



PINELANDS CID CCTV SYSTEM

NVR AND CONTROL ROOM INSTALLATION

PROJECT NUMBER: PLCID01_26

Request for Quotation Document

Issued by:

Pinelands CID

Prepared by:

Transport Telematics Africa (Pty)
Ltd

Issue Date	29 April 2026
Due Date and Time	14 May 2026
Tenderer Name:	
Primary Contact Person:	
Contact Number:	
Email Address:	

PARTIES

Pinelands CID: Pinelands CID the contracting authority and client for whom the Works are to be executed, represented by Yazied Davids.

Engineer: Transport Telematics Africa (Pty) Ltd, represented by Johan Badenhorst.

Tenderer / Contractor: The entity or individual who submits a tender in response to this Request for Quotation (RFQ) and whose tender is accepted by Pinelands CID.

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PINELANDS CID CCTV SYSTEM: NVR AND CONTROL ROOM INSTALLATION

PART T1: TENDER DATA

TENDER NOTICE AND INVITATION

Pinelands CID invites contractors to submit a tender for a CCTV NVR and Control room installation.

All queries and submissions must be directed to Pinelands CID at bids@pinelandscid.co.za. Only electronic submissions will be accepted.

Tenders must be valid for 30 days.

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PART T1: TENDER DATA

The rules and procedures below apply from the time contractors are invited to the completion of the project:

1 GENERAL

1.0 ACTIONS

1.0.1 The tenderer must declare any conflict of interest.

1.0.2 Pinelands CID shall not seek and a contractor shall not submit a tender without having a firm intention and the capacity to proceed with the work.

1.1 EVALUATION

1.1.1 Minimum score for functionality

The criteria above will be rated according to the following guidelines:

1.1.1.1 The track record criteria will be scored according to the information supplied by the tenderer in returnable **Schedule 2**. The tenderer shall supply as much information as deemed necessary to allow the evaluation of this criterion including contactable references to confirm information. The following point allocation will be used to score each tenderer.

ITEM	CRITERIA	POINTS MAX (20)
1	Five or more successfully completed Hikvision CCTV contracts	20
2	3 to 4 successfully completed Hikvision CCTV contracts	10
3	1 to 2 successfully completed Hikvision CCTV contracts	5

The table indicates the maximum number of points that can be awarded in each instance.

1.1.1.2 The tenderer partner status will be scored according to the information supplied by the tenderer. The tenderer shall supply proof of Hikvision partner status as part of his submission. The following point allocation will be used to score each tenderer.

ITEM	CRITERIA	POINTS MAX (5)
1	Tenderer is registered Hikvision partner	5
2	Tenderer is not registered Hikvision partner	0

1.1.1.3 Project team organogram and staff qualifications

The tenderer shall submit an organogram of the proposed project team including CV's, PSIRA registration and copies of relevant qualifications of each of the members. The project leader should preferably have more than 5 years' experience in managing similar projects.

The following point allocation will be used to score each tenderer.

ITEM	CRITERIA	POINTS MAX (15)
1	Organogram submitted	5
2	CV's and qualifications of attending staff submitted	5
3	Project leader has more than 5 years' experience in managing similar projects	5

The table indicates the maximum number of points that can be awarded in each instance.

1.1.1.4 Functionality scoring

Functionality scoring will be evaluated according to the below table. A **minimum of 30 out of 40 points** must be achieved to proceed to the financial evaluation portion.

ITEM	DESCRIPTION	POINTS (MAX)
1	The ability and proven track record of the tenderer to successfully complete similar Hikvision CCTV systems	20
2	Hikvision partner status	5
3	Organogram and staff qualifications	15
4	Total	40

1.1.2 Tender scoring

Submissions will be evaluated on the following criteria:

ITEM	DESCRIPTION	POINTS
1	Functionality scoring	40
2	Price	60
3	Total	100

A **minimum score of 70 out of 100** must be achieved for the tender to be eligible for award.

1.1.2.1 The price criteria shall be scored as follows:

$$P_s = 60 \times \left(1 - \frac{(P_t - P_{min})}{P_{min}}\right)$$

Where:

P_s = the number of points scored for price;

Pt = the price of the tender(ex. VAT) under consideration;
Pmin = the price of the lowest tender.

- 1.1.3** Pinelands CID reserves the right to accept any, none, or part of any of the received tenders.

2 TENDERER'S OBLIGATIONS

The tenderer shall:

2.0 NOTICES

Notify Pinelands CID of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by Pinelands CID as the basis in a prior process to invite the tenderer to submit a tender offer and obtain Pinelands CID's written approval to do so prior to the closing time for tenders.

Accept that a tender submission that has been submitted to Pinelands CID may only be withdrawn or substituted by giving Pinelands CID written notice before the closing time for tenders that a tender is to be withdrawn or substituted.

2.1 COST OF TENDERING

Accept that, unless otherwise stated in the tender data, Pinelands CID will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

2.2 CONFIDENTIALITY AND COPYRIGHT OF DOCUMENTS

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by Pinelands CID only for the purpose of preparing and submitting a tender offer in response to the invitation.

2.3 REFERENCE DOCUMENTS

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

2.4 ACKNOWLEDGE ADDENDA

Acknowledge receipt of addenda to the tender documents, which Pinelands CID may issue, and if necessary apply for an extension to the closing date and time stated in the tender data, in order to take the addenda into account. No queries will be accepted during the five working days prior to the closing date.

2.5 SEEK CLARIFICATION

Request clarification of the tender documents, if necessary, by notifying Pinelands CID at least five working days before the closing time stated in the tender data.

2.6 PRICING OF THE TENDER

- 2.6.1** Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT)), and other levies payable by the successful tenderer that are applicable 14 days before the closing date and time stated in the tender data.
- 2.6.2** Prices are fixed and firm. Claims for rate of exchange or escalation will not be entertained. Rates are not subject to adjustment except as provided for in the conditions of contract identified in the contract data. Pricing qualified to not be firm or fixed may lead to disqualification.
- 2.6.3** Show VAT payable by Pinelands CID separately as an addition to the tendered total of the prices.
- 2.6.4** State the rates and prices in South African Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.
- 2.6.5 Pricing negotiations after tender submissions are allowed if requested by Pinelands CID.**

2.7 ALTERATIONS TO DOCUMENTS

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by Pinelands CID, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

2.8 ALTERNATIVE TENDER OFFERS

Alternative offers may be submitted.

2.9 SUBMITTING A TENDER OFFER

Submit one electronic copy of the tender offer to bids@pinelandscid.co.za. Only electronic submissions will be accepted. No hard copy submissions will be considered.

2.10 INFORMATION AND DATA TO BE COMPLETED IN ALL RESPECTS

Accept that tender offers, which do not provide all the data or information requested completely and submitted in the form required, may be regarded by Pinelands CID as non-responsive.

2.11 TENDER OFFER VALIDITY

Tender offers must be valid for 30 (thirty) days from the closing date of tender submission.

3 PINELANDS CID'S UNDERTAKINGS

Pinelands CID shall:

3.1 RESPOND TO REQUESTS FROM THE TENDERER

Unless otherwise stated in the tender Data, respond to a request for clarification received up to five working days before the tender closing time stated in the Tender Data and notify all invited tenderers.

3.2 ISSUE ADDENDA

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until four days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Pinelands CID may grant such extension and, shall then notify all invited tenderers.

3.3 NON-DISCLOSURE

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

3.4 GROUNDS FOR REJECTION AND DISQUALIFICATION

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

3.5 ARITHMETICAL ERRORS, OMISSIONS AND DISCREPANCIES

Check the tender offers for:

- a) The gross misplacement of the decimal point in any unit rate;
- b) Omissions made in completing the pricing schedule or bills of quantities; or
- c) Arithmetic errors in:
 - i) Line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
 - ii) The summation of the prices.

Pinelands CID may correct the arithmetical errors in the following manner:

- d) Where there is a discrepancy between the amounts in words and amounts in figures, the amount in words shall govern.
- e) If bills of quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- f) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices. Line items that are not priced will be assumed to have a value of zero.

Consider the rejection of a tender offer if the tenderer does not correct or accept the correction of the arithmetical error in the manner described above.

3.6 ACCEPTANCE OF TENDER OFFER

Issue a letter of appointment, Purchase Order or signed form of offer and acceptance as acceptance of the tender to the successful tenderer.

3.7 NOTICE TO UNSUCCESSFUL TENDERERS

After the successful tenderer has been notified of Pinelands CID's acceptance of the tender, notify other tenderers that their tender offers have not been accepted.

3.8 PROVIDE WRITTEN REASONS FOR ACTIONS TAKEN

Provide upon request written reasons to tenderers for any action that is taken in applying these conditions of tender, but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

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PART T2: RETURNABLE SCHEDULES

Forms to be completed:

1. Basic information
2. Previous experience
3. Data sheet of tendered equipment

Forms to be submitted:

4. Tax clearance certificate
5. Authority of Signatory
6. Manufacturer Certifications
7. Workman's Compensation Letter of Good Standing
8. Organogram and CV's of project team members
9. PSIRA Letter of Good Standing

SCHEDULE 1: BASIC INFORMATION

Name of Enterprise: _____

Trading As: _____

Contractor's name: _____

Registered address of the enterprise: _____

Contact Persons name: _____

Email contact address: _____

Telephone contact number: _____

Enterprise VAT registration number: _____

Bank: _____

Branch code: _____

Account number: _____

SCHEDULE 3: DATA SHEET OF TENDERED EQUIPMENT

The following must be completed fully and submitted as part of the Tender offer:

ITEM	DESCRIPTION	
A1	NETWORK VIDEO RECORDER (NVR)	
A1.1	Manufacturer	
A1.2	Model number	
A1.3	Storage capacity installed	
A2	WORKSTATION PC	
A2.1	Manufacturer	
A2.2	Model number	
A3	WORKSTATION DISPLAY MONITOR	
A3.1	Manufacturer	
A3.2	Model number	
A3.3	Resolution	
A4	OVERVIEW DISPLAY MONITOR	
A4.1	Manufacturer	
A4.2	Model number	
A4.3	Resolution	
	<u>Full product data sheets and descriptions must be included with the tender document</u>	

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PART C1: CONTRACT DATA

C1.1 : FORM OF OFFER AND ACCEPTANCE

1. OFFER

Pinelands CID, identified in the acceptance signature below, has solicited offers to enter into a contract for the procurement of

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The tenderer, identified in the offer signature below, has examined the documents listed in the tender data and addenda thereto as listed in the tender schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the Contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount as stated below.

The offered total of the prices inclusive of Value-Added Tax is

.....
.....

.....Rand (in words); R.....(in figures)

This offer may be accepted by Pinelands CID by issuing a purchase order or letter of appointment to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in terms of the conditions of contract identified in the contract data.

For the **Tenderer**

.....
(Name and address of organization)

Signature(s).....

Name(s).....

Capacity

Witness

Name and signature.....

Date

2. ACCEPTANCE

By signing this part of this form of offer and acceptance, Pinelands CID identified below accepts the tenderer's offer. In consideration thereof, Pinelands CID shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the tenderer's offer shall form an agreement between Pinelands CID and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract are contained in

Part C1: Agreements and contract data (which includes this agreement)

Part C2: Pricing Data

Part C3: Scope of Work and Specifications

and documents or parts thereof, which may be incorporated by reference into Parts C1 to C3 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto, as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and Pinelands CID during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall, within two weeks after receiving a completed copy of this agreement or order including the schedule of deviations (if any), contact Pinelands CID's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of the obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor), within five (5) working days of the date of such receipt, notifies Pinelands CID in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

for the Pinelands CID

.....

..... (Name and address of organization)

Signature

Name

Capacity

Witness

Name and signature

Date

3. SCHEDULE OF DEVIATIONS

Notes:

- 3.1 The extent of deviations from the tender documents issued by Pinelands CID before the tender closing date is limited to those permitted in terms of the conditions of tender.
- 3.2 A tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid, be the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.
- 3.3 Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents, and which it is agreed by the Parties becomes an obligation of the contract, shall also be recorded here.
- 3.4 Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of the contract.

FOR THE PINELANDS CID TO COMPLETE ON ACCEPTANCE OF THE OFFER:

- a) Subject
- Details
- b) Subject
- Details

By the duly authorized representatives signing this schedule of deviations, Pinelands CID and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and Pinelands CID during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

Pinelands CID Contractor

.....
Name Name

.....
Signature Signature

.....
Date Date

C1.2: CONTRACT DATA

The following terms and conditions will form part of this agreement.

1 **DEFINITIONS:**

In this Agreement, unless inconsistent with the context:

“Agreement”

means the Form of Offer and Acceptance, these Contract Data, the Scope of Work, Pricing Data, Schedules, and all annexures, addenda and amendments.

“Business Day”

means any day other than a Saturday, Sunday or official public holiday in the Republic of South Africa.

“Business Hours”

means the hours between 08h00 and 17h00 on any Business Day.

“Commencement Date”

means the date stated in the Letter of Appointment or Purchase Order.

“Contract Sum”

means the accepted amount stated in the Form of Offer and Acceptance.

“Contractor” or “Tenderer”

means the entity or individual who submits a tender in response to this Request for Quotation (RFQ) and whose tender is accepted by the Pinelands CID, and who thereby becomes the Contractor responsible for executing and completing the Works in accordance with the Contract.

“Pinelands CID”

means the contracting authority and client for whom the Works are to be executed, including its authorised representatives and successors in title.

“Engineer”

means Transport Telematics Africa (Pty) Ltd, represented by Johan Badenhorst, appointed by Pinelands CID to prepare the document.

“Goods”

means all equipment, materials or items to be supplied under this Agreement.

“Order”

means any written instruction, purchase order or letter of appointment issued by the Pinelands CID.

“Services”

means all work to be performed by the Contractor in terms of this Agreement.

“Subcontractor”

means any person or entity engaged by the Contractor to execute part of the Works, subject to approval where required.

“Supplier”

means any party supplying Goods or Services to the Contractor for incorporation into the Works.

“Works”

means the total scope of work described in Part C3: Scope of Work and Specifications.

2 APPENDIX TO TENDER: CONTRACT DATA COMPLETED BY PINELANDS CID:

Item	Entry
Pinelands CID name and address	Pinelands CID, 28B Greenzone, Mutualpark, Jan Smuts Drive, Pinelands, 7405
Representative	Yazied Davids
Commencement Date	On receipt of Purchase order, or letter of appointment
Time for Completion of the Works	Maximum 15 Working days
Period for submission of Programme	One week after commencement date
Defects Liability Period	12 Months
Form of communication	e-mail
Governing Law	Republic of South Africa
Ruling language	English
Language for communications	English
Amount of Performance Security	N/A
Normal working hours	08:00 till 17:00
Delay penalties for the Works	R1 000 (ex VAT) per calendar day
Maximum amount of Delay penalties	No limit
Adjustments for Changes in Cost	None applicable - Fixed priced contract
Total advance payment	Up to 70% Deposit
Percentage of retention	20% upon the issue of a Certificate of Practical Completion.
Limit of Retention Money	10% of contract sum
Retention Period	3 (three) months
Plant and Materials for payment when shipped en route to the Site	None
Currency/currencies of payment	South African Rand, as named in Offer
Payment Cycle	Within 30 days from receipt of certified claim
Periods for submission of insurance:	

Item	Entry
(a) evidence of insurance	5 days from commencement
(b) relevant policies	5 days from commencement
Maximum amount of deductibles for insurance of the Pinelands CID 's risks	Not applicable
Minimum amount of third-party insurance	R3 000 000,00

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PART C2:

PRICING INSTRUCTIONS AND SCHEDULE

PART C2 : PRICING DATA

1. This Bill of Quantities forms part of, and must be read in conjunction with the specification.
2. No alteration, erasure or addition is to be made in the text of the Bill of Quantities. Should any alteration, erasure or addition be made it will not be recognized but the original working of the Bill of Quantities will be adhered to.
3. Pinelands CID will check the complete Bill of Quantities and reserves the right to adjust any individual price and to rectify any discrepancy whilst **the total tender price as quoted remains unaltered**.
4. The unit prices tendered in the Bill of Quantities must include for such small installation materials as are required for the complete installation in accordance with the specification.
5. The unit prices tendered must include all travelling costs associated.
6. Should the Bill of Quantities be made available in electronic Excel format, the Tenderer will be responsible to ensure the correctness of all formulas. Pinelands CID will accept no responsibility for any incorrect tender pricing as a result of wrong formulas in the Excel document.
7. Prices are fixed and firm. Claims for rate of exchange or escalation will not be entertained. Pricing qualified to not be firm or fixed may lead to disqualification.
8. The successful tenderer is required to perform all tasks listed against each item. The tenderer must therefore tender prices/rates on all items as per the section in the Price Schedule. **An item against which no rate (or rates, in the case of rate categories if provided) is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be evaluated as a nil rate having been entered against that item, i.e. that there is no charge for that item.**

PINELANDS CID CCTV - NVR AND CONTROL ROOM INSTALLATION - SCHEDULE OF QUANTITIES

SECTION A: PRELIMINARY AND GENERAL

Item	Description	Unit	Tendered rates		
			Qty	Rate R-c	Total R-c
1	<u>PRELIMINARY AND GENERAL</u>				
1.1	12 Month Guarantee & Maintenance Allowance	Sum	1		
1.2	Quality Assurance Procedures	Sum	1		
1.3	Project Management	Sum	1		
1.4	OHS compliance	Sum	1		
2	TOTAL CARRIED FORWARD TO SUMMARY				

SECTION B: NVR INSTALLATION

Item	Description	Unit	Tendered rates		
			Qty	Rate R-c	Total R-c
1	<u>Hikvision NVR</u>				
1.1	Hikvision DS-9632NI-M8 incl 8x 10TB surveillance HDD				
1.1.1	Supply	No.	7		
1.1.2	Install	No.	7		
1.2	NVR configuration for existing CCTV cameras				
1.2.1	Setup and configuration incl connection to radio network and Zonewatch network	Sum	1		

1.3	NVR configuration for FirstAlert integration				
1.3.1	Setup and configuration to FirstAlert service	Sum	1		
2	<u>Control Room</u>				
2.1	Operator desk and chair				
2.1.1	None	No.	0		
2.1.2	None	No.	0		
2.2	Operator PC (including mouse and keyboard) - Dell Tower Plus Core Ultra 7 265				
2.2.1	Supply	No.	1		
2.2.2	Install and configure	No.	1		
2.3	34" curved monitor incl stand - Dell P3425WE				
2.3.1	Supply	No.	2		
2.3.2	Install	No.	2		
2.4	55" overview monitor incl adjustable wallmount bracket - Samsung U8000F 4K Crystal UHD				
2.4.1	Supply	No.	2		
2.4.2	Install	No.	2		
2.5	42U network cabinet incl accessories as per specification				
2.5.1	Supply	No.	1		
2.5.2	Install	No.	1		

2.6	24-port Network switch incl 1Gbps Single-mode SFP - Aruba HPE ANW 6000 24G 4F				
2.6.1	Supply	No.	2		
2.6.2	Install and configure	No.	2		
2.7	2-channel Execuduct powerskirting				
2.7.1	Supply	m	30		
2.7.2	Install	m	30		
2.8	150mm wire mesh cable tray including mounting hardware				
2.8.1	Supply	m	15		
2.8.2	Install	m	15		
2.9	Dedicated electrical socket outlet in Execuduct powerskirting or P8000 trunking				
2.9.1	Supply	No.	21		
2.9.2	Install	No.	21		
2.10	Electrical 20A circuit breaker				
2.10.1	Supply	No.	5		
2.10.2	Install	No.	5		
2.11	Electrical P8000 trunking including mounting hardware				
2.11.1	Supply	m	15		
2.11.2	Install	m	15		
2.12	Electrical cabling				
2.12.1	Supply and install	Sum	1		

2.13	Sundries (display cables, power cables, mounting cradles etc)				
2.13.1	Supply and install	Sum	1		
3	<u>COPPER CABLING INSTALLATION</u>				
3.1	Data points, complete with CAT6A UTP Solid Molex cable, two molex keystone jacks and accessories as per the specification (20m average length), installed to the outlet point				
3.1.1	Supply	No.	9		
3.1.2	Install (Excluding testing and commissioning)	No.	9		
3.2	24-port CAT6 patch panel (blank)				
3.2.1	Supply	No.	1		
3.2.2	Install	No.	1		
3.3	Patch Leads Molex CAT6 UTP, complete with RJ45 moulded plugs				
3.3.1	2m Grey Supply	No.	9		
3.3.2	2m Grey Install	No.	9		
3.4	Fly leads Molex CAT6 UTP, complete with RJ45 moulded plugs				
3.4.1	3m Grey Supply	No.	9		
3.4.2	3m Grey Install	No.	9		
4	<u>COPPER CABLING INSTALLATION</u>				
4.1	Data points, complete with CAT6A UTP Solid Molex cable, two molex keystone jacks and accessories as per the specification (15m average length), installed to the outlet point				

3.1.1	Supply	No.	9		
3.1.2	Install (Excluding testing and commissioning)	No.	9		
5	<u>OTHER</u>				
5.1	Sundries	Sum	1		
6	TOTAL CARRIED FORWARD TO NETWORK SUMMARY PAGE				

SECTION C: TESTING, COMMISSIONING AND HANDING OVER

Item	Description	Unit	Tendered rates		
			Qty	Rate R-c	Total R-c
1	<u>TESTING, COMMISSIONING AND LABELLING</u>				
1.1	Testing and Commissioning of network point, including test report	No	9		
1.2	Data Outlets: Labelling of all data points at cabinets and outlets	No	9		
1.3	Testing and Commissioning of CCTV recording system	Sum	1		
1.4	Testing and Commissioning of electrical installation including CoC	Sum	1		
2	<u>AS-BUILT DOCUMENTATION</u>				
2.1	Nett amount for the provision of "AS-BUILT" drawings as per the specification	Sum	1		

3	<u>INSPECTIONS AND HANDING OVER</u>				
3.1	Wireway, data cabling and termination inspection	No	1		
3.2	Handing over	No	1		
4	TOTAL CARRIED FORWARD TO NETWORK SUMMARY PAGE				

SECTION D: SUMMARY

Item	Description	Unit	Tendered rates		
			Qty	Rate R-c	Total R-c
1	SECTION A: PRELIMINARY AND GENERAL				
2	SECTION B: NVR INSTALLATION				
3	SECTION C: TESTING, COMMISSIONING AND HANDING OVER				
4	SUBTOTAL				
5	CONTINGENCIES		10%		
6	TOTAL CARRIED FORWARD TO ELECTRONIC SUMMARY				
7	VAT		15%		
8	TOTAL				

PINELANDS CID CCTV SYSTEM: NVR AND CONTROL ROOM INSTALLATION

PART C3: SCOPE OF WORK AND SPECIFICATIONS

1 GENERAL

1.0 PROJECT DESCRIPTION

Pinelands CID requires the supply and installation of Network Video Recorder (NVR) devices for the recording of video footage from existing CCTV camera installations, as well as the supply and installation of equipment to establish a new remote operator viewing node.

All existing CCTV cameras are located in the Pinelands area and are currently being monitored from the Zonewatch control room in Maitland. Connectivity between the cameras and the control room is via an existing wireless radio and Fiber communication network.. The Pinelands CID is seeking to install NVR devices that will provide sufficient recording capacity to record the video feeds from the existing cameras for a period of 30 days. The NVR's shall also have spare capacity available to allow for the expansion of the CCTV camera footprint. The new NVR devices shall be installed in the existing equipment cabinet at the Zonewatch control room as detailed in the design documentation. The successful tenderer shall liaise with the Zonewatch technical staff regarding the provision of electrical supply and network connectivity to the devices and for details of the existing installations to configure the cameras on the NVR devices.

Once the NVR's have been installed and configured, the successful tenderer shall liaise with FirstAlert and the Zonewatch staff to provide connectivity for FirstAlert to the NVR devices to perform remote alarm monitoring.

The Pinelands CID also seeks to establish a local viewing node at their new offices located at the Old Mutual headoffice building in Pinelands including preparations of the space for future planned projects. Connectivity from the office space to the CCTV network will be established from the Zonewatch radio node on the roof level of the building. The required fibre optic cabling between the roof node and the office space will be installed by others. The viewing node will consist of an operator desk with a workstation and monitors as well as large format overview monitors.

1.1 SCOPE OF WORK

The scope of work includes the supply, installation, testing, commissioning and handing over in proper working order the equipment and software as specified in this Specification, and Schedules. The work for this contract includes, but is not limited to the following:

- Supply, installation and configuration of seven 32-channel NVR devices for CCTV camera video feed recording

- Configuration of remote connectivity to allow FirstAlert access to the NVR's for remote alarm monitoring
- Assistance with integration of the NVR devices into the Zonewatch HikCentral system
- Supply and installation of a new equipment cabinet at the new Pinelands CID offices at the Old Mutual building.
- Supply and installation of cabling containment infrastructure at the new offices.
- Supply, installation and configuration of network switches to provide connectivity from the Zonewatch radio node to the Pinelands CID offices
- Supply, installation and configuration of an operator workstation including workstation PC, 2x operator monitors and large format overview monitors
- Supply and installation of CAT6A network cabling using a structured cabling methodology at the new offices to connect the peripheral devices to the network switch
- Supply, installation and commissioning of electrical outlets in the new offices.
- Compiling and submission of as-built documentation

1.2 PROGRAMME

The successful tenderer must submit a programme within the timeframe stipulated in the contract data. If the tenderer fails to adhere to the tendered programme, penalties according to the contract data will be applicable.

The installation period will commence when the successful Tenderer has been appointed.

The tenderer shall carry out the equipment installation and configuration in strict accordance with the programme agreed between himself and the Pinelands CID.

The contract work shall be executed mainly during normal working hours. Work undertaken outside normal working hours shall in all instances only take place with the prior arrangement with and approval of the Pinelands CID's representative.

No claims for additional overtime work other than the above will be entertained without prior written approval of Pinelands CID.

1.3 MAKING GOOD

The successful tenderer will be responsible for making good in all trades of any damage to the buildings, environment or other services, which he or his employees may have incurred during the construction of works.

The successful tenderer will be responsible for keeping the site clean and tidy and must remove from the site on the on the same day all rubble and litter resulting from the works.

2 DETAIL SPECIFICATION

2.1 EXISTING CCTV SYSTEM INSTALLATION

The Pinelands CID CCTV installation currently consists of 83 individual camera installations in the Pinelands area of which 23 are fitted with dual optical/thermal type cameras. The cameras are connected to the Zonewatch HikCentral system at the Zonewatch control room in Maitland through a dedicated radio communications network. All video feeds are only recorded locally on SD cards installed inside the cameras.

All video feeds are monitored by Zonewatch and incidents are managed by the Zonewatch operators. Radio network maintenance as well as camera maintenance, such as cleaning and repairs, are performed by Zonewatch as contractors to Pinelands CID.

2.2 NETWORK VIDEO RECORDER INSTALLATION

The successful tenderer shall be responsible for the supply, installation and configuration of NVR devices for the recording of the existing CCTV camera video feeds as per the specifications below. The tenderer shall liaise with the Zonewatch technical staff to ensure that the NVR devices are incorporated into the Zonewatch HikCentral installation and that the operators have access to all video feeds after installation.

2.2.1 Hikvision Network Video Recorder (NVR)

The Hikvision NVR shall comply to the following specifications:

Item	Feature	Requirement
1	IP Video Input	32-channel
2	Incoming Bandwidth	320Mbps
3	Outgoing Bandwidth	400Mbps
4	HDMI 1 Output	Up to 8K (7680 x 4320)
5	HDMI 2 Output	Up to 4K (3840 x 2160)
6	VGA 1 Output	Up to 1920 x 1080
7	VGA 2 Output	Up to 1920 x 1080
8	Decoding Format	H.265; H.265+; H.264; H.264+
9	Decoding Capability	2-ch@32 MP (30 fps) + 2-ch@8 MP (30 fps)/10-ch@8 MP (30 fps)/20-ch@4 MP (30 fps)/40-ch@1080p (30 fps)
10	Network Protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
11	Network Interface	2x RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
12	RAID type	RAID0, RAID1, RAID5, RAID6, RAID10
13	SATA interfaces	8x SATA interfaces supporting hot-plug
14	eSATA	1x eSATA interface
15	HDD Capacity	Up to 16TB capacity for each disk
16	USB Interfaces	Front panel: 2x USB 2.0; Rear panel: 2x USB 3.0
17	Power Supply	100 to 240 VAC, 50 to 60 Hz
18	Operating Temperature	-10 °C to 55 °C
19	Chassis Format	2U Rack mountable

2.2.2 FirstAlert integration

As part of the NVR configuration, the successful tenderer shall liaise with the Zonewatch technical staff and setup remote access to the FirstAlert service for remote monitoring and verification of camera alarms. The contact details of the FirstAlert representative is indicated below:

- Name: Delamaine du Toit
- Cellphone number: 067 2555 777
- Email address: info@firstalert.co.za
- Website: <https://firstalert.co.za/>

2.3 REMOTE VIEWING NODE AT OLD MUTUAL BUILDING

The successful tenderer shall establish a new remote viewing node for the Pinelands CID staff at the new Pinelands CID offices located at the Old Mutual Head office in Jan Smuts Drive, Pinelands. The existing room shall be converted to provide an enclosed server room, a CCTV viewing area and an administrative office section.

The server room shall be equipped with a 42U equipment cabinet that will house the required fibre optic and copper cabling terminations, network switches and other related equipment for the current and future projects. All fibre optic installations will be done by other parties and will require liaison with the successful tenderer during installation.

The viewing node for this project shall consist of an operator desk with a five-wheel ergonomic operator chair and shall be equipped with an operator workstation. The workstation shall be equipped with two workstation monitors and shall be connected to an overview monitor for display of selected camera feeds.

The successful tenderer shall be responsible for the supply and installation of all required network cabling and containment routes to connect all peripheral devices to the network switch in the server room cabinet.

Refer to the relevant layout drawings for additional information.

2.3.1 Equipment cabinet

The 42U equipment rack for the server room shall allow the installation of 19" (483mm) wide units. The exact location of the rack is detailed in the relevant design layout drawing. All equipment required shall be mounted into these racks either directly into the 19" punch profiles or onto 19" trays. The depth of the rack shall be 1000mm and the width shall be 800mm.

The equipment rack shall be constructed from galvanised steel components, and shall be epoxy coated with an agreed colour. The front door shall be of glass type, and the rear door shall be of split perforated type.

The equipment rack shall have vents top and bottom to allow adequate airflow. The chassis design and any equipment shelves shall allow adequate airflow.

Suitable cable management for the type of equipment installed shall provide:

- Strain relief, bend radius control, and cable routing for proper product installation.
- Floor or ceiling distribution cable access.
- Vertical and horizontal U-channel cable troughs for routing of distribution cable.
- Flexible support rings for vertical and horizontal routing of patch cables.

The 42U rack shall come complete with the following equipment:

- 1 x 20 Amp double pole isolator.
- 2x 6-way PDU including power cable.
- 5 x Brush panel units.
- 10 x Blank panel units.
- 4x flat shelf mounting trays
- 4 Top mounted fans

The preferred cabinet is a Globalsix 42U cabinet or similar.

2.3.2 Operator workstation

The operator workstation PC shall comply to the following minimum specifications:

Item	Feature	Requirement
1	Chassis type	Tower
2	Processor family	Series 2 Intel Core Ultra 7
3	Processor frequency	1.80 / 5.30 GHz (30MB Cache, 20 Cores)
4	Internal memory	32 GB 5200 MHz (2 x 16 GB) DDR5-SDRAM
5	Storage	1 TB M.2 PCIe NVMe SSD
6	Discrete graphics card	NVIDIA GeForce RTX 5070 12GB GDDR7
7	Connectivity	Wi-Fi 7 BE200 and Bluetooth 1x RJ45 Ethernet port, 2.5Gbe
8	Video outputs	3x Display Port 1x HDMI
9	Operating software	Windows 11 Pro

The preferred PC is a Dell Tower Plus Core Ultra 7 265 or similar.

2.3.3 Workstation monitors

The workstation PC monitors shall be 34" in display size and shall comply to the following minimum specifications:

Item	Feature	Requirement
1	Display size	34" curved
2	Aspect ratio	21:9
3	Panel Type	IPS
4	Brightness	350 cd/m ²
5	Resolution	3440x1440
6	Viewing angle	178°/178°
7	Interface ports	1x Display Port 1.4 1x HDMI 1.4

The preferred 34" monitor is a Dell P3425WE or similar.

2.3.4 Overview monitors

The video wall displays shall be 55" in display size and shall be wall-mounted with suitable adjustable brackets and shall comply to the following minimum specifications:

Note that a Displayport to HDMI converter or cable will be required.

Item	Feature	Requirement
1	Display size	55"
2	Aspect ratio	16:9
3	Panel Type	LED
4	Resolution	3840 x 2160 (4K)
5	Refresh rate	50 Hz
6	High Dynamic Range (HDR)	Yes
7	Interface	1x USB-A 2x HDMI Wi-Fi 1x Ethernet (LAN)
8	Wall mount	Yes, VESA 200mm x 200mm

The preferred 55" monitor is a Samsung U8000F 4K Crystal UHD display or similar.

2.4 NETWORK CABLING INSTALLATION AT THE OLD MUTUAL CONTROL ROOM

The successful tenderer shall be responsible for all network cabling installations required in the new control room between the network cabinet located in the server room and the peripheral endpoints located throughout the control room as indicated in the design drawings.

2.4.1 Cable containment routes

The tenderer shall supply and install all required cabling containment routes from the server room to the end points. Cable containment routes beneath the ceiling shall be constructed with 2-compartment Execuduct powerskirting.

The cable containment route inside the ceiling shall be constructed with 150mm wire mesh cable tray as per the design drawing, including droppers from the ceiling trays to the equipment cabinet.

2.4.2 Cabling to network outlets

All network cabling between the server room and the network outlets shall be done with CAT 6A UTP Solid Molex cable

The CAT6A cabling to the peripheral end points shall be installed using a structured cabling solution. All network cables must be neatly terminated onto the patch panel or outlet points using Molex CAT6A RJ45 keystone jacks, complete with all accessories (frames, adaptors, Molex CAT6A UTP surface mount outlets, etc.) as may be required for installation onto the particular outlets. All cabling installations shall be tested after installation and copies of the test results shall be submitted to the Pinelands CID for review and included in the as-built documentation.

2.4.3 Patch leads and Fly leads

The successful tenderer shall supply and install Molex PowerCat CAT 6 UTP patch and fly leads as specified in the Schedule of Quantities. Patch leads shall be installed in the server room network cabinet while fly leads must be installed at the end points.

2.5 TESTING, COMMISSIONING AND HANDING OVER

The successful tenderer must allow in his offer for the complete testing and commissioning of the installation.

The tenderer must make provision in his quote for the supply of instrumentation, materials and tests required to commission the installation, before Pinelands CID is invited to the demonstration of the installation.

The tenderer shall ensure that the installation complies with the specification and has been carried out in workmanlike manner. Should any part of the installation fail during a test, or should the equipment in the opinion of Pinelands CID not meet with the requirements, the Contractor must replace, repair or correct such equipment at his own expense, to the satisfaction of Pinelands CID.

When the successful tenderer has satisfied himself that the whole installation complies with all the requirements of the specification and workmanship is of the required standard, the Engineer, Contractor and Pinelands CID Representative must be invited to perform an inspection on hand-over of the system and before the final account.

2.6 AS-BUILT DOCUMENTATION

The successful tenderer must submit a copy of the as-built documentation to Pinelands CID before practical completion (final handover) inspection.

The as-built documentation shall include a network point and patching schedule, and documented information of all equipment settings.

2.7 LIST OF DRAWINGS

The following list of drawings are applicable to this tender:

Drawing number	Description
K7914-E06-01	Zonewatch network cabinet layout
K7914-E06-02	Old Mutual control room layout
K7914-E06-03	Old Mutual control room operator station