manually defined exposure zones.
4. The camera shall be equipped with Wide Dynamic Range functionality - dynamic contrast.
5. The camera shall support a configurable maximum shutter in the range from 2 seconds to 1/24000 second in 50Hz mode
6. The camera shall support a configurable maximum shutter in the range from 2 to 1/24000 second in 60Hz mode.

13.9.3 The camera shall incorporate capture mode with the following settings:

2 MP 1600x1200 (4:3)

HDTV 1080p 1920x1080 (16:9)

3 MP 2048x1536 (4:3)

5MP 2592x1944 (4:3)

1. The camera shall provide backlight compensation.
2. The camera shall allow for rotation of the image in steps of 90°.

13.9.4 The camera shall support manually defined values for:

1. Colour level
2. Brightness
3. Sharpness
4. Contrast
5. The camera shall incorporate a function for

	Functionality	
	13.10 Web server	13.10.1 The camera shall contain a built-in web server making video and configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.
	13.11 IP addresses	<p>13.11.1 The camera shall support both fixed IP addresses and dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.</p> <p>13.15.2 The camera shall allow for automatic detection of the Camera based on UPnP and Bonjour when using a PC with an operating system supporting this feature.</p> <p>13.15.3 The camera shall provide support for both IPv4 and IPv6.</p>
	13.12Event functionality	<p><u>13.12.1 The camera shall be equipped with an integrated event functionality, which can be triggered by:</u></p> <ol style="list-style-type: none"> 1. Video motion detection 2. Audio detection 3. Camera temperature outside the operative range 4. Live stream accessed 5. Schedule 6. Manual trigger/Virtual Inputs 7. External input 8. Embedded third party applications 9. Edge storage disruption detection <p><u>13.12.2 Response to triggers shall include:</u></p> <ol style="list-style-type: none"> 1. Notification, using TCP, SMTP or HTTP 2. Image upload, using FTP, SMTP or HTTP 3. Activating external output 4. Recording to local storage and/or network attached storage 5. The camera shall provide memory for pre & post alarm recordings.

		6. Event functions shall be configurable via the web interface.
	13.13 Edge storage	<p><u>The camera shall support continuous and event controlled recording to:</u></p> <ol style="list-style-type: none"> 1. Local memory added to the cameras microSD-card slot 2. Network attached storage, located on the local network 3. The camera shall be able to detect and notify Edge storage disruptions
	13.11 Protocol support	<p>13.11.1 The camera shall incorporate support for at least IP, HTTP, HTTPS, SSL/TLS, TCP, ICMP, SNMPv1/v2c/v3 (MIB-II), RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, UPnP, ARP, DNS, DynDNS, SOCKS, NTP, CIFS/SMB and Bonjour.</p> <p>13.11.2 The SMTP implementation shall include support for SMTP authentication.</p>
	13.12 Text overlay	
	13.13 Embedded applications	<p>13.13.1 The camera shall provide a platform allowing the upload of third party applications into the camera.</p> <p>13.13.2 The camera vendor shall provide a compatibility tool for the application vendor to verify the stability and performance impact of their uploaded</p>
	13.14 Installation and maintenance	<ol style="list-style-type: none"> 1. Be supplied with Windows-based management software which allows the assignment of IP addresses, upgrade of firmware and backup of the Cameras' configuration. 2. Allow updates of the software (firmware) over the network, using FTP or HTTP. 3. Provide the ability to perform back focus adjustment remotely from the products web interface. 4. Provide the ability to apply a rectangle of customer-defined number of pixels to the image, which can be used as a pixel counter identifying the size of objects in number of pixels. 5. All customer-specific settings shall be stored in a non-volatile memory and shall not be lost during power cuts or soft reset

	13.15 User logs	<ol style="list-style-type: none"> 1. Provide a log file, containing information about the 250 latest connections and access attempts since the unit's latest restart. The file shall include information about the connecting IP addresses and the time of connecting. 2. Provide a connection list of all currently connected viewers. The file shall include information about connecting IP address, time of connecting and the type of stream accessed.
	13.16 Camera diagnostics	<ol style="list-style-type: none"> 1. Be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the camera's operational status and provide information about power, communication with receiver, the network status and the camera status. 2. Be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart the unit if a malfunction is detected. 3. The camera shall send a notification when the unit has re-booted and all services are initialized.
	Interfaces	
	13.17 Network Interfaces	12.20.1 The camera shall be equipped with one 100BASE-TX Fast Ethernet-port, using a standard RJ-45 socket and shall support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex
	13.18 Inputs/ Outputs	12.20.2 The camera shall be equipped with one digital (alarm) input and one digital output, accessible via a removable terminal block. This input shall be configurable to respond to normally open (NO) or normally closed (NC) dry contacts
	13.26 Serial Interface	
	13.27 Enclosure	The camera shall be manufactured with an all metal casing
	13.28 Power requirements	<p>Power over Ethernet according to IEEE 802.3af - Class 3.</p> <p>8 - 28 V DC, max 7.9 W</p>
	13.29 Environment	<p>13.29.1 The camera shall:</p> <ol style="list-style-type: none"> 1. Operate in temperature range -30°C to 50°C (-22°F to 122°F) 2. Operate in humidity 10-100% RH (condensing)

	EXECUTION	
	13.30 Installation	<ol style="list-style-type: none"> 1. The Contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate system. 2. All equipment shall be tested and configured in accordance with instructions provided by the manufacturer prior to installation. 3. All firmware found in products shall be the latest and most up-to-date provided by the manufacturer, or of a version as specified by the provider of the Video Management Application (VMA) or Network Video Recorder (NVR). 4. All equipment requiring users to log on using a password shall be configured with user/site-specific password/passwords. No system/product default passwords shall be allowed. 5. A proper installation shall meet NEC (National Electrical Code – US only) per the guidelines of that year's revision. When properly installed equipment meets Low Voltage, Class 2 classification of the NEC
14. LOUD SPEAKER		<ol style="list-style-type: none"> 1. Rated input – 30W 2. Rated impedance – 8 3. Sound pressure level - 113Db (1 W, 1 m at 500 to 2,500 Hz peak level) 4. Frequency response – 250 – 10, 000Hz 5. Sensitivity when used as microphone - -20Db at 1kHz 6. IP Code - IP 65 7. Polarity – Hot: Black, Com: White 8. Operating temperature - -20⁰c to +55⁰c (Must be free from dew condensation) 8. Dimensions – 285 (w) x 227 (H) x 277 (D) mm 9. Weight – 1.7Kg 10. Swivel bracket: Optional
15.INTERCOM SYSTEM		<ol style="list-style-type: none"> 15.1 Specification open to the tenderer but must suite the mobile environment. 15.2 It must be provided between the boardroom and Communication Centre.
16. GENERATOR	<p>16.1 The diesel generator to be installed on the vehicle and sized to efficiently power the mobile command centre vehicle for 6-8 hours of run-time and as quietly as possible.</p> <p>16.2 The exhaust system must be designed in such a manner that it shall</p>	<p>16.1.1 Gross engine output –</p> <ol style="list-style-type: none"> 1. Standby kWm (BHP) 11.8 (15.8) 2. Prime - kWm (BHP) 10.6 (14.2) 3. Base - kWm (BHP) 8.3 (11.1) 4. Typical Generator Set Output – Standby (ESP) kWe 8.8 - kVa 11 5. Prime (PRP) kWe 8 – kVa 10 6. Base (COP) kWe 5.6 – kVa 7 <p>16.1.2 General Engine Data</p> <ol style="list-style-type: none"> 1. Type – inline, 4 cylinder, diesel 2. Bore – 95mm: Enhance strength & reduce noise

	<p>discharge the gases away from the command vehicle.</p>	<div><div><div>3. Stroke – 91mm</div><div>4. Displacement – 1.29 Litre</div><div>5. Cylinder Block – Alloy cast, in- line, 2 cylinder</div><div>6. Starting voltage – 12 volts with starter, fuel solenoid & electronic governor fitted.</div><div>7. Fuel system – Direct injection</div><div>8. Fuel filter – Spin – on fuels filter with water separator</div><div>9. Lube Oil Capacity – 4.5 Litre</div><div>10. Flywheel Dimensions – SAE 4/6.5"</div></div><div><div>16.1.3</div><div>Coolpac Performance Data</div><div><div>1. Cooling system design – Jacket Water Cooled</div><div>2. Coolant capacity – 3</div><div>3. Limiting Ambient temp - 50⁰c</div><div>4. Fan power (Kwm) – 0.4</div><div>5. Cooling system air flow (m3/s) – 12.45</div><div>6. Air cleaner type – Heavy duty (25g/CFM)</div></div></div><div><div>Fuel Consumption 1500 (50Hz)</div><table><tr><td>%</td><td>kWm</td><td>BHP</td><td>L/ph.</td><td>US gal/ph.</td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table></div><div><div>Standby Power</div><table><tr><td>100</td><td>11.8</td><td>15.8</td><td>3.4</td><td>0.9</td></tr></table></div><div><div>Prime Power</div><table><tr><td>100</td><td>10.6</td><td>14.2</td><td>3</td><td>0.8</td></tr><tr><td>75</td><td>7.94</td><td>10.65</td><td>2.4</td><td>0.</td></tr><tr><td>50</td><td>5.3</td><td>7.1</td><td>1.8</td><td>0.5</td></tr><tr><td>25</td><td>2.65</td><td>3.55</td><td>1.2</td><td>0.3</td></tr></table></div><div><div>Continuous Power</div><table><tr><td>100</td><td>8.3</td><td>11.1</td><td>2.5</td><td>0.7</td></tr></table></div></div>	%	kWm	BHP	L/ph.	US gal/ph.						100	11.8	15.8	3.4	0.9	100	10.6	14.2	3	0.8	75	7.94	10.65	2.4	0.	50	5.3	7.1	1.8	0.5	25	2.65	3.55	1.2	0.3	100	8.3	11.1	2.5	0.7
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100	8.3	11.1	2.5	0.7																																						
17.MOBILE SATELLITE SYSTEM		<div><div><div>17.1 Bandwidth and network</div><div><div>1. Download speed up to 5000Kbps</div><div>2. Upload speed up to 2000Kbps</div><div>3. Public IP address must be included</div><div>4. Must support DHCP</div><div>5. Must support wireless</div><div>6. Must include a 4 port Ethernet switch</div></div></div><div><div>17.2 Satellite dish</div><div><div>1. Reflector type must support 0.98 sq. meter effective area</div><div>2. Mount geometry must include 3 Axis motor drive(elevation, azimuth & skew)</div><div>3. Deployment sensors should include GPS and tilt sensor + - 0.1 degree</div><div>4. Maximum mount rotation at Azimuth 410 degrees, elevation 165 degrees and polarization +- 95 degrees</div></div></div><div><div>RF Interface</div><div><div>1. Transmit power of 6 watts BUC transmitter</div><div>2. Frequency 10.95-12.75Ghz Receive / 13.75-14.50Ghz send</div></div></div><div><div>Dish dimensions</div><div><div>1. Stowed dish dimensions .98 meter (LWH)= 150 X 74 X30.5 cm</div><div>2. Mounting Plate (LW) 56 X145 cm</div><div>3. Base Plate (LW) 35.6 X40.7 cm</div><div>4. Deployed max height required from mount 132CM</div><div>5. Weight 56.7kg</div></div></div></div>																																								

		<p>6. Boom Radius sweep 53 inches from centre with 5 inch min. ground clearance</p> <p>Environment</p> <ol style="list-style-type: none"> 1. Wind deployed 81 KPH 2. Wind stowed 225 KPH 3. Max operational temperature at 100% humidity (-28 degrees to 60degrees) 4. Max survival temperature at 100% humidity (-51 degrees to 71 degrees) 5. IP66 certification required <p>Power consumption</p> <ol style="list-style-type: none"> 1. Dish controller and dish motors(120VAC) 15 watts @ 120V <p>*The Bidder shall bear monthly subscription fees for a period of 3 years</p>
18. INTERIOR SINK		<ol style="list-style-type: none"> 1. Stainless steel sink and water system 2. Chrome plated faucet and individual control valves for hot and cold water 16 Countertop recessed into custom built cabinetry
19. WATER TANK		<ol style="list-style-type: none"> 19.1.1 The water tank to be fitted/connected to the vehicle and the water pump to be connected to the sink. 19.1.2 An electrical pump shall be connected to the generator. 19.1.3 An additional tank to accommodate drainage to the system.
20.ELECTRONIC SIREN	20.1 ONE FEDERAL SIGNAL	<ol style="list-style-type: none"> 20.1.1 Electronic siren with standard hard wired microphone and electronic air horns. 20.1.2 Installed as close to 24 volt control panel. 20.1.3 Siren to be de-activated when park brakes are set.
	<u>20.2 SIDE SCENE LIGHTS</u>	<ol style="list-style-type: none"> 20.2.1 Eight (8) scene lights, four (4) each side of upper body. 20.2.2 Two (2) switches shall be provided, one (1) for the left side and one (1) for the right side.
	<u>20.3 REAR SCENE LIGHTS</u>	<ol style="list-style-type: none"> 20.3.1 Two (2) scene lights on upper rear body. One (1) switch for rear scene lights.

21. WARNING LIGHT PACKAGE	21.1 UPPER WARNING LIGHT SYSTEM	<p>21.1.1 <u>Front Upper Warning Lights</u></p> <ol style="list-style-type: none"> 1. One (1) light bar, all red lenses, with (2) forward facing clear lamps, permanently mounted to roof. 2. Light bar shall be separately switched at the 24 volt rocker control panel. <p>21.1.2 <u>Side Upper Warning Lights</u></p> <ol style="list-style-type: none"> 4. Two (2) lights with red lens, one (1) each side of the apparatus in the upper rearward corners. 5. The strobe lights shall be controlled by a strobe power supply. 6. The lights shall be switched at 24 volt control panel in cab. <p>21.1.3 <u>Side Upper Warning Lights – Load managed</u></p> <ol style="list-style-type: none"> 1. Four (4) lights with red lens, one (1) each side of the Command Centre body in the upper forward corners. 2. The strobe lights shall be controlled by a strobe power supply. 3. The lights shall be switched at 24 volt control panel in cab. These lights shall be load managed. <p>21.1.4 <u>Rear Upper Warning Lights</u></p> <ol style="list-style-type: none"> 1. Four (4) lights with red lens shall be provided in upper rear body corners. 2. The strobe lights shall be controlled by a strobe power supply. 3. The lights shall be switched at 24 volt control panel in cab.
	21.2 LOWER WARNING LIGHT SYSTEM	<p>21.2.1 <u>Front Lower Warning Lights</u></p> <ol style="list-style-type: none"> 1. Four (4) Strobe lights shall be installed on the cab fascia above the head lamps, two (2) red lenses and two (2) clear lenses. <p>21.2.2 <u>Side Lower Warning Lights</u></p> <ol style="list-style-type: none"> 1. Four (4) lights with red lens shall be provided, two (2) each side of lower apparatus, one each side above rear wheel wells and each one side at Rear bumper ends. 2. The strobe lights shall be controlled by a strobe power supply. 3. The lights shall be switched at 24 volt control rocker panel in cab. <p>21.1.3 <u>Rear Lower Warning Lights</u></p> <ol style="list-style-type: none"> 1. Two (2) lights with red lens shall be provided on the rear of lower body area. 2. The strobe lights shall be controlled by a strobe power supply. 3. The lights shall be switched at 24 volt control rocker panel in cab.
22.COMMAND LIGHT TOWER WITH BACK LIGHT OPTION		<ol style="list-style-type: none"> 1. The apparatus shall be equipped with one (1) NIGHTSCAN POWERLITE NS10-9000 all –electric flood light tower. 2. The unit shall not require tapping into vehicle braking system to be operated, eliminating the chance for vehicle brake problems. 3. The light bank shall have six (6) weather-proof, 1500 watt. 240 volt quartz halogen lights.

		<p>4. Light heads shall be mounted in three (3) pairs, giving two (2) vertical lines of three (3) when the lights are in the upright position. The lower pair of light of light heads shall be capable of being rotated about a horizontal axis to provide light to the opposite side of the apparatus.</p> <p>5. Power for light bank shall be transmitted through power collecting rings thus allowing 360+ degrees rotation in either direction.</p> <p>6. The light tower shall be capable of overhanging the side or back of the vehicle (depending on mounting location) to provide maximum illumination and a warning are adjacent to the vehicle. Positioning of the light bank shall be accomplished with maintenance free, heavy duty 12 volt linear actuators.</p> <p>7. The Command Light assembly shall be all aluminium construction, with stainless steel shafts and bronze bushings for long life and low maintenance.</p> <p>8. Light tower shall be controlled with a hand-held umbilical line remote control. Command Light to be equipped with "Auto-Park" automatic nesting feature.</p>
	<u>22.1COMMAND LIGHT CONTROLS</u>	<p>22.1.1 Three (3) switches, one (1) for each light bank</p> <p>22.1.2 One (1) light bank rotation switch</p> <p>22.1.3 One (1) switch for elevating lower stage</p> <p>22.1.4 One (1) switch for elevating upper stage</p> <p>22.1.5 One (1) light to indicate when light bank is out of roof nest position</p> <p>22.1.6 One (1) light to indicate when light bank is rotated to proper nest position</p> <p>22.1.7 One (1) back light rotation switch</p> <p>22.1.8 The Light Tower shall have a full extension of 3 meters from mounted position and shall extend from nested position to full upright in less than 20 seconds.</p> <p>22.1.9 A flashing warning light shall be provided in cab/command centre, indicating when a light tower is not in nested position. The operational envelope of the mast shall be automatically illuminated whenever the mast assembly is being raised, lowered, or rotated.</p> <p>22.1.10 The Command Light shall be covered by a one (1) year limited warranty from defects in materials and workmanship. An operation, maintenance, and parts manual shall be provided with the delivered apparatus.</p> <p>22.1.11 The floodlight tower shall have a strobe indicator located on the top of the upper section.</p> <p>22.1.12 The strobe light shall have a green cover.</p>
23.ESCAPE HATCH AND SKYLIGHT		<p>1. The entrance of the Conference suite roof area shall be specially reinforced for the installation of a hinged door complete with fold-down ladder.</p> <p>2. The opening shall be capable of use as an escape hatch, ventilation and supplemental light in the interior of the body.</p> <p>3. The opening shall be approximately 500 mm x 500 mm in size and equipped with an aluminium door with brushed aluminium interior box pan.</p> <p>4. The opening shall be framed with a raised 25 mm lip to prevent water from entering the opening and a weather-proof gasket.</p> <p>5. The door shall flange down around the roof framing and slope forward so as not to hold water. An interior ¼ turn butterfly type latch shall be provided to hold hatch closed. One gas piston type door check to hold door in open position and that can be closed without unlatching</p>

		<p>shall be bolted to opening frame and door box pan.</p> <p>6. The hatch shall be specially reinforced for the installation of a large skylight.</p> <p>7. The skylight shall be 300 mm x 300 mm in size with clear Plexiglas or safety glass panel.</p> <p>8. The roof skylight shall be mounted in standard automotive rubber window mounting and shall be completely weather-proof and watertight.</p>
24. AIR-CONDITIONING SYSTEM		<p>1. The unit shall be fitted with a minimum of two (2) 220 VAC air conditioner units mounted on the vehicle roof externally capable of warm/cold functions.</p> <p>2. A variable speed fan shall supply a minimum of 305 cfm air flow capacity.</p> <p>3. The air conditioner will be able to operate with the vehicle in the stationery position whilst connected from 220 VAC supply.</p> <p>4. The roof mounted air conditioner shall be approximately 400 mm high x 800 mm wide x 1.2 meters long.</p> <p>5. Opening in roof shall be properly reinforced to support air conditioner and be supplied with a 25 mm rise to minimise moisture condensation under unit.</p> <p>6. Unit shall be fitted as follows:</p> <ul style="list-style-type: none"> - Conference room x 1 - Operations room x 1
25. INTERIOR PEDESTAL SEATS		<p>1. Eight (8) high back Executive pedestal type seat(s) with fore/aft adjustment shall be provided in Conference room.</p> <p>2. Each seat shall be mounted on a swivel style pedestal base and securely bolted to reinforced floor structure.</p>
26. WATER COOLER		<p>25.1 A water cooler shall be provided in galley above sink area.</p>
27. MICROWAVE		<p>26.1 A microwave oven shall be provided in the galley above sink area.</p>
28. CLOCKS WITH TEMPERATURE		<p>1. Two (2) clocks with outside temperature sensor shall be provided and located in the Conference Area, Operational Area.</p> <p>2. All clocks shall be wired together and sync for time with GPS sync module.</p>
29. ROOF		<p>The roof shall be reinforced allowing for a catwalk to be positioned across the complete roof providing easy access to the masts.</p>
30. MAST		<p>Supply and install a 5 section base tube Mast with the following features:</p> <p>Retracted Height – 1.65 m Extended height – 6.00 m Maximum headload – 22.5kg</p> <p><u>Technical features</u></p> <ol style="list-style-type: none"> 1. Aluminium alloy sections 2. Handpump 3. Mounting studs M8 4. Water-drain plug

		5. Air-release screw 6. Section-clamping screws 7. Guy collar 8. Quick-clamp for headload <u>Mast mounting accessories:</u> <ol style="list-style-type: none"> 1. Tripod Stand that is rotatable and non-rotatable mast up to 15m 2. Saddle clamps that are instantly removable 3. Wall mounting brackets that can be fixed to any suitable vertical surface
31.WINDOWS		The right rear side windows to be adequately tinted to reduce glare.
32.STORAGE COMPARTMENTS		The storage compartments shall be built in along the length of both sides of the vehicle.
33.ACCESS STEPS		Install fold-up steps to allow for access to the Command centre.
34. BASE RADIOS		<u>34.1 Supply and install Base Radios with the following features:</u> 34.1.1 General <ol style="list-style-type: none"> 1. Frequency – 136-174 MHz VHF, 403-470 MHz UHF 2. Stability – (-30°C to 60°C, 25°C Ref) 3. Channel capacity 255 UHF 4. Power output 1-25W on UHF and VHF 5. Operating temperature -30° to 60°C 6. Channel spacing 12.5/20/25 kHz 34.1.2 Transmitter <ol style="list-style-type: none"> 1. Modulation limiting $\pm 2.5\text{kHz}$ @ 12.5 kHz UHF 2. FM Hum and noise -40Db @ 12.5 kHz UHF 3. Conducted/Radiated Emissions -36dBm < 1 GHz 4. Audio distortion @ 1000 Hz, 60% Rated Maximum deviation 3% typical 34.1.3 Receiver <ol style="list-style-type: none"> 1. Sensitivity (12Dbsinad) (EN) 2. Intermodulation (EN) >65 dB UHF 3. Adjacent Channel 4. Audio Distortion @ rated audio 3% Typical 5. Hum and Noise -40dB @ 12.5kHz 6. Audio Response(300 to 300Hz) 7. Mobile military standards 34.2 Key features <ol style="list-style-type: none"> 1. character alpha-numeric display 2. Programmable buttons 3. PC programmable 4. Emergency signalling 5. External alarm 6. Meets IP54 environmental

		7. Channel scanning 8. Call forward 9. Voice operated transmit (VOX) 10. Microphone and desktop solution
35. DSTV Connection		Supply and install DSTV dish plus PVR.
36. REFLECTIVE STRIPE		A straight reflective stripe, 10 mm minimum in width, shall be applied horizontally around the cab and body.
37. SIGNWRITING		Sign writing shall be applied in accordance with the purchaser's instruction.
38. VEHICLE COLOURS		Cab : Chrome yellow – RAL 1023 Wheels: White aluminium acrylic – RAL 9006 Chassis: Graphite black matt - RAL 9011
39. LED SPOTLIGHT		400W Industrial flood light
40. CHASSIS – FRONT ENGINE	40.1 ENGINE	46.1.1 The engine shall be a six cylinder diesel front mounted, capable of producing sufficient power and torque to achieve the specified grade ability, start ability, and top speed economically and must meet Euro 4 exhaust emission requirements. 46.1.2 A 2 stage self-cleaning dry type air cleaner is required 46.1.3 The oil dipstick must be easily accessible for checking the oil level 46.1.4 A suitable protection system that monitors oil pressure, engine temperature, transmission temperature and coolant level incorporating an engine cut out function if any of the stated parameters are exceeded, must be fitted. 46.1.5 All fluid lines and air pipe work must be seamless, constructed of either stainless steel or anodized aluminium and must be designed to reduce air restrictions and leaks. Pipe work must be routed away from exhaust manifolds and other heat resources. 46.1.6 Careful consideration must be given to the location of the exhaust to ensure that no smoke enters inside the bus.
	40.2 COOLING SYSTEM	40.2.1 The water cooling system must be designed to prevent over heating during hot summer months and a coolant level sight glass must be installed. 40.2.2 The filler must be easily accessible 40.2.3 Radiator piping must preferably be of stainless steel or brass tubing and hoses must be of silicone rubber type.
	40.3 TRANSMISSION	40.3.1 The transmission must be fully automatic with integrated retarder. 40.3.2 The gear ratios in conjunction with the final drive ratio, must provide; - <ul style="list-style-type: none"> • A maximum governed road speed of approximately 100km/hr • A minimum grade ability of 25% (1 in 4) fully laden to G.V.M • A minimum start ability of 16% (1 in 6.25) fully laden to G.V.M 40.3.3 Emphasis must be placed on fuel economy and it is imperative that the transmission type and

		driveline proposed must be the most fuel efficient, and must meet all the above criteria. 40.3.4 All data substantiating the above must be submitted in writing.
	40.4 FINAL DRIVE	Tenderers must state the type of rear axle that are currently available in the bus model offered and should offer only that, that has been proven in the operating conditions described.
	40.5 FRONT AXLE	The front axle must be heavy duty with a design capacity of not less than 7000kg.
	40.6 SUSPENSION AND CHASSIS	40.6.1 Ground clearance should be not lower than 300mm other than under the axles 40.6.2 The suspension must provide good ride quality
	40.7 STEERING	Integral power assisted steering is required. Steering radius must not exceed 13.5 metres
	40.8 FUEL TANK	A short, deep fuel tank constructed of non-corrosive material with a capacity in the region of 200 litres is required. The filler neck must be fitted with an approved anti-siphon device.
	40.9 BRAKES	40.9.1 Dual circuit airbrakes are required, incorporating automatic slack adjusters and shall comply with SABS specification in all respects. 40.9.2 Documentation proof thereof is required. 40.9.3 The retarder must be activated by the foot brake. 40.9.4 An air coupling in accordance with SABS 1207/1506 must be mounted below the front bumper to be used when the vehicle is to be towed.
	40.10 TYRES	The tyres must be tubeless, radial type with sufficient carrying capacity and speed rating necessary to meet the requirements of the vehicle specification that is being tendered
41. BODY		Great emphasis is placed on the need for meticulous rust procedures to withstand the coastal climatic conditions. Complete body is expected to have a minimum service life of 12 to 15 years, with minimum maintenance. Tenderers must therefore, submit full details of all proposed rust proofing procedures. The guarantee against corrosion must be stated precisely and may not be less than 5 years. Note: It is considered that to comply with the maintenance level required, the frame will need to be constructed from 3CR12 steel as a minimum standard.
	41.1 BODY CONSTRUCTION	41.1.1 Body mounting must be approved from chassis supplier. 41.1.2 Complete details of body construction must be submitted, including proposed materials to be used in the frame and paneling. 41.1.3 Tenderers must take full advantage of as much locker space under the floor as possible:

	41.2 ROOF	<p>41.2.1 The roof shall be reinforced to allow for sufficient support for a roof deck, which would need to be covered with 3mm aluminium checker plate. A fold down aluminium hand rail approximately 1 metre high around the perimeter of the roof must be provided.</p> <p>41.2.2 A removable step ladder for gaining access to the roof must also be provided.</p> <p>41.2.3 Suitable 3CR12 structure is also required to protect the air-conditioning units which will be exposed.</p>
	41.3 DIMENSIONS	<p>41.3.1 A maximum body width 2.6 metres.</p> <p>41.3.2 A minimum ceiling height of not less than 1.9 metres.</p>
	41.4 SIDE WINDOWS	<p>41.4.1 Window size must be large. i.e. Approx. 1200mm in length and 1000mm in height, and must be of tinted glass.</p> <p>41.4.2 The top section of approx. 100mm of every second window needs to be able to flip open to gain fresh air in the event of the air-con not functioning</p>
	41.5 ENGINE COMPARTMENTS	<p>41.5.1 The suppression of heat and noise is of critical importance and in this regard tenderers must make use of materials from specialised companies such as Sondor, in achieving insulation of the engine compartment and wherever necessary on the floor areas and floor trap door areas.</p> <p>41.5.2 The maximum noise level in the interior should not exceed 65 db(a) for a maximum period of 3 minutes when travelling at 50 km/hour.</p>
	41.6 MATERIALS (PANELLING AND FLOORING)	<p>41.6.1 External body panelling should be either chromoprep or aluminium.</p> <p>41.6.2 Flooring must be 1.5mm 3CR12 covered with 1.9mm ultra floor covering material.</p>
	41.7 AIR CONDITIONING	Please refer to item 24 in the enclosed tender document
	41.7 ENTRANCE AND EXIT DOOR	<p>41.7.1 One entrance and exit door is required and should be no less than 1100mm in width. The door will be positioned mid-ship between the front and rear axle on the near side of the body. A plug type door is required.</p> <p>41.7.2 avoid damage to the entrance and exit steps, tenderers are required to be innovative in designing the step structure.</p>
	41.8 DRIVER'S COMPARTMENT	<p>41.8.1 The seat shall be Isringhausen, air operated unit.</p> <p>41.8.2 Approved, full height partitioning shall be fitted at the rear of the driver's seat.</p> <p>41.8.3 Driver's compartment must be equipped with a lighting system independent of the lighting of the interior of the bus, so that light is not reflected in the panoramic glass and ensures safer driving.</p> <p>41.8.4 A demister for the full left and right side of the windscreen must be provided.</p> <p>41.8.5 A foot rest for the driver's left foot is also required.</p> <p>41.8.6 A sub visor for the driver is required.</p> <p>41.8.7 An SABS fire extinguisher, approximately 4.5kg</p>

		<p>capacity, of the stored pressure, dry powder type, covering A, B and C fires shall be mounted in approved position in the driver's compartment.</p> <p>The powder shall be colour coded and silicone to prevent compaction and the unit must incorporate a pressure gauge.</p> <p>41.8.8 Exterior rear view mirrors that comply with SABS specification SV1054/1981 shall be fitted.</p> <p>41.8.9 The windscreen must be laminated glass in a one piece configuration and must 41.8.10 Two pantograph wipers and windscreen washers must be fitted and controlled remotely from the driver's control panel.</p> <p>41.8.11 Instrumentation must be incorporated into an attractively designed dashboard constructed from hard wearing and high quality materials</p>
	41.9 REAR SECTION OF THE BODY	<p>No rear window is required and the design of the rear panel must eliminate all ridges and the rear number plate must be placed just above the rear bumper.</p>
42. INTERIOR AND EXTERIOR		<p><u>42.1.1 Exterior appearance</u></p> <p>Respondents must make every effort to design the vehicle to incorporate attractive image and should be aesthetically pleasing.</p>
		<p><u>42.1.2 Interior lighting</u></p> <p>Saloon lights should be of the bright clear, white LED lights</p>
		<p><u>42.1.3 Exterior lighting</u></p> <p>42.1.3.1 All exterior lighting, tail lights, brake lights, indicator lights and head lights must conform to the requirements of the South African Road Ordinance, however additional stop, tail and indicator lights are required to be situated in the top left and right hand side of the rear dome.</p> <p>42.1.3.2 Additional direction indicator lamps are also required in the top left and right hand side of the front dome.</p> <p>42.1.3.3 Lamps needs to be Wonder light LED type, and fitted with an anti-theft ring. Lamps must have a diameter of not less than 110mm. All rear lights are to be of the same make and type, positioned according to diagram annexure A and B.</p>
		<p><u>42.1.4 Interior finish</u></p> <p>42.1.4.1 Every possible step must be taken to ensure that easy cleaning of the vehicle can be carried out. The floor must be radiused at the sides and all joints are of such a type that in cleaning operation no foreign matter will remain on the floor after sweeping.</p> <p>42.1.4.2 All trap doors must be made airtight and positioned as indicated by the chassis manufacturer. The trap doors must be of</p>

		suitable dimension to enable easy access to all major mechanical components.
43.ELECTRICAL POWER SUPPLY		<p>43.1 The vehicle must be provided with a dual battery 24 volt DC electrical system.</p> <p>40.23.2 The vehicle is required to have a 90 amp alternator which shall be protected against reverse polarity and open circuit. Adequate swing out under floor battery cradles must be provided.</p> <ul style="list-style-type: none"> • Main batteries: To supply only starter and vehicle system. • Auxiliary batteries: To supply auxiliary systems <p>43.2 Two solar panels must be incorporated to maintain battery power when the vehicle is not in use.</p>
44. SAFETY AND SECURITY		<p>44.1 The vehicle must be designed and manufactured in accordance with all fire safety and smoke emission standards, and where possible these provisions must include the use of fire retardant and low smoke materials.</p> <p>44.2 Emergency windows must be furnished with fragmentation mechanisms as provided for in SABS standards. The windows must be easily and quickly activated from inside the vehicle at any time during operation.</p> <p>44.3 Each emergency window must have a minimum free area of 4000cm squared such that a rectangle of 500mm X 700mm can be passed through it and must comply with the latest SABS specifications for emergency exits.</p> <p>44.4 A three point seat belt conforming to the relevant SABS specification must be provided for the driver's seat.</p> <p>44.5 Fuel ducts must be positioned to ensure that any leak does not fall onto the exhaust of the engine.</p> <p>44.6 The headlights should be suitable for use during daylight hours for safety reasons.</p> <p>44.7 A system to enable the door to be opened from the exterior in an emergency must be incorporated.</p>
45. MAINTENANCE AND REPLACEMENT OF ALL EQUIPMENT INSTALLED FOR THE PERIOD OF THIRTY SIX (36) MONTHS		The maintenance and replacement of all equipment must be included for a period of 36 months.
46.CELLULAR /SATELLITE CONNECTIVITY		Supply of 2 x latest cellular phones on two separate networks and one satellite phone valid for the period of the contract with subscriptions.

SBD 6.2**DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS**

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2011, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9) makes provision for the promotion of local production and content.
- 1.2. Regulation 9.(1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on <http://www.thedti.gov.za/industrial development/ip.jsp> at no cost.

- 1.6 A bid may be disqualified if –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and

- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour or intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.
3. **The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
BODY	100 %
_____	_____ %
_____	_____ %

4. Does any portion of the services, works or goods offered have any imported content?

(Tick applicable box)

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
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- 4.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?

(Tick applicable box)

YES		NO	
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5.1. If yes, provide the following particulars:

- (a) Full name of auditor:
- (b) Practice number:
- (c) Telephone and cell number:
- (d) Email address:

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

6. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution):

.....
NB

1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thdti.gov.za/industrialdevelopment/ip.jsp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date**

and time of the bid in order to substantiate the declaration made in paragraph (c) below.

Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
do hereby declare, in my capacity as
of(name of bidder entity),
the following:

(a) The facts contained herein are within my own personal knowledge.

(b) I have satisfied myself that:

- (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
- (ii) the declaration templates have been audited and certified to be correct.

(c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.

The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Preferential Policy Framework Act (PPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

(C1)	Tender No.
(C2)	Tender description:
(C3)	Designated product(s)
(C4)	Tender Authority:
(C5)	Tendering Entity name:
(C6)	Tender Exchange Rate:
(C7)	Specified local content %

Specified local content %

intent

[illegible]

APPENDIX 2

DETAILS FOR COMPLETION OF AN ENVELOPE FOR A BID/QUOTATION

Section 1 paragraph 6 of this bid/quotation document indicates the requirements for addressing of an envelope when a bid/quotation is submitted to the Department. Kindly ensure the envelope is addressed correctly because if it is not properly addressed the bid/quotation may be rejected as being invalid and returned to the respective bidder. The correct manner in which it is to be addressed is detailed below:

EXAMPLE FORMAT**FRONT SIDE OF ENVELOPE**

Name and address of bidder: XYZ Consultants,
PO Box 1234,
Durban
4000

Bid/Quotation Number: ZNT 1902/2018 LG

Description:

SUPPLY, MANUFACTURE AND DELIVERY OF A FULLY EQUIPED MOBILE COMMAND VEHICLE FOR THE PROVINCIAL DISASTER MANAGEMENT CENTRE

Closing date: 28 FEBRUARY 2019

Closing time: 11:00

REVERSE SIDE OF ENVELOPE

Department's details and address:

The Head: Supply Chain Management
Department of Co-operative Governance and Traditional Affairs
13th Floor, North Tower
Natalia Building
330 Langalibalele Street
Pietermaritzburg
3201

RETURNABLE DOCUMENTS

BIDDERS ARE REQUIRED TO ATTACH THE FOLLOWING DOCUMENT TOGETHER WITH THEIR PROPOSAL ON THE CLOSING DATE OF THE BID:

CERTIFIED COPY OF B-BBEE STATUS VERIFICATION CERTIFICATE
VALID PIN STATUS FROM SARS VALID FOR A MINIMUM OF 12 MONTHS
COMPANY PROFILE
PROOF OF REGISTRATION WITH CENTRAL SUPPLIER DATABASE (CSD)
PDF COPY OF PROPOSAL ON A DISC (COMPULSORY)

ANNEXURE "B"

GENERAL CONDITIONS OF CONTRACT¹

THE NATIONAL TREASURY
Republic of South Africa



GOVERNMENT PROCUREMENT:
GENERAL CONDITIONS OF CONTRACT
July 2010

NOTES

The purpose of this document is to:

- (i) Draw special attention to certain general conditions applicable to government bids, contracts and orders; and
- (ii) To ensure that clients be familiar with regard to the rights and obligations of all parties involved in doing business with government.

In this document words in the singular also mean in the plural and vice versa and words in the masculine also mean in the feminine and neuter.

1. The General Conditions of Contract will form part of all bid documents and may not be amended.
2. Special Conditions of Contract (SCC) relevant to a specific bid, should be compiled separately for every bid (if applicable) and will supplement the General Conditions of Contract. Whenever there is a conflict, the provisions in the SCC shall prevail.

GENERAL CONDITIONS OF CONTRACT

¹ A copy of the complete document set containing the General Conditions of Contract is available on www.kzncogta.gov.za/bids

TABLE OF CLAUSES

1. Definitions
2. Application
3. General
4. Standards
5. Use of contract documents and information; inspection
6. Patent rights
7. Performance security
8. Inspections, tests and analysis
9. Packing
10. Delivery and documents
11. Insurance
12. Transportation
13. Incidental services
14. Spare parts
15. Warranty
16. Payment
17. Prices
18. Contract amendments
19. Assignment
20. Subcontracts
21. Delays in the supplier's performance
22. Penalties
23. Termination for default
24. Dumping and countervailing duties
25. Force Majeure
26. Termination for insolvency
27. Settlement of disputes
28. Limitation of liability
29. Governing language
30. Applicable law
31. Notices
32. Taxes and duties
33. National Industrial Participation Programme (NIPP)
34. Prohibition of restrictive practices