

## SBD 3.1

Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
9	6130T05030158	POWER SUPPLY, UPS, UNINTERRUPTED, 10KVA	1		
10	5810T05084497	2KVA UPS RACKMOUNT	1		
11	6130T05082203	POWER SUPPLY, UPS, UNINTERRUPTED, 5KVA	1		
12	9825t05084120	SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF CCTV SYSTEM	1		
13	5340t05044504	BRACKETS FOR PTZ CAMERA	1		
14	9825t05084514	MAINTENANCE, CCTV SYSTEM	1		
15	7030T05084680	SOFTWARE, BACKUP, FOR CCTV SYSTEM	1		
16	6350T05061699	SYSTEM, CCTV CAMERA, SEPARATE RECORDING SYSTEM FOR EACH BUILDING 2X 32 SCREENS FOR 24HR VISUAL	1		
17	7025T05057772	4TB HARD DRIVE	1		
18	5810T05084487	TRENCHING GRAVEL 850 X 450 X 1000	1		
19	5810T05084488	TRENCHING SOFT ROCK 850 X 450 X	1		
20	5810T05084489	TRENCHING HARD ROCK 850 X 450 X 1000	1		
21	5820T05082205	16 CHANNEL NVR	1		
22	5930T05060868	SWITCH, 5 PORT POE, CCTV	1		

## SBD 3.1

Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
23	5810T05084495	SWITCH 12 PORT POE	1		
24	5930T05082207	SWITCH, 8 PORT POE, CCTV	1		
25	5930T05070800	SWITCH, 16 PORT POE, CCTV	1		
26	5930T05082208	SWITCH, 32 PORT POE, CCTV	1		
27	5930T05083956	SWITCH, 24 PORT POE, CCTV	1		
27	5930T05084526	SWITCH, 26 PORT POE, CCTV	1		
28	5930T05084525	SWITCH, 48 PORT POE, CCTV	1		
29	6710T05084527	CAMERA INDOOR BULLET 4MP	1		
30	6710t05084528	CAMERA INDOOR BULLET 8MP	1		
31	6710t05084520	READER, NUMBER PLATE, AUTOMATED, (ANPR) 4MP BULLET	1		
32	6710t05082217	CAMERA, BULLET, LRP, 5MP, MINIMUM, CCTV	1		
33	6710t05084521	READER, NUMBER PLATE, AUTOMATED, (ANPR) 6MP BULLET	1		
34	6710t05084522	READER, NUMBER PLATE, AUTOMATED, (ANPR) 8MP BULLET	1		
35	6710t05084523	READER, NUMBER PLATE, AUTOMATED, (ANPR) 12MP BULLET	1		



## SBD 3.1

Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
36	6710t05082216	CAMERA, BULLET, 5MP, MINIMUM,CCTV	1		
37	6710t05082209	CAMERA, 2 MEGAPIXEL, MINIMUM DOME, CCTV	1		
38	6710t05082210	CAMERA, 3 MEGAPIXEL, MINIMUM DOME, CCTV	1		
39	6710t05082211	CAMERA, 4 MEGAPIXEL, MINIMUM DOME, CCTV	1		
40	6710t05082212	CAMERA, 5 MEGAPIXEL, MINIMUM DOME, CCTV	1		
41	6710t05082214	CAMERA, DOME, SECURITY, 180 DEGREE, ULTRA WIDE/FISHEYE LENS, CCTV	1		
42	6710t05082215	CAMERA, DOME, SECURITY, 360 DEGREE, 5 MP, CCTV	1		
43	6710t05082209	CAMERA, 2 MEGAPIXEL, MINIMUM DOME, CCTV	1		
44	6710t05084098	CAMERA, DOME, HIGH SPEED 360 DEGREE, 25XZOOM, BUILT IN INFRA-RED -20M, DETENTION AND AUTO TRACKING, 4K RESOLUTION 100% VISUAL IDENTIFICATION	1		
45	6710t05084440	CAMERA OUTDOOR- DOME WITH MICROPHONE (TAMPER PROOF)	1		
46	6710t05084441	CAMERA OUTDOOR- DOME /360 DEGREE, LIGHTING (VISIBLE + IR)	1		

Required by: **SAPS CRIME INTELLIGENCE**

- **At: Crime Intelligence (463 Prieska Sreet, Erasmuskloof Ext 3, Pretoria)**
  
- Brand and model .....
- Does the offer comply with the specification(s)? \*YES/NO
- If not to specification, indicate deviation(s) .....
- Period required for delivery .....  
\*Delivery: Firm/not firm
- Delivery basis .....

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

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

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## DIV: SUPPLY CHAIN MAN - WPSP

Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
1	6710T05084121	CAMERA 4MP DOME VANDAL RESISTANT , CCTV	1		
2	9825T05085223	PROVISION OF SERVICES FOR CCTV SYSTEM	1		
3	6130t05027868	POWER SUPPLY, CCTV, 9 WAY, 10 AMP, 4 CAMERAS	1		
4	6130t05024951	POWER SUPPLY, PSU, 9 WAY	1		
5	6125t05026174	INVERTER, POWER SUPPLY, 1000W, WAECO	1		
6	6130T05057774	POWER SUPPLY CCTV	1		
7	6150T05029833	POWER SUPPLY,220V, AC, 50HZ, 24VAC, 800MA, 20VA OUT	1		
8	6130T05030157	POWER SUPPLY, UPS, UNINTERRUPTED, 3KVA	1		
9	6130T05030158	POWER SUPPLY, UPS, UNINTERRUPTED, 10KVA	1		
10	5810T05084497	2KVA UPS RACKMOUNT	1		
11	6130T05082203	POWER SUPPLY, UPS, UNINTERRUPTED, 5KVA	1		

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Item Nr	ICN NUMBER	DESCRIPTION	QUANTITY	Unit Cost (Incl VAT)	Lead Time
12	9825t05084120	SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF CCTV SYSTEM	1		
13	5340t05044504	BRACKETS FOR PTZ CAMERA	1		
14	9825t05084514	MAINTENANCE, CCTV SYSTEM	1		
15	7030T05084680	SOFTWARE, BACKUP, FOR CCTV SYSTEM	1		
16	6350T05061699	SYSTEM, CCTV CAMERA, SEPARATE RECORDING SYSTEM FOR EACH BUILDING 2X 32 SCREENS FOR 24HR VISUAL	1		
17	7025T05057772	4TB HARD DRIVE	1		
18	5810T05084487	TRENCHING GRAVEL 850 X 450 X 1000	1		
19	5810T05084488	TRENCHING SOFT ROCK 850 X 450 X	1		
20	5810T05084489	TRENCHING HARD ROCK 850 X 450 X 1000	1		
21	5820T05082205	16 CHANNEL NVR	1		
22	5930T05060868	SWITCH, 5 PORT POE, CCTV	1		



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30	6710t05084528	CAMERA INDOOR BULLET 8MP	1		
31	6710t05084520	READER, NUMBER PLATE, AUTOMATED, (ANPR) 4MP BULLET	1		
32	6710t05082217	CAMERA, BULLET, LRP, 5MP, MINIMUM, CCTV	1		
33	6710t05084521	READER, NUMBER PLATE, AUTOMATED, (ANPR) 6MP BULLET	1		
34	6710t05084522	READER, NUMBER PLATE, AUTOMATED, (ANPR) 8MP BULLET	1		
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39	6710t05082211	CAMERA, 4 MEGAPIXEL, MINIMUM DOME, CCTV	1		
40	6710t05082212	CAMERA, 5 MEGAPIXEL, MINIMUM DOME, CCTV	1		
41	6710t05082214	CAMERA, DOME, SECURITY, 180 DEGREE, ULTRA WIDE/FISHEYE LENS, CCTV	1		
42	6710t05082215	CAMERA, DOME, SECURITY, 360 DEGREE, 5 MP, CCTV	1		
43	6710t05082209	CAMERA, 2 MEGAPIXEL, MINIMUM DOME, CCTV	1		
44	6710t05084098	CAMERA, DOME, HIGH SPEED 360 DEGREE, 25XZOOM, BUILT IN INFRA-RED -20M, DETENTION AND AUTO TRACKING, 4K RESOLUTION 100% VISUAL IDENTIFICATION	1		
45	6710t05084440	CAMERA OUTDOOR- DOME WITH MICROPHONE (TAMPER PROOF)	1		
46	6710t05084441	CAMERA OUTDOOR- DOME /360 DEGREE, LIGHTING (VISIBLE + IR)	1		

Required by: SAPS :DIVISION: SUPPLY CHAIN MANAGEMENT

- At: 117 Creswell Road, Silverton, Pretoria
- Brand and model .....
- Does the offer comply with the specification(s)? \*YES/NO
- If not to specification, indicate deviation(s) .....
- Period required for delivery .....  
\*Delivery: Firm/not firm
- Delivery basis .....

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

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

\*Delete if not applicable

## CRC &amp; FSS FINANCE &amp; ADMIN

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4	6130t05024951	POWER SUPPLY, PSU, 9 WAY	1		
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19	5810T05084488	TRENCHING SOFT ROCK 850 X 450 X	1		
20	5810T05084489	TRENCHING HARD ROCK 850 X 450 X 1000	1		
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28	5930T05084525	SWITCH, 48 PORT POE, CCTV	1		
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## SBD 3.1

Required by: **SAPS: CRC & FSS FINANCE & ADMIN: TELKOM TOWERS**

- **At: Telkom Towers North, 152 Johannes Ramokhoase Str, Pretoria Central, Pretoria**
  
- Brand and model .....
- Does the offer comply with the specification(s)? \*YES/NO
- If not to specification, indicate deviation(s) .....
- Period required for delivery .....  
\*Delivery: Firm/not firm
- Delivery basis .....

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.

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

\*Delete if not applicable

## BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

### 2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</sup> in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship

<sup>1</sup> the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

with any person who is employed by the procuring institution? YES/NO

2.2.1 If so, furnish particulars:

.....  
 .....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? YES/NO

2.3.1 If so, furnish particulars:

.....  
 .....

### 3 DECLARATION

I, \_\_\_\_\_ the \_\_\_\_\_ undersigned,  
 (name)..... in  
 submitting the accompanying bid, do hereby make the following  
 statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 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 consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 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.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring

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<sup>2</sup> 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.



institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

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

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....	.....
Signature	Date
.....	.....
Position	Name of bidder

This document must be signed and submitted together with your bid

## THE NATIONAL INDUSTRIAL PARTICIPATION PROGRAMME

### INTRODUCTION

The National Industrial Participation (NIP) Programme, which is applicable to all government procurement contracts that have an imported content, became effective on the 1 September 1996. The NIP policy and guidelines were fully endorsed by Cabinet on 30 April 1997. In terms of the Cabinet decision, all state and parastatal purchases / lease contracts (for goods, works and services) entered into after this date, are subject to the NIP requirements. NIP is obligatory and therefore must be complied with. The Industrial Participation Secretariat (IPS) of the Department of Trade and Industry (DTI) is charged with the responsibility of administering the programme.

### 1 PILLARS OF THE PROGRAMME

- 1.1 The NIP obligation is benchmarked on the imported content of the contract. Any contract having an imported content equal to or exceeding US\$ 10 million or other currency equivalent to US\$ 10 million will have a NIP obligation. This threshold of US\$ 10 million can be reached as follows:
  - (a) Any single contract with imported content exceeding US\$10 million.  
or
  - (b) Multiple contracts for the same goods, works or services each with imported content exceeding US\$3 million awarded to one seller over a 2 year period which in total exceeds US\$10 million.  
or
  - (c) A contract with a renewable option clause, where should the option be exercised the total value of the imported content will exceed US\$10 million.  
or
  - (d) Multiple suppliers of the same goods, works or services under the same contract, where the value of the imported content of each allocation is equal to or exceeds US\$ 3 million worth of goods, works or services to the same government institution, which in total over a two (2) year period exceeds US\$10 million.
- 1.2 The NIP obligation applicable to suppliers in respect of sub-paragraphs 1.1 (a) to 1.1 (c) above will amount to 30 % of the imported content whilst suppliers in respect of paragraph 1.1 (d) shall incur 30% of the total NIP obligation on a *pro-rata* basis.
- 1.3 To satisfy the NIP obligation, the DTI would negotiate and conclude agreements such as investments, joint ventures, sub-contracting, licensee production, export promotion, sourcing arrangements and research and development (R&D) with partners or suppliers.

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- 1.4 A period of seven years has been identified as the time frame within which to discharge the obligation.

## **2 REQUIREMENTS OF THE DEPARTMENT OF TRADE AND INDUSTRY**

- 2.1 In order to ensure effective implementation of the programme, successful bidders (contractors) are required to, immediately after the award of a contract that is in excess of **R10 million** (ten million Rands), submit details of such a contract to the DTI for reporting purposes.

- 2.2 The purpose for reporting details of contracts in excess of the amount of R10 million (ten million Rands) is to cater for multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as provided for in paragraphs 1.1.(b) to 1.1. (d) above.

## **3 BID SUBMISSION AND CONTRACT REPORTING REQUIREMENTS OF BIDDERS AND SUCCESSFUL BIDDERS (CONTRACTORS)**

- 3.1 Bidders are required to sign and submit this Standard Bidding Document (SBD 5) together with the bid on the closing date and time.

- 3.2 In order to accommodate multiple contracts for the same goods, works or services; renewable contracts and multiple suppliers for the same goods, works or services under the same contract as indicated in sub-paragraphs 1.1 (b) to 1.1 (d) above and to enable the DTI in determining the NIP obligation, successful bidders (contractors) are required, immediately after being officially notified about any successful bid with a value in excess of R10 million (ten million Rands), to contact and furnish the DTI with the following information:

- Bid / contract number.
- Description of the goods, works or services.
- Date on which the contract was accepted.
- Name, address and contact details of the government institution.
- Value of the contract.
- Imported content of the contract, if possible.

- 3.3 The information required in paragraph 3.2 above must be sent to the Department of Trade and Industry, Private Bag X 84, Pretoria, 0001 for the attention of Mr Elias Malapane within five (5) working days after award of the contract. Mr Malapane may be contacted on telephone (012) 394 1401, facsimile (012) 394 2401 or e-mail at [Elias@thedti.gov.za](mailto:Elias@thedti.gov.za) for further details about the programme.

## **4 PROCESS TO SATISFY THE NIP OBLIGATION**

- 4.1 Once the successful bidder (contractor) has made contact with and furnished the DTI with the information required, the following steps will be followed:

- a. the contractor and the DTI will determine the NIP obligation;
- b. the contractor and the DTI will sign the NIP obligation agreement;



- c. the contractor will submit a performance guarantee to the DTI;
- d. the contractor will submit a business concept for consideration and approval by the DTI;
- e. upon approval of the business concept by the DTI, the contractor will submit detailed business plans outlining the business concepts;
- f. the contractor will implement the business plans; and
- g. the contractor will submit bi-annual progress reports on approved plans to the DTI.

4.2 The NIP obligation agreement is between the DTI and the successful bidder (contractor) and, therefore, does not involve the purchasing institution.

Bid number .....	Closing date:.....
Name of bidder.....	
Postal address .....	
.....	
Signature.....	Name (in print).....
Date.....	

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## PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

**NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022**

### 1. GENERAL CONDITIONS

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

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

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

*(delete whichever is not applicable for this tender).*

- a) The applicable preference point system for this tender is the **90/10** preference point system.
- ~~b) The applicable preference point system for this tender is the **80/20** preference point system.~~
- c) Either the **90/10 or 80/20 preference point system** will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

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

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

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

The maximum points for this tender are allocated as follows:

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

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- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

## 2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

## 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

### 3.1. POINTS AWARDED FOR PRICE

#### 3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps = 80 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right)} & \mathbf{or} & \mathbf{Ps = 90 \left( 1 - \frac{Pt - P_{min}}{P_{min}} \right)} \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

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### 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

#### 3.2.1. POINTS AWARDED FOR PRICE

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

$$\begin{array}{ccc} 80/20 & \text{or} & 90/10 \\ P_s = 80 \left( 1 + \frac{P_t - P_{max}}{P_{max}} \right) & \text{or} & P_s = 90 \left( 1 + \frac{P_t - P_{max}}{P_{max}} \right) \end{array}$$

Where

- $P_s$  = Points scored for price of tender under consideration  
 $P_t$  = Price of tender under consideration  
 $P_{max}$  = Price of highest acceptable tender

#### 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
  - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

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

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Persons historically disadvantaged on the basis of race with at least 51% ownership	3 points	Not applicable		Not applicable
Persons historically disadvantaged on the basis of gender with at least 51% ownership by woman	3 points	Not applicable		Not applicable
Persons with at least 51% ownership who are youth	2 points	Not applicable		Not applicable
Persons historically disadvantaged by unfair discrimination on the basis of disability with at least 51% ownership	2 points	Not applicable		Not applicable

#### DECLARATION WITH REGARD TO COMPANY/FIRM

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

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company

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- ☐ (Pty) Limited
  - ☐ Non-Profit Company
  - ☐ State Owned Company
- [TICK APPLICABLE BOX]

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
  - (a) disqualify the person from the tendering process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution, if deemed necessary.

..... <b>SIGNATURE(S) OF TENDERER(S)</b>	
<b>SURNAME AND NAME:</b>	.....
<b>DATE:</b>	.....
<b>ADDRESS:</b>	.....
	.....
	.....
	.....

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**SPECIFICATION FOR THE SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, TRAINING AND WARRANTY OF CLOSED-CIRCUIT TELEVISION AND ACCESS CONTROL SYSTEMS FOR DIVISION CRIME INTELLIGENCE, DIVISION SUPPLY CHAIN MANAGEMENT AND TELKOM TOWERS - NORTH TOWER WITH MAINTENANCE AND SUPPORT: SOUTH AFRICAN POLICE SERVICE**

**SCOPE OF THE REQUIREMENT**

This specification calls for the supply, delivery, installation, commissioning, training and warrantee of Closed Circuit Television (CCTV) and access control systems for the South African Police Service (SAPS). The requirement includes maintenance and support of all systems deployed under this contract as per attached separate Maintenance and Support specification. The requirement is to be implemented at SAPS' Division Crime Intelligence – Erasmuskloof Building, Division Supply Chain Management And Telkom Towers - North Tower. This bid will not be awarded as a whole but per side. **Bill of Material will be consolidated with the vetted suppliers.**

Delivery of equipment is required within two (2) weeks and system commissioning within six (6) weeks from issuing of SAPS order, with one (1) year warranty period after commissioning of the systems at no cost to the state and maintenance and support for a period of five (5) years maintained over a warranty period of a year at no cost to the state and maintenance and support for period of 5 years at state costs.

**DOCUMENT FORMAT**

This document is divided into subsections viz.

1. Project Introduction
2. General System Concept Response Table.
3. Detail response table including the following:
  - 3.1 Bid Conditions,
  - 3.2 General Requirements
  - 3.3 Detailed Technical Requirements
4. Maintenance and Support Specification
5. Cabling Standard
6. Appendixes

**IMPORTANT NOTICE**

Bidder's attention is drawn to the bid conditions as specified in section 1 of the detail response table of the document and specifically to paragraph 1.1. Also see par 1 of the General System Concept Response Table.

Bidders must strictly follow the guidelines specified in section 1, to ensure that the completion of the bid document complies in all aspects with the requirements of the SAPS.

Disregarding this notice and the guidelines as specified in section 1, will have the result that the SAPS will not consider and evaluate the bidder's offer.

Bidders are also requested to complete the documents and supply all information to the best of their ability as requested by the SAPS in this document.

**PROJECT INTRODUCTION:**

1. Supply, delivery, installation, commissioning, testing, training and certification of:
  - 1.1. Closed Circuit Television system comprising cameras, network, storage, and data centre infrastructure including cooling system.
  - 1.2. Access Control System.
  - 1.3. Perimeter breach alarm systems as described below.
  - 1.4. Autonomous power provision including uninterruptable power supply, backup power generation and autonomous reticulation.

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- 1.5. Technical documentation including detailed maintenance documentation and as-built documentation.
- 1.6. Training for both SAPS Technicians and System Users.
- 1.7. Warrantee maintenance of the system at no additional cost to the state compliant to specification for a minimum period of one year.
- 1.8. Paid maintenance that the bidder must offer on the date and time that the bid closes for a period as specified in the specification.
- 1.9. Inventory development to enable SAPS to record all items in the system on SAPS asset register.
- 1.10. Support to SAPS staff in the codification of all items as well as the development of a detailed inventory of items supplied in the project.
- 1.11. The following sub-systems must be provided as part of this project:
  - 1.11.1 Internal CCTV coverage of each secured area or space that records all internal activity including authorized activity as well as security breaches.
  - 1.11.2 Biometric Access control systems with all required components.
  - 1.12 Network installation to connect all sub systems.
  - 1.13 Data storage including server room infrastructure.
  - 1.14 Autonomous power provision for all sub systems of the CCTV, access control and security technology systems as described in the specification.
  - 1.15 The de-commissioning and removal of redundant security systems that is withdrawn from the premises including:
    - 1.15.1 Development of an inventory of decommissioned items.
    - 1.15.2 Packaging and labelling of items for disposal in accordance with SAPS instructions.
    - 1.15.3 Disposal of all items not fit for sale on auction. SAPS will classify items as fit for auction or not fit for auction from the inventory developed.
  - 1.16 Project management planning and project monitoring documentation developed and maintained on Microsoft Project in conjunction with SAPS Program Management office for the scheduling and management of project activities.
  - 1.17 Perimeter CCTV coverage that will cover complete perimeter of the site along the fence line around the premises. This will include video motion detection day and night to reliably detect any perimeter breach and raise visual as well as audible alarm in the control room as well as at the gate guardroom.
  - 1.18 Wide-angle CCTV coverage of the entire terrain that will enable security staff to follow movement of persons on the terrain from a perimeter breach or any other authorised or unauthorised terrain entry to any point in the terrain or to any secured area in the terrain.
  - 1.19 Secondary perimeter coverage around close perimeter of each secured area to detect any attempt at unauthorised entry to a secured area or space.

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DESCRIPTION		COMPLY / DO NOT COMPLY
2.	<b>GENERAL SYSTEM CONCEPT RESPONSE TABLE</b>	
2.1	<b>Completion of Bid Documents:</b>	
2.1.1	Bidders must explicitly state either "Comply" or "Do not Comply" regarding all the requirements outlined in this document, except where otherwise stated. Bidders' must avoid terms such as "yes", "no", "noted", "accepted", "as specified", "see attached letters" etc.	STATE:
2.1.2	The SAPS has a need to secure the facility as outlined in this specification. At the outset in terms of a proper systems engineering process, the purpose and operational performance required, needs to be understood in order to achieve the purpose of the system.	STATE:
2.1.3	The SAPS controls facilities where valuable assets, evidence and sensitive documentation is handled and needs to ensure that access to such assets, evidence and documentation is controlled in an appropriate manner.	STATE:
2.1.4	In order to achieve the required level of security the SAPS elects to deploy Closed Circuit Television surveillance systems combined with Access Control System. The following describes an overview of the required system functionality.	STATE:
2.2	<b>Access Control</b>	
2.2.1	The access control system is required to grant access to persons authorised to access the facility for purposes of their daily duties, as well as for visitors who need to access the facility for legitimate reasons.	STATE:
2.2.2	The access control system is required to effectively control access without obstructing service delivery. The access control system must also keep an accurate record of all access, including date, time and identity of all persons accessing a facility or departing from such a facility. The access control system must identify all persons entering a facility by means of biometric finger print scanning as a default manner of identification of employees. The Access control system must be integrated with the CCTV surveillance system and must share a database in such a manner that cross referencing between Access Control System data and CCTV data must be available as a standard system feature.	STATE:
2.2.3	The Access Control System database must be developed to interface to the SAPS PERSAL system such that access to facilities can be withdrawn from the system when employment of persons is terminated or such that access to various facilities can be granted via a central database to a collection of facilities that may be under a single command.	STATE:
2.2.4	Construction and or installation of boom-gates, turnstiles, electric gate motors, security gates as well as spikes is required in this bid. SAPS will identify and confirm sites where such construction will be required.	STATE:



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DESCRIPTION		COMPLY / DO NOT COMPLY
2.3	<b>Closed Circuit Television Surveillance System:</b>	
2.3.1	The CCTV system must keep a record of all authorised access as well as activities. The CCTV system must also keep a record of any unauthorised access and activities and must generate alarm and record events before, during and after any incident that requires response.	STATE:
2.3.2	The CCTV system must be integrated to the access control system and must also serve as a backup evidence gathering system that will enable SAPS to effectively investigate any breach in the access control of the facility. To this end the CCTV system must capture the facial features of every person that is granted access to the facility with a quality able to provide absolute identification of the person in question. This is referred to as forensic quality facial identification. This quality will apply at the access points to the facility. The access points to the facility will normally be the main as well as all other normal entrances of a building. This quality will only be repeated in other points in the building where secondary access control is applied to specific high security areas and where SAPS specifically identifies this quality to be applied.	STATE:
2.3.3	The normal routes that people follow in the facilities such as passages and foyers will be covered by static camera coverage that will enable SAPS to follow the movement of any person within the building or premises. SAPS need to be able to connect the image of forensic quality facial identification captured at any entry point to the actions of the person under surveillance at any point in the building by means of following the movement of the person from the entry point to any point in the facility where identity of the person may be in question.	STATE:
2.3.4	Main Entrance security: CCTV coverage must be provided as part of the system specifically to cover access routes to the main entrance of the facility. This CCTV footage must be displayed live at all times in the monitoring room to enable SAPS members on duty to have situational awareness of persons approaching the facility.	
2.4	<b>Image Analytics:</b>	
2.4.1	SAPS CCTV systems are required to make effective use of image analytics. Analytics available in the systems must include the following as a minimum:	STATE:
2.4.2	Intelligent Motion Detection able to minimise false alarms in open spaces where wind induced motion of plants etc. is present.	STATE:
2.4.3	Facial Recognition with a capability to generate an alert to security personnel when specific persons enter or attempt to enter the facility.	STATE:
2.4.4	Automatic Number Plate Identification.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
2.4.5	The CCTV system used must have a set of well-developed image analytics capabilities. The system must allow SAPS to add custom image analytics modules that the SAPS may source from other sources or may self-develop.	STATE:
2.5	<b>CCTV Quality Levels:</b>	
2.5.1	The SAPS defines for purposes of this specification the following 4 quality levels:	
2.5.1.1	Monitor: Images conforming to this quality level must allow SAPS to follow the motion of all extremities of the human body and must enable SAPS to identify at least race and gender of persons appearing in the images. The surveillance material certified to meet the monitoring standard must at least provide 12 frames per second of images that will enable motion to be followed fluently and must provide at least 250 pixels in height over the average length of a person (1.6 Meter).	STATE:
2.5.1.2	Recognition Quality: Images conforming to recognition quality must achieve facial recognition on the standard test faces of the Rotakin CCTV evaluation system. The system must at this level capture the facial features of persons with adequate fidelity to achieve better than 97% recognition of the Rotakin faces on the system by users who pass the South African Driver License eye test. The recognition quality level will enable SAPS to eliminate suspects from evaluation of their appearance, but is not expected to provide absolute evidence of identity. In the inside building coverage, the bidder is expected to ensure that persons cannot move between rooms or passages in a building without passing through at least recognition quality coverage.	STATE:
2.5.1.3	Forensic Identification Quality: Is defined as an image in which micro level features on the face, which includes scars, moles, wrinkles and other facial marks are effectively captured. This level of quality will enable identification of an individual to the degree that all reasonable doubt over identity of the individual is removed.	STATE:
2.5.1.4	Identification of specified Items: Is defined as a quality level engineered in a specific project for a specified purpose. Examples would be the optical capturing of the numbering and writing on sealed evidence containers such as the evidence bags used by SAPS, to provide record of receipt of items for analysis at a laboratory. In this case the requirement is to be documented in the project and custom specifications developed per case.	STATE:
2.6	<b>Private Spaces Within The Secured Area:</b>	
2.6.1	Within the secured area, private spaces such as ablution facilities and offices where sensitive materials are not handled will not be covered. The camera coverage must however be of adequate quality to ensure facial recognition of persons entering or leaving these private spaces. The coverage around the entrances of these private spaces must enable recognition of items down to the size of a golf ball such that an item captured in camera views will not	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
	be mistaken for a different item. This will serve to monitor items carried to and from the private spaces.	
2.7	<b>Storage of CCTV Data:</b>	
2.7.1	The CCTV data stored is required to facilitate investigation of incidents that occur in the SAPS facility. Incidents may be identified immediately or may only be identified at a later date. The ideal would be to keep data indefinitely. Storage of CCTV data in the case of buildings and premises is required as a norm for at least six weeks.	STATE:
2.7.2	Storage must be designed such that quality is not compromised. Footage specified to be of a quality as per quality standards above must be stored in the same quality such that review at any later date will achieve the same operational result.	STATE:
2.8	<b>Network:</b>	
2.8.1	The CCTV and access control system must be designed and built such that it must have no negative impact on the SAPS data services infrastructure in the building/facility. To this end the CCTV and Access Control System will be installed on an independent separate network infrastructure. This network must be specifically designed to deliver transmission facilities optimised for its purpose. This network must provide low latency, specifically to feeds from Pan Tilt Zoom cameras such that operators are not impeded in operational efficiency through undesirable networking phenomena.	STATE:
2.8.2	Remote access to the CCTV and Access Control System must be provided through a single port connected to the SAPS internal data services LAN in the building. This port must be connected via a computer that provides access control to the CCTV and access control system and that must host the profiles of users granted remote access. Remote access users of the system must not have direct access to the cameras via the IP network, but must have operational use rights only and no access to technical setup of the system.	STATE:
2.8.3	Network capacity design: The network transmission capacity must be designed with transmission capacity equal to the maximum data rate that can be generated with all cameras in the systems actively streaming at maximum data rate level simultaneously. Any capacity increase required in the network due to loss of data resulting from any inadequate network capacity where the equipment inventory is equal to the original equipment inventory, must be for the account of the bidder.	STATE:
2.9	<b>Control room:</b>	
2.9.1	The control room to be assembled at each site will act as the monitoring point where security personnel will monitor the security, CCTV and access control data on a 24 hour basis.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
2.9.2	The control room will function as a hub through which all the security information will be channelled to enable the security personnel to remotely ensure that the site monitored is secure and that all incidents are managed through the prescribed channels.	STATE:
2.9.3	The control rooms will enable the centralization of all the information in a manner that will ensure the correct protocols are followed. The managerial software of the security system will provide guidance to the security personnel in the event of incidents and provide reporting protocols.	STATE:
2.9.4	Security personnel will be expected to staff the control room, monitor the display walls and react to any incidents displayed on the video wall by the security management software. The personnel will be required to react in the appropriate manner to deal with the incident and where necessary must be able to interrogate the security system for protocols and reporting guidelines.	STATE:
2.9.5	The security system in the control room must be able to give the security personnel some access to controlling PTZ camera systems, through the control computer system, to follow certain incidents and provide guidance to security personnel on the terrain.	STATE:
2.10	<b>The control room must consist of:</b>	
2.10.1.1	At least two +40" HD monitors mounted in a video wall configuration. The selected CCTV data will be displayed on the video wall.	STATE:
2.10.1.2	In installations where the number of video feeds that need to be monitored exceeds the available display capability provided by the two 40" monitors, additional monitors must be provided and must be offered in the final design to be compiled by the bidder in contract implementation.	STATE:
2.10.1.3	Control computer systems, servers, cables, electricity supply systems, cooling/ air conditioning systems and back-up power supply systems.	STATE:
2.10.1.4	The necessary furniture to accommodate security personnel for long periods, up to 12 hour shifts. This includes chairs for the personnel to sit for extended periods to monitor the security system.	STATE:
2.10.1.5	Monitoring camera systems for the control room.	STATE:
2.10.1.6	Biometric finger print access and authorization systems.	STATE:
2.10.1.7	Magnetic door lock systems with escape switch systems.	STATE:
2.10.1.8	Control system for the PTZ cameras on the terrain.	STATE:
2.10.1.9	All items supplied, installed and commissioned by the successful bidder must form a complete an ergonomically optimized system, from main display performance, spot monitor selection, detail operator seating and equipment	STATE:



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DESCRIPTION		COMPLY / DO NOT COMPLY
	layout, operator man machine interface with equipment, lighting, seating position and all other factors that the successful bidder has control over.	
2.10.1.10	Complete camera control systems including joy-sticks, graphical user interfaces, track ball controllers and camera control keyboards must be supplied for each operator position such that each operator position is equipped for full functionality.	STATE:
2.10.1.11	The operator positions in the control room must all have the full functionality as defined in the various sub system descriptions (camera control, instant replay) for this control centre.	STATE:
2.10.1.12	All required furniture must be supplied to form an ergonomically designed whole system. The Successful Bidder must accept responsibility for ergonomic design for all items supplied by the Successful Bidder under this RFB.	STATE:
2.10.1.13	The operator positions in the control room must all have the full functionality as defined in the various sub system descriptions (camera control, instant replay) for this control centre.	STATE:
2.10.1.14	All software applications used in the control room for control of display record and replay systems, system and network management and maintenance and alarm notifications must be accessible via internal TCP IP dedicated LAN .	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3	<b>DETAIL RESPONSE TABLE INCLUDING THE FOLLOWING:</b>	
3.1	<b>Bid Conditions</b>	
3.1.1	<b>Completion Of Bid Documents</b>	
3.1.1.1	Whenever technical parameters are specified as requirements, bidders must state, besides the terms according to section 1.1 above, also the numerical value(s). Numerical values must be stated in the same units as the units of the technical parameters specified.	STATE
3.1.1.2	Bidders must make sure that the values specified are not in conflict with the values found in the technical documentation accompanying the bid reply.	STATE:
3.1.2	<b>Scheduling Of Items - Appendix A</b>	
3.1.2.1	The bid documents must include detailed lists of all items offered. All items that are included with the bidder's offer must be listed separately in an APPENDIX clearly labelled APPENDIX A - PART #1, "Original parts of product/service". All items that are offered as an option(s) must be listed separately in another APPENDIX clearly labelled APPENDIX A - PART #2, "Alternative equivalent parts for product".	STATE:
3.1.2.2	These two appendices must be compiled by the bidder, in a table format with the following columns:	
	a) Item number,	STATE:
	b) Item name,	STATE:
	c) Item description,	STATE:
	d) Manufacturers name and part/code number of item,	STATE:
	e) International ICN code if available,	STATE:
	f) Quantity of the item,	STATE:
	g) Item price including VAT, and	STATE:
	h) Total price including VAT.	STATE:
3.1.2.3	These appendices must be thoroughly and accurately completed.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.3	<b>Track Record - Appendix B</b>	
3.1.3.1	In order to establish whether the bidder has a proven track record in this field, details of users in the RSA to whom the bidder have successfully supplied the services and equipment offered, must be submitted with the bid documents for verification by the SAPS.	STATE:
3.1.3.2	The track record must be compiled by the bidder and labelled "Appendix B". The details of previous clients must include at least the following:	STATE:
	a) <b>Name of Client/Organization,</b>	STATE:
	b) <b>Full Postal and Street Address,</b>	STATE:
	c) <b>Telephone and Facsimile numbers, e-mail address</b>	STATE:
	d) <b>Contact Person,</b>	STATE:
	e) <b>Type and quantity of equipment supplied,</b>	STATE:
	f) <b>Date when contract was finally completed and equipment was handed to client, and</b>	STATE:
	g) <b>Value of the contract in current Rand value.</b>	STATE:
3.1.3.3	The bidder must clearly indicate against each previous contract with a client whether the equipment offered is exactly similar to the equipment called for in this specification or whether the equipment offered differs from the equipment called for and the extent of the difference.	STATE:
3.1.4	<b>Configuration Of Bid Reply</b>	
3.1.4.1	Offers submitted by a bidder must be neatly bound in a file folder, complete with an index page to enable the SAPS to ensure that all information was received.	STATE:
3.1.4.2	Offers submitted must include at least the following:	
3.1.4.2.1	The completed technical specification with the accompanying State Tender Board documents.	STATE:
3.1.4.2.2	Appendixes "A" and "B" completed by the bidder.	STATE:
3.1.4.1.3	Appendix "A" Part "1" and Appendix "A" Part "2" Must also be submitted in soft copy in Microsoft Excel format in a version compatible with SAPS computer equipment	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.4.1.4	Detailed technical specifications of the all components offered.	STATE:
3.1.4.1.5	All additions to the bid document i.e. Price list, Brochures etc. must be neatly bound in the file folder and these additions must be indicated on the index page as Appendices. Each additional document and/or list must be listed separately in the index. Any loose pages or brochures submitted, not bound as stated above will not be accepted by the SAPS.	STATE:
3.1.4.1.6	One (1) set of documentation detailed technical maintenance documentation for the product offered including a component parts list that will clearly cross reference with the components offered under this components supply bid.	STATE:
<b>3.1.5</b>	<b>Assumptions Made By Bidders</b>	
3.1.5.1	No assumptions must be made by bidders in their bid reply.	STATE:
3.1.5.2	It must be the bidder's responsibility to obtain all information required to submit a comprehensive bid that makes provision for all requirements. In the event of any uncertainties regarding the interpretation of the requirements or specifications, the bidder must clarify such uncertainties with the SAPS.	STATE:
<b>3.1.6</b>	<b>Scope Of Project</b>	
3.1.6.1	The scope of the project is as described in the introduction to the specification preceding the specification table. The bidder must comply with the requirements contained in the project introduction and all requirements in the specification must be interpreted such that the project purpose and functions are effectively implemented.	STATE:
3.1.6.2	Supply, delivery, installation, commissioning and warranty of CCTV and access control systems as detailed in this specification at Telkom Towers (North Tower), Erasmuskloof Building as well as at Division Supply Chain Management (SCM) facilities indicated in this specification.	STATE:
3.1.6.3	Maintenance and support of the supplied CCTV and access control systems for a period as specified in the specification after completion of the warranty period.	STATE:
3.1.6.4	The contract for supply must be limited to the premises identified in the bid.	STATE:



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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.6.5	Regarding each installation procured in the contract scope, a support contract for the maintenance and support will be awarded at the same time, to be implemented from the first day following the last day of warranty of the system.	STATE:
3.1.6.6	Each system procured will be accepted on completion of a systems acceptance test procedure, as detailed in the specification.	STATE:
3.1.6.7	In each system, the successful bidder must maintain the system for the full warranty period, under warranty, at no additional cost to the state. At the end of the warranty period, the system must again be subjected to the acceptance test procedure to confirm that the system is complete and functioning according to specification before the maintenance and support period will commence.	STATE:
3.1.6.8	During the maintenance and support period, the system must be subjected to acceptance test procedure at least twice a year, to confirm that the system is maintained to full functionality as contracted.	STATE:
3.1.6.9	The maintenance and support contract period must commence on the day that the warranty period expires, subject to the system being fully compliant with the acceptance test procedure applicable to the specific system.	STATE:
3.1.6.10	The bidder must be responsible to execute the acceptance test procedure under supervision of a SAPS official appointed by SAPS to verify compliance of the system.	STATE:
3.1.6.10	Any defect detected during the final ATP must be repaired under warranty by the bidder before the maintenance and support contract must commence.	STATE:
3.1.7	<b>General Technical Requirements</b>	
3.1.7.1	Environmental requirements: An Ingress Protection rating of at least IP 65 as defined by the International Electro technical Commission (IEC) is required for all outdoor systems.	STATE:
3.1.7.2	The <i>Successful Bidder</i> must adhere to any standards prescribed by a land / property / infrastructure owner where SAPS installations are done on such land / property / infrastructure, including telecommunications underground sleeves, building cabling, overhead cabling or similar infrastructure. Where standard practices are imposed on the SAPS by property owners in this project. Any resulting additional cost implications will be for the account of SAPS based on prior approval by SAPS and an "Open Book" accounting principles. For all projects included in this requirement, bidders must	STATE:

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DESCRIPTION	COMPLY / DO NOT COMPLY
determine such costs and include such cost in the bid price. The costs must be broken down in detail and be fully visible in the bid submission.	
3.1.7.4 It must be the <i>Bidder's</i> responsibility to obtain all information required to submit a comprehensive <i>Bid</i> that meets all requirements. If any uncertainties exist regarding the interpretation of the requirements or specifications, the <i>Bidder</i> must clarify such uncertainties with the SAPS.	STATE:
3.1.7.5 The equipment and workmanship offered must conform to sound engineering practice including compliance with all legally required electrical and other safety standards and all standards for communications products and systems in terms of the Electronic Communications Act no 36 of 2005 and regulations for type approval and licensing requirements set by the <i>Independent Communications Authority South Africa (ICASA)</i> .	STATE:
3.1.7.6 The bidder must provide competency certification for all workers employed in electrical installation as well as any required electrical certificates of compliance regarding supplied electrical installations.	STATE:
3.1.7.7 The SAPS reserves the right to test the equipment and installation offered to the above or equivalent specifications and to reject any equipment that does not satisfy the requirements of the SAPS as detailed in this specification.	STATE:
3.1.7.8 The Successful Bidder must follow sound engineering practice throughout all installations and design and thus must fully adhere to at least the following general technical standards or such other standards as would be appropriate for any technical work done: all standards applied must be subject to SAPS approval.	STATE:
3.1.7.9 Environmental requirements: Ingress Protection IP 65 must be complied with for all outdoor systems.	STATE:
3.1.7.10 SANS Series of specifications for general CCTV installation practice (SANS 10222-5-1-1, SANS 10222-5-1-3, SANS 10222-5-1-4 and SANS 10222-5-1-5 and SANS 10222-5-1-2)	STATE:
3.1.7.11 Any standards prescribed by a land/property/infrastructure owner where SAPS installations are done on such land/property/infrastructure, including telecommunications underground sleeving, building cabling and overhead cabling. Where standard practices are imposed on the SAPS by property owners in this project.	STATE:
3.1.7.12 The Successful Bidder must accept full responsibility for any damages done to property in the course of his/her work in terms of this contract.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.7.13	The Successful Bidder must acquaint himself with all relevant policy, standards and regulations imposed by land/property/infrastructure owners such as the local authority (electrical department, water), Telkom, ESKOM etc.	STATE:
3.1.7.14	The bidder must acquaint him/herself with the content of the attached Annexure "X" Extract from the SAPS cabling standards relating to IT cabling and must comply in all installations with the technical requirements contained.	STATE:
3.1.7.15	The bidder must install all IT type cabling in these installations in accordance with the attached technical standards and must not duplicate cabling infrastructure where adequate capacity/space is available on the existing SAPS cabling infrastructure.	STATE:
<b>3.1.8</b>	<b>Cabling practice and standards for signal and data cabling:</b>	
3.1.8.1	In each case of cabling to be installed, the cable must be selected to be of the optimum type and specification for the purpose, with due consideration of signal requirements, shielding requirements, environmental requirements, and appropriate practice for cabling of the respective kind.	STATE:
3.1.8.2	All cables used must be installed with strict adherence to cable manufacturer installation instructions.	STATE:
3.1.8.3	All cables used in the installations, that will be exposed to outdoor conditions, must be selected to be resistant to ultra violet and all other damaging solar radiation, to the range of temperatures imposed by the installation circumstances, to wind induced vibration, environmental chemical exposure, moisture and must be installed on appropriate cable support structures such as cable ducts, cable trays and catenary cables.	STATE:
3.1.8.4	All cabling installed surface mount in buildings must be installed in plastic electrical conduit with no cables exposed to mechanical damages. In cases of expected vandalism, cable must be installed in steel conduit or alternatively cables will be routed in areas protected from vandalism exposure.	STATE:
3.1.8.5	Where high numbers of video feeds need to be carried on co-axial cables in confined space inside the control centre over short runs, these feeds must be carried on cable of approximately 3 mm diameter with the appropriate impedance, typically 75 Ohm for analogue video.	STATE:
3.1.8.6	All signal cable feeds must be engineered to ensure that losses incurred are within the limits that will allow high system reliability and unimpeded	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
	performance. This includes optic fibre line losses to be within the design loss limit prescribed by the transmission equipment manufacturer.	
3.1.8.7	All cables in the system must be clearly labelled at least at both ends as well as at all splices, with a cable identifier number. This cable identifier number must indicate the source and load devices and must be recorded in a system design drawing that will indicate all pin to pin wiring in the system. This cable label must be a permanent label. Labels must be transparent heat shrink protected.	STATE:
3.1.8.8	All labelling must be printed on permanent ink PVC labels. All printed labels must be black on white with a font size of at least 8mm except for the wall outlets where the font size must be 6mm.	STATE:
3.1.8.9	Labelling must be done as follows:	
3.1.8.9.1	Patch / NVR Display or other panels: A, B, C etc. from the top to bottom of the cabinet / NVR or other CCTV equipment. The label will be on the left side of the Patch / NVR Display or other panel.	STATE:
3.1.8.9.2	Wall Box or other Outlet: GABnn where: G – Indicates the floor on which the cabinet / equipment is situated. A – Indicates the cabinet / display unit number. B – Indicates the patch / NVR display panel Number. nn – Indicates the port number on the patch / NVR display panel.	STATE:
3.1.8.9.3	The cable will be labelled with the same number at the back of the Patch Panel and at the back of the wall outlet not more than 50mm from the termination point/end by means of an SAPS approved method. Oval grip labels will be accepted.	STATE:
3.1.9	<b>Installation specification</b>	
3.1.9.1	The System must be installed in accordance with the latest versions of the following, as and when applicable:	STATE:
3.1.9.2	BS EN 50173: Generic Cabling Systems.	STATE:
3.1.9.3	ANSI/TIA/EIA-568-A Building Cabling Systems.	STATE:
3.1.9.4	TIA/EIA-TSB67 Testing of Structured Cabling Systems Designed to ANSI/TIA/EIA-568-A	STATE:
3.1.9.5	ISO/IEC 11801 Premises Cabling Systems.	STATE:



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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.9.6	EN 50174: Installation of Generic Cabling Systems (When Approved).	STATE:
3.1.9.7	BS 7718 Code of Practice for the Installation of Fibre Optic Cabling.	STATE:
3.1.9.8	BS 6701 Code of Practice for Installation of Apparatus intended for connection to certain telecommunication systems.	STATE:
3.1.9.9	Telecommunications Industry Association Code of Practice for the Installation of Telecommunications Cable Distribution Systems.	STATE:
3.1.9.10	OFTEL General Approvals (GA). (E.g. NS/G/1235/W/100025 [GA25]).	STATE:
3.1.9.11	IEE Wiring Regulations (BS 7671).	STATE:
3.1.9.12	Manufacturer's installation and testing documentation.	STATE:
3.1.10	<b>Indemnification</b>	
3.1.10.1	Neither the SAPS nor any accredited testing facility employed by the SAPS for testing of deliverables or samples in this bid, will be responsible for any costs resulting from damage done to the equipment offered during testing or evaluation according to this specification.	STATE:
3.1.11	<b>General Camera Requirements</b>	
3.1.11.1	Bidders must offer a comprehensive range of cameras, such that a wide range of operational requirements are provided for.	STATE:
3.1.11.2	Bidders must provide for outdoor as well as indoor environments, for cameras with interchangeable lenses as well as compact cameras with integrated lenses.	STATE:
3.1.11.3	In each camera installation, the operational requirement will be determined by the SAPS, and the bidder will be required to provide a camera of suitable quality to ensure successful operational performance.	STATE:
3.1.11.4	Selected priority areas covered by PTZ cameras must be covered by stationary cameras as backup to ensure that a minimum basic coverage of any incident occurring in the area must always be available.	STATE:
3.1.11.5	Pre-sets: PTZ cameras must have the capability to store pre-set positions and pre-set default patrols consisting of a series of pre-set positions and pan/tilt/zoom sequences.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.11.6	Camera specifications must allow use of cameras for Automatic Number plate Recognition systems. Where cameras cover roads, the image quality will be engineered to be adequate for the effective use of automatic number plate reading.	STATE:
3.1.11.7	At selected camera sites, a low light or no light capability is required to view incidents at night in all lighting conditions.	STATE:
3.1.11.8	Active infrared illumination systems are required where the infra-red light source is mounted with the camera on one mechanism, and where the IR light emitted is matched in radiation pattern to the viewing pattern of the IR camera. Illumination should be adequate to allow effective operation at a range suitable for the planned camera coverage area. Infrared lighting options from short range up to at least 500 meter range are required.	STATE:
3.1.11.9	IR Illumination must be within eye safe levels.	STATE:
3.1.11.10	The operator must be able to select day / night camera functions from the operator position in the CCTV control centre via standard camera control telemetry.	STATE:
3.1.11.11	The IR Illumination and IR Camera must be controlled independently.	STATE:
3.1.12	<b>Pan Tilt Heads (PTZ)</b>	
3.1.12.1	The camera housing must have a sun shield spaced above the housing to reduce camera temperature during daylight. The sun shield must extend over the front window to protect the camera from direct sunlight without obstructing the camera view. This is applicable to all out-door mounted cameras.	STATE:
3.1.12.2	The pan tilt head must be continuous rotation type with all camera connection cabling, video, focus and zoom control cables fed through the pan tilt head.	STATE:
3.1.12.3	The pan tilt head must have a pre-positioning accuracy of better than 0.02 degrees and must retain its pre-positioning accuracy over a period of at least five years of use at a duty cycle of at least 50%.	STATE:
3.1.12.4	The pan tilt camera assembly must be constructed such that the centre of gravity of the moving assembly must be within 30 mm from the rotational centre of the assembly. The camera must thus remain close to balance even when tilted close to 90 degrees up or down.	STATE:
3.1.12.5	The pan tilt head must have a payload rating of at least 10% higher than the maximum load installed on the head.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.12.6	The pan tilt head must use positional measurement of its mechanical output, and must thus provide pre and re-positioning of high accuracy independent of gear wear over a life expectancy of more than five years.	STATE:
3.1.12.7	The Bidder must quote for AC as well as DC powered versions or equivalents for each pan tilt head offered.	STATE:
3.1.13	<b>Telemetry system:- The telemetry system must make provision for control of the following:</b>	
3.1.13.1	Camera pan, tilt, zoom, focus and iris control as well as all image quality optimization settings provided for in the camera internal software.	STATE:
3.1.13.2	Pan and tilt must be variable speed control allowing precise and intuitive control, facilitating easy tracking of suspects or vehicles through a scene.	STATE:
3.1.13.3	Selection of a camera must be by means of a graphical interface that must display a map view of the area. Camera selection must occur by means of mouse cursor or touch screen activation, user friendly and ergonomically refined to optimise operator efficiency and minimise operator fatigue.	STATE:
3.1.13.4	Telemetry must also provide facilities to control PTZ camera window washing, wiping, heating, as well as IR Camera selection, IR Illumination	STATE:
3.1.13.5	The telemetry must use a non-Proprietary protocol allowing the Successful Bidder to offer cameras to SAPS with full functionality without Proprietary protocols inhibiting SAPS camera selection for the further support and upgrade of the system.	STATE:
3.1.14	<b>The Successful Bidder must be responsible for the following:</b>	
3.1.14.1	The detailed technical design of the entire system, to enable implementation of the required capabilities as detailed in this specification.	STATE:
3.1.14.2	Sourcing and delivering all required items to build a complete system or identified sub-systems.	STATE:
3.1.14.3	The complete systems integration of all required sub systems. All technical interfacing must comply with sound engineering practice.	STATE:
3.1.14.4	Pre installation testing of all sub systems. The Successful Bidder must provide a pre installation test certificate in respect of all equipment to be installed, prior to installation and system commissioning.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.14.5	All camera site systems must be prepared, configured and practically set up before installation, such that installation can be accomplished in a minimum time.	STATE:
3.1.14.6	Assist SAPS government property administration staff in the identification and codification process of all durable items to be taken onto government property account before an order is issued.	STATE:
3.1.14.7	The installation of all items supplied in compliance to this specification.	STATE:
3.1.14.8	All required configuration/programming/preparation of all items to be installed such as camera back focus and transmission system levels.	STATE:
3.1.14.9	The commissioning of the system to full functionality.	STATE:
3.1.14.10	Testing of the system in accordance with the acceptance test procedure (ATP) in order to demonstrate compliance to this specification before system acceptance by the SAPS.	STATE:
3.1.15	<b>Documentation: The Successful bidder must supply at least the following documentation:</b>	
3.1.15.1	Technical documentation in hard printed colour and softcopy format: The documentation must contain comprehensive detail including maintenance schedules and detailed procedures, training materials for the training of technicians and a system acceptance test procedure document.	STATE:
3.1.15.2	Compilation and development of an Acceptance Test Procedure (ATP) document detailing all required procedures to test the system to specification, including all required instrumentation and other test equipment.	STATE:
3.1.15.3	The ATP content must be subject to SAPS project management approval.	STATE:
3.1.15.4	This ATP must be adequately detailed to guide a suitably qualified technician in the full testing of the system for purposes of fault location and compliance certification.	STATE:
3.1.15.5	Operational Documentation: User training manuals and system management manuals to train operators and managers of the system. The documentation must include workbooks and facilitators guides.	STATE:



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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.16	<b>Technical Support Facilities</b>	
3.1.16.1	The Successful Bidder must have available skilled technical personnel to support all items / systems / solutions offered to the SAPS. CV's of skilled technical personnel must be included in the proposal.	STATE:
3.1.16.2	The Successful Bidder may use sub-contractors for this support, but must supply in Bid documents proof of the facility, and the available staff, and the contractual relationship between the bidder and any sub-contractors used to supply this service.	STATE:
3.1.16.3	The Successful Bidder must carry a stock of required maintenance spares and reserve equipment to ensure the availability of support for any failure without relying on support from abroad.	STATE:
3.1.17	<b>System warranty period:</b>	
3.1.17.1	The Successful Bidder must provide warranty services: The warranty of the entire system for a period of at least one year after date of systems acceptance (from date of sign-off) per site implemented.	STATE:
3.1.17.2	The Successful Bidder must be able to provide the services of a technician for the full warranty period.	STATE:
3.1.17.3	Maintenance must also be supplied in the following categories:	
3.1.17.3.1	Mission critical and Operational and Priority levels. Material costs will be determined by quotation and pre-approval by the SAPS-CIO, or authorised delegate, before execution of the order. The categories will be determined as part of the SLA negotiations after awarding of the Bid to the Successful Bidder Maintenance cost must apply only after completion of the warrantee period, or in the case of force majeure.	STATE:
3.1.17.4	<b>Mission Critical MTTR (Mean time to repair):</b>	
3.1.17.4.1	All faults/service requests on hardware and related peripherals to be repaired within 1 (one) hour from the time that the problem is logged on the official problem management tool within the boundaries of 100 km from the centre of the nodal. For every additional 100 km beyond the boundary of the nodal centre an additional hour will be added. This service must be available 24/7, public holidays included. The bidder must provide the services of the repair technician at a nodal point within one hour travel time from the system installation site.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.1.17.5	<b>Priority MTTR (Mean time to repair):</b>	
3.1.17.5.1	All faults/service requests on hardware and related peripherals to be repaired within 6 (six) hours from the time that the problem is logged on the official problem management tool within the boundaries of 100 km from the centre of the nodal. For every additional 100 km beyond the boundary of the nodal centre an additional hour will be added. This service must be available 24/7, public holidays included.	STATE:
3.1.17.6	<b>Operation MTTR (Mean time to repair):</b>	
3.1.17.6.1	All faults/service requests on hardware and related peripherals to be repaired within 6 (six) hours from the time that the problem is logged on the official problem management tool within the boundaries of 100 km from the centre of the nodal. For every additional 100 km beyond the boundary of the nodal centre an additional hour will be added. This service must be available during office hours (07:00 to 17:00, Monday to Friday).	STATE:
3.2	<b>GENERAL REQUIREMENTS</b>	
3.2.1	<b>General camera installation requirements:</b>	
3.2.1.1	All general camera installation requirements stated in this document must apply to all categories of cameras except in the case of clauses incompatible with the function of a specific camera.	STATE:
3.2.1.2	All installation items including mounting brackets, cable protection sheaths, poles, camera housings and all items exposed to the environment must be corrosion resistant, manufactured from corrosion resistant metals or where manufactured from steel, the items must be hot dip galvanized to appropriate SANS specification.	STATE:
3.2.1.3	Camera support structures supplied must be highly ridged and must allow less than 2% of image width camera movement in high wind speeds at maximum focal length. The camera as installed must withstand winds of up to 100 Km/h and must perform with vibration and camera sway of less than 0,3 degrees at 50 Km/h wind speed.	STATE:
3.2.1.4	All electronic components at outdoor camera sites must be protected from the elements with a housing that complies with IP 65 (at least) as defined by the International Electro-technical Commission (IEC). This housing must also be locked and rugged to protect equipment from tampering. The housing may form part of the camera pole.	STATE:

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DESCRIPTION	COMPLY / DO NOT COMPLY
3.2.1.5 All cables at camera sites must be protected from tampering by being installed inside steel cable conduit or flexible metal cable sheath. Where cameras are mounted on camera poles, the cables must be routed inside the camera pole.	STATE:
3.2.1.6 It must be possible to remove the telemetry and transmission electronics from the equipment shelter by unplugging the telemetry and transmission systems without de-soldering of connections.	STATE:
3.2.1.7 In the event of telemetry or transmission failure it must be possible to replace the faulty sub system by unplugging the faulty parts, and installing replacement within 10 minutes.	STATE:
3.2.1.8 Cameras must be mounted with rapid release mechanisms, allowing easy fast maintenance, including anti-theft devices.	STATE:
3.2.1.9 Mounting brackets must be heavy duty galvanised steel or stainless steel. Samples must be submitted for approval by SAPS prior to installation on site. Therefore said mounting brackets must be durable and address rust problems. The brackets must be rigid and mounted securely to ensure safety, to prevent it from breaking and falling. The safety of cars and pedestrians must be ensured.	STATE:
3.2.1.10 Camera mountings must be adjustable to be able to be rotated 360 degrees around the camera pole in all cases where the camera is not mounted at the highest point and where the camera pole will obstruct the view partially.	STATE:
3.2.1.11 The camera must be spaced at an adequate distance from the pole to ensure that the obstructed view is minimised to below 25 degrees horizontal viewing angle.	STATE:
3.2.1.12 Cameras and all associated electronics must operate to specification in a temperature range of -20 (minus) to 60 (plus) degrees Celsius.	STATE:
3.2.1.13 All camera sites not connected to emergency supply must be powered from the local municipal nominal 230 Volt AC supply, with battery back-up or uninterruptible power supply back-up. Backup power supply of at least 1/2 hour. A 4 Hour backup power capability must be quoted as an option to be available for cases where regular power failure impact on camera availability during the contract period.	STATE:
3.2.1.14 The Successful Bidder must evaluate power supply quality in the area and must install power supply systems capable of operating in areas where power grid is overloaded and supply voltages varies outside normal specification.	STATE:

**SPECIFICATION FOR THE SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING, TRAINING AND WARRANTY OF CLOSED-CIRCUIT TELEVISION AND ACCESS CONTROL SYSTEMS FOR DIVISION CRIME INTELLIGENCE, DIVISION SUPPLY CHAIN MANAGEMENT AND TELKOM TOWERS - NORTH TOWER WITH MAINTENANCE AND SUPPORT: SOUTH AFRICAN POLICE SERVICE**

DESCRIPTION	COMPLY / DO NOT COMPLY
3.2.1.15 The camera and all associated electronics must be protected from over voltage transients. Technical description and comprehensive documentation that defines the transient protection devices and method of implementation of transient protection must be included in the Bid response documentation.	STATE:
3.2.1.16 All camera sites connected to the mains power grid must be isolated from the grid with a transformer. The transformer may be a separate isolation transformer or part of a power supply unit. Lightning protection must be designed to utilise the isolation capacity of the transformer to best effect.	STATE:
3.2.1.17 Lightning protection must also be installed before the input to the transformer such that incoming lightning surges are prevented from exceeding the arc over voltage of the transformer.	STATE:
3.2.1.18 The Bidder must quote for optional solar power supply system consisting of solar panels, solar regulators and deep cycle batteries as well as all required installation items, including tamper resistant battery shelters, solar panel mounting frames, cabling and equipment housings required to be able to power systems in the complete absence of municipal power feed.	STATE:
3.2.1.19 Pan tilt and zoom capability must be variable speed with refined reliable control.	STATE:
3.2.1.20 Refined reliable and responsive camera control over pan, tilt, and focus is required.	STATE:
3.2.1.21 A camera must be able to pan or tilt smoothly with a speed adequately low to cause less than ½ image width panning per second with the camera at maximum zoom. Camera pan and tilt must be variable speed with a linear speed control relative to controller activation.	STATE:
3.2.1.22 The control loop latency must be less than 200 milliseconds. The latency must be the time between mechanically activating pan in the control centre until panning of the image on the control centre display begins. When a camera is panning in one direction, and the control centre control is reversed, the display must reverse direction within 200 milliseconds.	STATE:
3.2.1.23 Cameras must be resistant to condensation inside the camera housing by being either sealed against moisture or by being equipped with heating and blowing facilities.	STATE:
3.2.1.24 Light intensities in illuminated areas at night are generally at a level of 0.1 Lux and below. Cameras are required to operate effectively at this low light level. The sensitivity of cameras will be critically evaluated and where camera performance is found to be inadequate in the opinion of the SAPS such offer will be rejected. The measurement of camera performance as well as	STATE:



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DESCRIPTION		COMPLY / DO NOT COMPLY
	practical evaluation in the field will be used to evaluate this requirement. A signal to noise ratio of at least 55 dB under these conditions is required. The sensitivity of cameras will be evaluated in combination with signal to noise ratio requirements.	
3.2.1.25	Cameras must have well developed image quality enhancement capability including wide dynamic range, back light compensation and must be equipped with internal digital signal processing for image quality optimization.	STATE:
3.2.1.26	Camera and mechanical devices (PTZ) reliability must exceed a mean time between failures (MTBF) of 10000 hours. Please state in response the MTBF figure offered.	STATE:
3.2.1.27	PTZ and Dome Cameras must have privacy zone protection capability under password control.	STATE:
3.2.1.28	The cameras must have more than 30 privacy zone ability with a flexible privacy zone shape and size wherever SAPS cameras view private residences.	STATE:
3.2.1.29	Maintenance and repair components for all cameras offered must be available from the <i>Successful Bidder</i> for a minimum of ten years after date of delivery. A complete spares inventory with current spares prices and recommended spares list anticipated to be fast moving items must be included in <i>Bid</i> documents as optional RFB items.	STATE:
3.2.2	<b>Telemetry for camera control:</b>	
3.2.2.1	Camera control telemetry must be an open protocol supported by multiple control systems manufacturers.	STATE:
3.2.2.2	The telemetry systems must make provision for control of the cameras, pan, tilt, zoom and focus facilities as required in the Camera Equipment section as well as the ability to switch to additional low light cameras and active infrared illumination at sites where such facilities are required.	STATE:
3.2.3	<b>Optic Fibre Network Requirements:</b>	
3.2.3.1	<b>The optic fibre transmission system selected must make provision for at least the following capabilities:</b>	
3.2.3.1.1	Transmission of a single video signal (analogue or digital) on one fibre with data on the same fibre or on one additional fibre to make provision for single camera sites.	STATE:

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DESCRIPTION		COMPLY / DO NOT COMPLY
3.2.3.1.2	Multiplexing of two to four video signals (analogue or digital) and control data for multiple camera sites on a single fibre or single fibre pair.	STATE:
3.2.3.1.3	Multiplexing up to 16 (or more) video feeds (analogue or digital) on to one fibre, at full quality.	STATE:
3.2.3.1.4	Transmission of digital video in IP format on fibre for connection of Internet Protocol based cameras from camera sites to the control centre. Such transmission hardware is only required where such cameras are indicated in specific camera sites.	STATE:
3.2.3.1.5	At least H264, Mpeg 2 and Motion Jpeg carrying capacity broad band for high definition television options must be available. This capability must be demonstrated within the system offered.	STATE:
3.2.3.1.6	The combination of transmission equipment, fibre optic network design and practical implementation must deliver a system with a fade margin in each link to cater for ageing degradation and additional losses that may over time be incurred in repair as well as dynamic attenuation as a result of cable movement. In this regard the optic fibre network will be designed for a life expectancy of over 10 years.	STATE:
3.2.3.1.7	The path loss of each link must be measured before installation with an Optical time-domain reflectometer (OTDR) and checked against design levels with fade margin verified.	STATE:
3.2.3.1.8	Transmission equipment must have automatic gain control and must not require regular manual adjustment. The equipment selected must function to specification in all links in the network without requiring link specific manual adjustment.	STATE:
3.2.3.1.9	The offered equipment must have a proven track-record with proven references.	STATE:
3.2.3.1.10	The transmission of video and data to and from specific camera sites may be done with transmission electronics designed for single camera deployment per site, but multiple cameras per site options must be available. The Bidder must quote for such options in locations where more than one camera per site is required.	STATE:
3.2.3.1.11	The network must be able to operate to specification on single mode fibre cable up to a distance of at least 50 Km.	STATE: