

P.O. BOX 24 CALEDON 7230  
TEL: 028 – 214 3300

Dear Sir / Madam

**REQUEST FOR FORMAL WRITTEN PRICE QUOTATIONS**  
**QUOTATION NUMBER: JM 01/2022/23**

Kindly furnish us with a written quotation for:

**SUPPLY AND INSTALLATION OF SECURITY CAMERAS AND EQUIPMENT AT VARIOUS MUNICIPAL FACILITIES AT VILLIERSDORP**

The detailed project description and schedules are attached or can be obtained from **Mr. JC Mong** at Tel: **028 214 3300** or e-mail: [johannesmo@twk.org.za](mailto:johannesmo@twk.org.za), as well as technical enquiries.

A formal quotation must be submitted on the letterhead of your business and must have attached all relevant signed schedules and additional information as requested. Failure to do so will result in the quotation to be rejected. The quotation must be in a sealed envelope and clearly marked: **Tender Box No. 2**, for attention: **JC MONG, QUOTATION NO.: JM 01/2022/23** and the service provider's name and address. Quotations will not be accepted if they don't comply with the marking instructions. Quotations must be placed in tender box **No. 2** at the **Main Entrance** of Theewaterskloof Municipality, 6 Plein Street, Caledon by no later than **12:00 on Friday, 29 July 2022** immediately after which the quotations will be opened in public in the Council Chambers. If posted, interested service providers to ensure that sufficient time are given for the post to reach us before the closing date and time. Council cannot take responsibility for any delays.

**Compulsory Site Meeting:**

- **A compulsory site meeting will be held on Tuesday, 26 July 2022; and**
- **Attendees are to meet at the Villiersdorp Town Office, 53 Main Road, Villiersdorp at 10:00am. Prospective bidders who arrive later than 10:15 will not be allowed into the site meeting. Bidders should be represented at the site meeting by a person who is suitably qualified and experienced to comprehend the implications of the work involved**

**1. Standard Conditions of Quotation:**

**The following conditions will apply:**

- Quotations must be completed in hand writing with black ink.
- Prices must be valid for at least sixty (60) days from date of your offer.
- Price(s) quoted must be firm and must be inclusive of VAT, clearly indicating Price, VAT and Total Price.
- **The work must be completed within two (2) months of date of official order.**
- This quotation will be evaluated in terms of the 80/20 preference point system as prescribed in the Preferential Procurement Regulations of 2017 and for this purpose the **MBD 2, MBD 4, MBD 6.1, MBD 8 & MBD 9** forms which are available on the Municipal Website [www.twk.gov.za](http://www.twk.gov.za) must be completed and submitted together with your quotation subject to the test for administrative compliance.
- The successful provider will be the one scoring the highest points.
- A **Valid Tax Compliance Pin Certificate** and a copy of your **latest Municipal Account / Lease Agreement** must be attached to your quotation subject to the test for administrative compliance.
- **Council may accept a quotation in full, partially or not at all.**
- Payments will be made not later than 30 days, after the receipt of a tax invoice.
- Invoices must not be issued before goods / services have been supplied / rendered.
- The General Conditions of Contract will apply to this quotation.
- Calculation errors will be corrected by the Municipality by using the unit prices.
- If a valid B-BBEE certificate, EME or QSE affidavit is not attached, it will be interpreted that the preference points for B-BBEE status level or contribution are not claimed.

- If a valid B-BBEE certificate, EME or QSE affidavit is attached and points are not claimed in terms of the MBD 6.1, it will be interpreted that the preference points for B-BBEE status level or contribution are not claimed.
- Please note that the Municipality will not request a valid B- BBEE certificate or Sworn Affidavits if such is not attached to the bidders tender at closing date of this tender.
- The estimated contract value for the period will be used to calculate the financial offer for evaluation purposes in terms of the 80/20 preference point system and will be awarded per unit prices as tendered for.
- The municipality reserves the right to appoint the bidder scoring first, second and third highest preference points at any time during the duration of the contract. When the tenderer scoring the highest points cannot perform on the contract, the municipality has the right to purchase from the tenderer scoring the second highest points and if the second highest points scorer cannot perform on the contract, the municipality reserves the right to purchase from the tenderer scoring the third highest points.
- No alternative offers will be accepted.

## **2. Bidders Obligations:**

### **2.1 Eligibility Criteria**

Only bidders who satisfy the following criteria are eligible to submit an offer: **(This is a requirement on submission).**

#### **2.1.1 Specifications**

- In order to be considered for a contract in terms of this quotation, the bidder must sign and declare compliance by **Schedule 1**.

#### **2.1.2 Special Conditions of Contract**

- In order to be considered for a contract in terms of this quotation, the bidder must sign and declare compliance by **Schedule 2**.

#### **2.1.3 Scope of Works**

- In order to be considered for a contract in terms of this quotation, the bidder must sign and declare compliance by **Schedule 3**.

#### **2.1.4 Pricing Instruction**

- In order to be considered for a contract in terms of this quotation, the bidder must price on all the items in the schedule of services required.

#### **2.1.5 CIBD Grading**

- In order to be considered for a contract in terms of this quotation, bidders must be registered at the Construction Industry Development Board (CIBD) and must have at least a Grading of SQ1. Please attach proof of CIBD Registration.

## **3. The Employer's Undertakings**

### **3.1 Tests for Administrative Compliance**

Bidders may be found non-compliant if, inter alia: (these documents may be requested)

- The bidder has failed to complete and sign and attach requested information to all schedules not excluded in responsiveness criteria;
- The bidder has failed to submit the MBD 2, MBD 4, MBD 8 and MBD 9 forms;
- The bidder has failed to submit a municipal account of where the head office of the company is registered or in case where the premise is leased, the bidder has failed to provide a copy of the lease of the premise;
- The bidder has failed to submit a valid Tax Compliance Status Pin Certificate, a valid Tax Compliance Status Pin Certificate may be requested; and
- The bidder has failed to submit a certified B-BBEE certificate, EME or QSE affidavit, whereas points were claimed and a copy of certificate or affidavit was supplied, a certified copy of the B-BBEE certificate, EME or QSE affidavit may be requested.

**NB: No quotations will be considered from persons in the service of the state**

**Failure to comply with these conditions may invalidate your offer.**

Yours faithfully

**SIGNATURE**

**SUPPLY CHAIN MANAGEMENT**

**DATE: 22 JULY 2022**

**SCHEDULE OF SERVICES REQUIRED**

<b><u>NO</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>ESTIMATED QUANTITY</u></b>	<b><u>UNIT PRICE</u></b>		<b><u>PRICE</u></b>	
			<b>R</b>	<b>c</b>	<b>R</b>	<b>c</b>
1.1	Supply of Security Cameras at Head Office	1				
1.2	Supply of NVR at Head Office	1				
1.3	Supply of Security Cameras at Water treatment works	4				
1.4	Supply of Security Cameras at Waste water treatment works	4				
1.5	Supply of Security Cameras at Depot	4				
1.6	Supply of Security Cameras at Sportsground	3				
1.7	Supply of Security Cameras at Sportsground	1				
2.1	Supply of point to point network antenna at the various facilities	10				
2.2	Installation of point to point network antenna at the various facilities	10				
3.1	Installation of Security Cameras at Head Office	1				
3.2	Installation of NVR at Head Office	1				
3.3	Installation of Security Cameras at Water treatment works	4				
3.4	Installation of Security Cameras at Waste water treatment works	4				
3.5	Installation of Security Cameras at Depot	4				
3.6	Installation of Security Cameras at Sportsgrounds	3				
3.7	Installation of Security Cameras at Sportsgrounds	1				
4.1	Supply of surveillance 4TB Hard drive at Head Office	1				
4.2	Installation of surveillance 4TB Hard drive at Head Office	1				
			Sub Total			
			Vat @ 15%			
			<b>TOTAL</b>			

**DELIVERY ADDRESS:**

Theewaterskloof Municipality  
53 Main Road  
Villiersdorp  
6848

I/We, the undersigned, do hereby declare that these are the properly priced Bill / Schedules of Quantities forming part of this Contract Document containing Pages in consecutive order upon which my/our Quotation No: **JM 01/2022/23 – SUPPLY AND INSTALLATION OF SECURITY CAMERAS AND EQUIPMENT AT VARIOUS MUNICIPAL FACILITIES AT VILLIERSDORP**, has been based.

My/our total Contract Price for this work and above items (Total) is (in words)

.....  
.....

\_\_\_\_\_  
**SIGNED ON BEHALF OF BIDDER:**

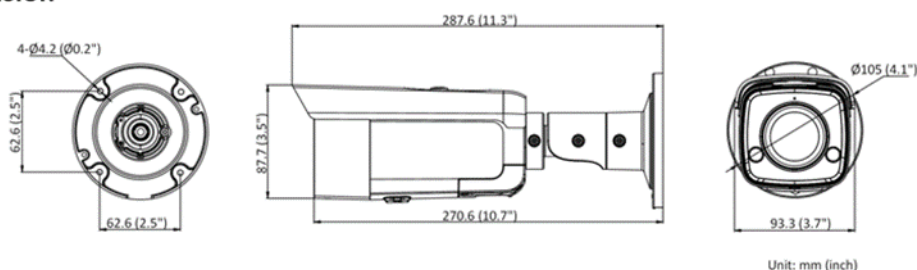
## SCHEDULE 1: SPECIFICATIONS

Items 1.1 ; 1.3 ; 1.4 ; 1.5 ; 1.6	
<b>Camera</b>	
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.003 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
Shutter Speed	1/3 s to 1/100,000 s
Slow Shutter	Yes
P/N	P/N
Wide Dynamic Range	120 dB
Day & Night	IR cut filter
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
<b>Lens</b>	
Lens Type	Fixed focal lens, 2.8, 4, and 6 mm optional
Iris Type	Fixed
Focal Length & FOV	2.8 mm, horizontal FOV: 103°, vertical FOV: 55°, diagonal FOV: 123° 4 mm, horizontal FOV: 83°, vertical FOV: 45°, diagonal FOV: 98° 6 mm, horizontal FOV: 53°, vertical FOV: 29°, diagonal FOV: 62°
Aperture	F1.4
Lens Mount	M12
<b>DORI</b>	
DORI	2.8 mm: D: 60.0 m, O: 23.8 m, R: 12.0 m, I: 6.0 m 4 mm: D: 80.0 m, O: 31.7 m, R: 16.0 m, I: 8.0 m 6 mm: D: 120.0 m, O: 47.6 m, R: 24.0 m, I: 12.0 m
<b>Illuminator</b>	
Supplement Light Type	IR
IR Range	Up to 60 m
IR Wavelength	850 nm
Smart Supplement Light	Yes
Visual Alarm	Yes
<b>Video</b>	
Max. Resolution	2688 × 1520
Main Stream	50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (640 × 480, 640 × 360) 60 Hz: 30 fps (640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) 60 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.265+/H.264+ Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 *Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 8 Mbps

H.264 Type	Baseline Profile/Main Profile/High Profile
H.265 Type	Main Profile
H.264+	Main stream supports
H.265+	Main stream supports
Bit Rate Control	CBR/VBR
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Audio	
Environment Noise Filtering	Yes
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Audio Compression	G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3/AAC
Audio Bit Rate	64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC)
Network	
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, ARP, WebSocket, WebSockets
User/Host	Up to 32 users. 3 user levels: administrator, operator and user
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2, WSSE and digest authentication for Open Network Video Interface
Network Storage	MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported
Client	iVMS-4200, Hik-Connect, Hik-Central
Web Browser	Plug-in required live view: IE 10+ Plug-in free live view: Chrome 57.0+, Firefox 52.0+ Local service: Chrome 57.0+, Firefox 52.0+
Image	
SNR	≥ 52 dB
Day/Night Switch	Day, Night, Auto, Schedule
Image Enhancement	BLC, HLC, 3D DNR
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser
Interface	
Alarm	1 input, 1 output (max. 24 VDC/24 VAC, 1 A)

Audio	1 input (line in), terminal block, max. input amplitude: 3.3 Vpp, input impedance: 2.2 K $\Omega$ , interface type: non-equilibrium; 1 output (line out), terminal block, max. output amplitude: 3.3 Vpp, output impedance: 10 $\Omega$ , interface type: non-equilibrium; 1 built-in speaker, 1 built-in microphone
Built-in Microphone	Yes
Built-in Speaker	Power: 2 W. Max. sound pressure level: 10 cm: 97 dB.
On-Board Storage	Built-in micro SD/SDHC/SDXC slot, up to 256 GB
Hardware Reset	Yes
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
Event	
Basic Event	Motion detection (human and vehicle targets classification), video tampering alarm, exception
Smart Event	Scene change detection
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing detection, intrusion detection, region entrance detection, region exiting detection
General	
Linkage Method	Upload to NAS/memory card/FTP, notify surveillance center, trigger recording, trigger capture, send email, strobe light, audible warning
General Function	Anti-flicker, heartbeat, mirror, privacy mask, flash log, password reset via email, pixel counter
Software Reset	Yes
Firmware Version	V5.5.112
Power Supply	12 VDC $\pm$ 25% PoE: 802.3af, Class3
Power Consumption and Current	12 V, 0.88 A, max. 10.5 W PoE (802.3af, 36 V to 57 V), 0.34 A to 0.21 A, max: 12 W
Power Interface	$\varnothing$ 5.5 mm coaxial power plug
Camera Material	Aluminum alloy body
Camera Dimension	$\varnothing$ 105 mm $\times$ 287.6 mm ( $\varnothing$ 4.1" $\times$ 11.3")
Package Dimension	386 mm $\times$ 156 mm $\times$ 155 mm (15.2" $\times$ 7.5" $\times$ 7.1")

▪ **Dimension**





Item 1.2		
Facial Recognition <sup>1</sup>		
Facial detection and analytics	Face picture comparison, human face capture, face picture search	
Face picture library	Up to 16 face picture libraries, with up to 10,000 face pictures in total (each picture ≤ 512 KB, total capacity ≤ 150 MB)	
Face picture comparison	4-ch face picture comparison alarm	
Performance of facial detection and analytics	1-ch human face capture (HD network camera, up to 4 MP, H.264/H.265)	
Perimeter Protection <sup>1</sup>		
False alarm reduction	Up to 4-ch 2 MP (H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm; Up to 12 rules in total	
Video and Audio		
IP video input	16-ch	32-ch
	Up to 12 MP resolution *: 32 MP and 24 MP is only available for channel 1 when ultra HD resolution mode is enabled.	
Incoming bandwidth	160 Mbps	256 Mbps
Outgoing bandwidth	256 Mbps	256 Mbps
HDMI1 output	4K (3840 × 2160)/60Hz, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz, HDMI1/VGA simultaneous output	
HDMI2 output	1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz, HDMI2/VGA independent output	
VGA output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz, HDMI1/VGA simultaneous output	
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω), resolution: PAL: 704 × 576, NTSC: 704 × 480	
Audio output	1-ch, RCA (Linear, 1 KΩ)	
Two-way audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ)	
Decoding		
Decoding format	H.265+/H.265/H.264+/H.264/MPEG4	
Recording resolution	32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF *: 32 MP and 24 MP is only available for channel 1 when ultra HD resolution mode is enabled.	
Playback mode	Normal/Smart, Event, Tag, Eternal File	
Synchronous playback	16-ch	
Live view window division	1/2/4/6/8/9/16	1/2/4/6/8/9/16/25/32/36
Aux port window division	1/2/4/6/8/9/16	1/2/4/6/8/9/16/25/32/36
Capability	16-ch @ 1080p (30 fps)	
Dual stream recording	Support	

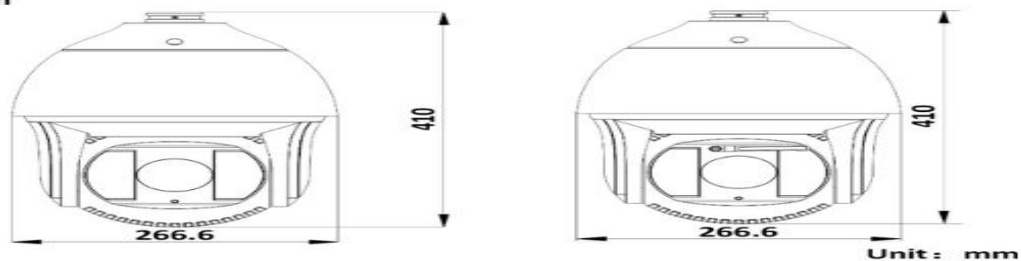
Stream type	Video, Video & Audio
Audio compression	G.711ulaw/G.711alaw/G.722/G.726/MP2L2
<b>Network</b>	
Remote connections	128
Network protocol	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS
Network interface	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
<b>Auxiliary interface</b>	
Serial port	RS-485 (half-duplex), RS-232, Keyboard
SATA	4 SATA interfaces supporting hot-plug
Capacity	Up to 10 TB capacity for each disk
eSATA	1 eSATA interface
Alarm in/out	16/4
USB interface	Front panel: 2 × USB 2.0; Rear panel: 1 × USB 3.0
<b>General</b>	
Power supply	100 to 240 VAC, 50 to 60 Hz
Total power	≤ 80 W
Consumption (without HDD)	≤ 30 W

<b>Item 1.7</b>	
<b>Camera Module</b>	
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination	Color: 0.002 Lux @ (F1.2, AGC ON) B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR
Shutter Speed	1/1 s to 1/30,000 s
Focus	semi-auto, manual, auto
Day & Night	ICR
BLC	yes
WDR	140dB WDR
HLC	yes
3D DNR	yes
EIS	Yes. Built-in gyroscope to improve EIS performance.
Regional Exposure	yes
Regional Focus	yes
Digital Zoom	16 ×
Optical Zoom	42 ×
Privacy Mask	up to 24 masks, polygon region, mosaic mask, mask color configurable
General Function	mirror, password protection, watermark, IP address filter
Optical Defog	yes
<b>Lens</b>	
Focal Length	6.0 mm to 252 mm, 42 × Optical
Zoom Speed	approx. 4.5 s
FOV	Horizontal field of view: 56.6° to 1.7° (wide-tele), Vertical field of view: 33.7° to 0.9° (wide-tele), Diagonal field of view: 63.4° to 1.9° (wide-tele)
Aperture	F1.2 to F4.6
<b>PTZ</b>	
Movement Range (Pan)	360°
Movement Range (Tilt)	-20° to 90° (auto flip)

Pan Speed	pan speed: configurable from 0.1° to 210°/s; preset speed: 280°/s
Tilt Speed	tilt speed: configurable from 0.1° to 150°/s, preset speed 250°/s
Proportional Zoom	yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Power-off Memory	yes
Park Action	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	yes
PTZ Status Display	yes
Preset Freezing	yes
Scheduled Task	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
<b>Video</b>	
Max. Resolution	1920 × 1080
Main Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720) 60Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	50Hz: 25fps (704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265, H.264, MJPEG
H.264 Type	baseline profile, main profile, high profile
H.265 Type	main profile
H.264+	yes
H.265+	yes
SVC	yes
ROI	dynamic face tracking, fixed region, dynamic license plate tracking
<b>Audio</b>	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM
Audio Bit rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps(MP2L2)
<b>Smart Features</b>	
Face Capture	Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face.
Road Traffic	Support vehicle detection (license plate number, vehicle model, and vehicle color recognition)
Basic Event	motion detection, video tampering alarm, alarm input and output
Smart Event	unattended baggage detection, object removal detection, intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection
Smart Tracking	manual tracking, event tracking, auto-tracking
Smart Record	ANR, Dual-VCA
Alarm Linkage	Alarm actions, such as Preset, Patrol Scan, Pattern Scan, Memory Card Video Record, Trigger Recording, Notify Surveillance Center, Upload to FTP/Memory Card/NAS, Send Email, etc.
Vandal-proof Alarm	Yes

Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)			
Network				
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour			
API	ISAPI, Hikvision SDK, ONVIF (Profile S, Profile G, Profile T)			
Simultaneous Live View	Up to 20 channels			
User/Host	Up to 32 users. 3 levels: Administrator, Operator and User			
Security Measures	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption; IEEE 802.1x port-based network access control; IP address filtering			
Client	iVMS-4200, Hik-Connect, HikCentral			
Web Browser	IE 8 to 11, Chrome 31.0+, Firefox 30.0+, Safari 11+			
Interface				
Communication Interface	1 RJ45 10 M/100 M Ethernet Interface; Hi-PoE			
On-board Storage	Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB; NAS (NFS, SMB/ CIFS), ANR			
Alarm Input	7 alarm inputs			
Alarm Output	2 alarm outputs			
Audio Input	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%			
Audio Output	1 audio output, line level, impedance: 600 Ω			
Video Output	1.0V[p-p]/75Ω,PAL,NTSC,BNC connector			
RS-485	HIKVISION, Pelco-P, Pelco-D, self-adaptive			
Supplement Light				
IR Distance	400 m			
Smart IR	yes			
General				
Power	24 VAC (Max. 60 W, including max. 18 W for IR and max. 6 W for heater), Hi-PoE (Max. 50 W, including max. 18 W for IR and max. 6 W for heater)			
DORI(detect, observe, recognize, identify)	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	3475.9 m (11403.9 ft)	1379.3 m (4525.3 ft)	695.2 m (2280.8 ft)	347.6 m (1140.4 ft)

• Dimension



Item 2.1		
Power Supply	24V, 0.3A Gigabit PoE Adapter (Included)	
Max. Power Consumption	7W	
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)	
Supported Voltage Range	24V ± 10%	
Gain	23 dBi	
Networking Interface	(1) 10/100/1000 Ethernet Port	
Processor Specs	MIPS 74Kc	
Memory	64 MB DDR2	
LEDs	Power, Ethernet	
Channel Sizes	PtP Mode	PtMP Mode
	10/20/30/40/50/60/80 MHz	10/20/30/40 MHz
Enclosure Characteristics	Reflector (SGCC 0.6T) / Plastic: PC	
Mounting	Pole-Mounting Kit (Included)	
Wind Loading	275 N @ 200 km/h (61.8 lbf @ 125 mph)	
Certifications	CE, FCC, IC	
	Operating Frequency (Mhz)	
Worldwide	5150-5875	
	Management Radio (Mhz)	
Worldwide	2412-2472	

Item 4.1	
Capacity: 4TB	
Form factor: 3.5 inch drive	
Type: internal	
Interface: SATA	

If the bidder fails to sign this schedule, it will be interpreted that the bidder does not comply with the Specifications and therefore will be regarded as being not eligible.

I hereby declare that I comply with the Specifications.

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Signature on Behalf of Tenderer

\_\_\_\_\_  
Date

<p style="text-align: center;"><b>SCHEDULE 2: SPECIAL CONDITIONS OF CONTRACT</b></p>
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<b>SPECIAL CONDITIONS OF CONTRACT</b>
Contractor to liaise with Technical Officer, in writing, if service cannot be completed according to schedule
Invoice to be submitted to the Senior Foreman: Grounds and Buildings after a site inspection was conducted
The contractor shall be responsible to manage his team.
Connection to power supply will be conducted by the Municipality
The successful bidder must submit a letter of Good Standing with from Department of Labour prior to sign of the contract.
Bidders must submit proof of having Public Liability Assurance of R200,000.00 per claim on date of signature of contract.

**If the bidder fails to sign this schedule, it will be interpreted that the bidder does not comply with the Special Conditions of Contract and therefore will be regarded as being not eligible.**

**I hereby declare that I comply with the Special Conditions of Contract.**

\_\_\_\_\_  
**Name of Bidder**

\_\_\_\_\_  
**Signature on Behalf of Tenderer**

\_\_\_\_\_  
**Date**

<p style="text-align: center;"><b>SCHEDULE 3: SCOPE OF WORKS</b></p>
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The Supply and Installation of security cameras and equipment at various municipal facilities in Villiersdorp. The Contractor will have to supply and install the security cameras and NVR. The Municipality will do the electrical connections for each camera setup.

Payments are to be completed after each period and the contractor to ensure a municipal official, preferably Senior Foreman: Grounds and Buildings to complete an inspection before payment is made.

The contractor will be liable for all machinery and equipment needed for the uptake of the works.

The Contractor must abide by the Health and Safety Practise and take full responsibility for the job, public and personnel appointed.

**PROJECT SPECIFICATIONS**

**1 PROJECT SPECIFICATIONS**

SCOPE

This Project Specification covers a general description of the project, the facilities available and required, special features of the contract and the requirements to be met by the Contractor.

## **STATUS**

Should any requirement or provision of the Project Specification conflict with any requirement or provision of any other specification section or clause that are applicable to the contract, the requirement or provision of the Project Specification shall prevail.

## **PS1 DESCRIPTION OF THE CONTRACT AND WORKS**

The Work is funded by and undertaken for the Theewaterskloof Municipality.

## **PS2 DESCRIPTION OF SITE AND ACCESS**

### **PS2.1 Locality**

- The sites are at various municipal facilities:
  - Main office: 59 Main road
  - Water treatment works: Ham street
  - Waste water treatment works: van Riebeeck street
  - Depot: van Riebeeck street
  - Sportsgrounds: Buitenkant street

### **PS2.2 Access to the Site of Works**

Access roads are available to all the sites.

## **PS3 SITE FACILITIES AVAILABLE**

### **PS3.1 HOUSING FACILITIES**

No housing is available and the Contractor shall make his own arrangements to house his employees and for their transport to and from the Site of Works.

### **PS3.2 OFFICE ON SITE**

No office facility is available on site and the contractor shall make his own arrangements for office facilities, if required.

### **PS3.3 POWER SUPPLY**

The contractor will be accountable for all small plants and no power supply will be made available for small plants, whilst work is being completed at the site.

### **PS3.4 TELEPHONE FACILITIES**

The Contractor shall make his own arrangements for telephone facilities at the site, if required. The contractor should note that Cell Phone reception is generally available on the site.

### **PS3.5 ABLUTION AND LATRINE FACILITIES**

The contractor will provide his/her own ablution facilities

## **PS4 FEATURES OF THE CONTRACT REQUIRING SPECIAL ATTENTION**

### **PS4.1 AUTHORITIES AND THE COMMUNITY**

The Contractor shall comply with all the requirements of the Theewaterskloof Municipality insofar as the execution of the contract may affect or may be effected by the requirements and/or regulations of the said Authorities.



**PS4.2 TIDYING**

The Contractor shall ensure that when works are completed the site is left neat and tidy

**PS4.3 EXTENT OF WORK**

The approximate extent of the work is listed below to assist the Contractor in understanding the contract.

**PS4.4 HOURS OF OPERATION**

The Contractor to work at any operating hours which suits him and the community, as he/she is to ensure that all waste/litter is collected and removed.

**PS4.5 OPERATION**

The Service Provider shall:

- Order and ensure the safe keeping of all the materials needed

**PS4.6 PLANT**

The Contractor will be responsible for all the planning and supply of the necessary plant and the Contractor must at all times have sufficient plant on site to carry out the required operations according to the Operational Manual. The contractor will be responsible for any delays due to small plant breakages.

**PS4.7 EMERGENCIES**

The Contractor must be available for all emergency services and situations. The Contractor must at all times be in contact with the operators on site, either by telephone or by radio.

**PS4.9 PERSONNEL**

The Contractor must submit a form indicating all personnel that will be present on site as well as their official duties.

The municipality has the power to request the removal of any personnel on site that acts negligently or is not complying with his/her duties.

**PS5 EMPLOYER'S REQUIREMENTS**

**PS5.1 Commencement and Time for Completion**

The work must commence within 15 calendar days from date of official order or as prescribed times and must be completed as per schedule.

**PS6 MEASUREMENT AND PAYMENT**

The Contractor shall submit to the Employer an invoice for the execution of the Works. Payment of such invoices shall be paid within 30 days of receipt thereof. Exemption will be made for SMME's upon request. **(2 weeks for earlier payments)**

I am aware that I must request the municipal representative to approve and measure any work done that will subsequently be covered by later work, before commencement of further work. Failure to adhere to this requirement will result in non-payment of the payment item in question.

Typical payment items falling within this category are the various cutting periods. The onus lies with the service provider to familiarize him/her with the quantity measurement approval requirements of all payment items before commencement of any work.

I am aware that payment will be made according to rate multiplied by the actual work done, measured in terms of the specified quality and unit of measurement description of the payment items. No payment will be affected for substandard quality.

Invoices must be submitted together with our municipal prescribed payment certificate format. Failure to comply with this requirement will result in non-payment until such stage that the payment certificate is submitted.

## **1.1 Additional Services**

### Act as the Employers agent in terms of the Occupational Health and Safety Act

The Service Provider, in submitting a tender for this contract, shall be deemed to have acknowledged acceptance of the appointment as the client's agent in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and the Construction Regulations of 2014, should the Employer accept the tender. The Service Provider shall, as such, execute all of the duties of the client as contemplated in the Construction Regulations.

If the Service Provider considers it necessary to employ the services of a safety specialist in order to execute the abovementioned duties, the cost thereof must be included in the fee tendered for this project.

The Service Provider shall, apart from conducting his own activities in compliance with the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) and Construction Regulations of 2014, ensure that any sub-consultants/sub-contractors employed by the Service Provider also comply with the requirements of the Act and Regulations. The Service Provider shall enter into an agreement with the Employer in this regard before the commencement of any work related to this contract (Form C1.3, Part C1, Page 8 refers).

## **1.2 Implementation of a Quality Assurance System**

The Service Provider shall develop and implement a quality assurance system which will ensure that the final product meets the requirements of the Employer.

## **2 APPROVALS**

The Service Provider shall be responsible for obtaining the following approvals:

- Approval of the workplan (work program)

Notwithstanding any approval received from the Employer, the Service Provider shall remain responsible for all work carried out by the Service Provider in terms of this contract.

The Employer may withdraw approval of the workplan (work program) and quality assurance system at any time and require the Service Provider to review them. The service provider shall provide revised documents in accordance with the Employers wishes within two weeks of the withdrawal notice. The Technical Officer shall have the right to stop all work on the site should the Service Provider fail to provide a new workplan (work program) the substantially address the concerns of the Employer within the time limits above. The Service Provider shall have no right to recompense in the event of such a work stoppage.

## **3 FORMAT OF COMMUNICATION**

All requests for formal approval from the Employer, or any other body, shall be submitted in writing in hardcopy format. Interim payment claims shall be submitted in the same format, accompanied by an original tax invoice. Ad-hoc communication between the Employer and the Service Provider may be conducted per facsimile or in electronic format (e-mail).

All plans and contract documents submitted for approval shall be in both hardcopy format and agreed electronic format.

## **4 KEY PERSONNEL**

The Service Provider is to have in its employment at the site, personnel with sufficient relevant experience in the operation of such a site.

## **5 SITE MEETINGS**

There will be an initial site meeting before the commencement of works and a close-off meeting with respect of this project.

## **6 EMPLOYERS RIGHT TO WITHHOLD PAYMENT**

The Employer reserves the right to withhold payment in the event of the contractor not complying with the provisions of the permit.

The employer reserves the right to deduct any penalties as applied from any moneys due to the Service Provider.

## **PROJECT SPECIFIC NOTES TO BIDDER:**

1. Contractor needs to ensure that all work is carried out in compliance with the Occupational Health and Safety Act, as well as the relevant Construction Regulations of 2014.
2. The General Conditions of Contract are the General Conditions of Contract for Construction Works (2015) as published by the South African Institution of Civil Engineering.
3. Damage to any services must be repaired by the contractor, at his own cost.
4. Special attention must be given to the protection of private property.
5. All necessary public safety measures must be taken in terms of OHS Act.
6. Special care must be given to ensure accessibility of properties at all times.
7. The contractor must keep the owners of the relevant properties informed of their weekly program.
8. This information must first be submitted to the client 3 working days before commencement of any activity on site.
9. An updated program will be submitted each time when falling behind the program, giving sufficient detail to the steps to be taken to ensure completion of the work by the completion date. Failure to adhere to this requirement will result in the termination of the contract.
10. The Contractor must ensure that his work program takes into consideration other Contractors working on site.

**If the bidder fails to sign this schedule, it will be interpreted that the bidder does not comply with the Scope of Works and therefore will be regarded as being not eligible.  
I hereby declare that I comply with the Scope of Works.**

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**Name of Bidder**

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**Signature on Behalf of Tenderer**

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**Date**

## PART A INVITATION TO BID

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE THEEWATERSKLOOF MUNICIPALITY</b>					
Bid Number:	JM 01/2022/23	Closing Date:	29 JULY 2022	Closing Time:	12:00
Description:	SUPPLY AND INSTALLATION OF SECURITY CAMERAS AT VARIOUS MUNICIPAL FACILITIES AT VILLIERSDORP				
<b>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (CONTRACT FOR THE RENDERING OF SERVICES)</b>					
Bid Response Documents may be Deposited in the Bid Box <b>NO. 2</b> situated at:					
<b>MUNICIPAL HEAD OFFICE</b>					
<b>06 PLEIN STREET</b>					
<b>CALEDON</b>					
<b>7230</b>					
<b>SUPPLIER INFORMATION</b>					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
TAX COMPLIANCE STATUS	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes  <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT  <input type="checkbox"/> Yes  <input type="checkbox"/> No		
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES &amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>					
1. ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		2. ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3 ]	
3. TOTAL NUMBER OF ITEMS OFFERED			4. TOTAL BID PRICE	R	
5. SIGNATURE OF BIDDER	.....		6. DATE		
7. CAPACITY UNDER WHICH THIS BID IS SIGNED					
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:</b>			<b>TECHNICAL INFORMATION MAY BE DIRECTED TO:</b>		
DEPARTMENT	SCM		CONTACT PERSON	JC Mong	
CONTACT PERSON	Henri-John Philander		TELEPHONE NUMBER	028 840 1130	
TELEPHONE NUMBER	028 214 3300		FACSIMILE NUMBER	N/A	
FACSIMILE NUMBER	028 212 1229		E-MAIL ADDRESS	<a href="mailto:johannesmo@twk.org.za">johannesmo@twk.org.za</a>	
E-MAIL ADDRESS	<a href="mailto:henri-johnph@twk.org.za">henri-johnph@twk.org.za</a>				

## PART B

### TERMS AND CONDITIONS FOR BIDDING

#### 1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR ONLINE**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.

#### 2. TAX COMPLIANCE REQUIREMENTS

- 2.1 Bidders must ensure compliance with their tax obligations.
- 2.2 Bidders are required to submit their unique personal identification number (pin) issued by sars to enable the organ of state to view the taxpayer's profile and tax status.
- 2.3 Application for the tax compliance status (tcs) certificate or pin may also be made via e-filing. In order to use this provision, taxpayers will need to register with sars as e-filers through the website [www.sars.gov.za](http://www.sars.gov.za).
- 2.4 Foreign suppliers must complete the pre-award questionnaire in part b:3.
- 2.5 Bidders may also submit a printed tcs certificate together with the bid.
- 2.6 In bids where consortia / joint ventures / sub-contractors are involved, each party must submit a separate tcs certificate / pin / csd number.
- 2.7 Where no tcs is available but the bidder is registered on the central supplier database (csd), a csd number must be provided.

#### 3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

- |  |  |
|--|--|
| 3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA?                       | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?      | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?           | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| 3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?       | <input type="checkbox"/> YES <input type="checkbox"/> NO |

**IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.**

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

SIGNATURE OF BIDDER: .....

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