REQUEST FOR INFORMATION

RFI NUMBER:	JW RFI 12/03/2026 MC
DESCRIPTION:	DESIGN, SUPPLY, INSTALLATION, COMMISSIONING MAINTENANCE AND SUPPORT OF AN ARTIFICIAL INTELLIGENCE[AI]-ENABLED ADVANCED SECURITY TECHNOLOGY SOLUTION
ISSUE DATE	12 March 2026
CLOSING DATE	19 March 2026 @ 12:00pm
SUBMISSION	**Submissions must be uploaded on the eTender portal Using Your CSD LOGING https://www.etenders.gov.za/Home/opportunities?id=1**

ENQUIRIES MAY BE DIRECTED TO:			
Bidding procedure enquiries must be sent to		**Technical enquiries must be directed to**	
CONTACT PERSON	Maria Chirrindze	CONTACT PERSON	Seemela Mashego
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SUPPLIER INFORMATION	
NAME OF BIDDER	
STREET ADDRESS	
CELLPHONE/ TEL NUMBER	
E-MAIL ADDRESS	
VAT REGISTRATION NUMBER	
CENTRAL SUPPLIER DATABASE No:	MAAA
MANUFACUTER OR THIRD PARTY	
Submitted a brochure containing information about the Model/Software . (YES/NO)	

1. **PURPOSE OF THE REQUEST FOR INFORMATION**

   The RFI response proposals is enquired to assist the organisation with business decision making purposes for an upcoming thirty-six (36) months Request for Tender with regards to budget, cost effectiveness, risk assessment, specific goals to include in the tender, award and allocation strategy to incorporate, firm or non-firm prices, pricing schedule and special conditions of tender**.**

2. **BACKGROUND**

   Johannesburg Water invites service providers to respond to a Request for Information to deliver a turnkey, fully integrated, Artificial Intelligence (AI)-enabled Advanced Security Technology Solution, including installation and maintenance support, across identified essential infrastructure sites.

   MANDATORY REQUIREMENTS

1.	PSIRA Registration Valid Certified company PSIRA registration certificate to be provided by the Supplier Or provide PSIRA registration number to be verified on the website
2.	SAIDSA Registration Valid certified annual Approved Service Provider Certificate with accredited membership number.
3.	The Supplier must be an Original Equipment Manufacturer (OEM) or a certified Partner of the proposed camera products OEM. The tenderer to provide the proof in a form of a letter on a company letterhead or a certificate that they are Original Equipment Manufacturer (OEM) or a certified Partner of the proposed camera products OEM.

3. **SCOPE OF WORK AND SPECIFICATIONS REQUIREMENT**

   The scope of work includes, but is not limited to, the following key components:

   6.1   Security Risk Assessment and System Design

   - Conduct detailed site assessments and risk analysis at all designated facilities.

- Develop site-specific security system designs.
- Produce engineering drawings, network layouts and integration plans.
- Submit system architecture for approval prior to implementation.
- Submit Health and Safety Plan and file

6.2 Supply of Equipment

The Contractor shall:

- Provide Control Room Equipment and Setup as per the specification.
- Provide Cameras and Access Cards as per the specification.
- Provide Support and Maintenance for a period of 12 months
- Provide Professional services as and when required.
- Supply only new, OEM-certified equipment.
- Ensure all equipment complies with the minimum technical specifications outlined in the tender.
- Ensure equipment is compliant with Open Network Video Interface Forum [ONVIF] and the required ONVIF Profiles:

  - Profile S – Live video streaming & PTZ control
  - Profile G – Edge recording & storage
  - Profile T – Advanced video & AI analytics
  - Profile M – Metadata & AI event sharing

    o   IP-rated for outdoor environments
    o   Vandal-resistant (IK10 where required)
- Provide product data sheets and compliance certificates.
- Ensure compatibility with JW's existing infrastructure where integration is required.
- Maintain sufficient stock of critical spare parts during the contract period.

6.3 Supply and Installation of Security Technologies

The Contractor shall:

supply and install:

- Thermal perimeter surveillance cameras.
- Dark Fighter ultra-low-light CCTV cameras.
- AI-enabled video analytics systems.

- Intrusion detection systems (perimeter sensors, beams, fence detection, radar where required).

- Smart alarm systems.

- Fixed and wearable panic button systems.

- Network infrastructure and supporting equipment.

- Control room integration components

- Power backup solutions (including UPS, inverters and/or solar where required).

- Ensure proper cabling, trenching and civil works where required.

- Ensure minimal operational disruption during installation.

- Integrate all systems into a unified command and control platform.

- Configure AI analytics and intrusion detection parameters.

- Ensure system redundancy and failover capability.

- Conduct system testing and calibration.

- Issue Certificate of Compliance for electrical work completed.

All equipment must be new, Original Equipment Manufacturer [OEM]-certified and compliant with minimum technical specifications

6.4   System Integration

- Integrate all installed technologies into a unified enterprise-wide command and control platform at Unified Command Centre [UCO] Security Control Room Nerve Centre

- Configure Artificial Intelligence analytics including behavioural detection and automated alerts.

- Ensure real-time monitoring capability.

- Enable incident management and reporting functionality.

- Ensure compatibility with existing JW systems where applicable.

6.5   Commissioning and Handover

The Contractor shall facilitate formal handover to JW upon completion

- Conduct full system functionality testing and quality assurance

- Perform end-to-end integration testing.

- Rectify any defects identified during testing.

- Provide commissioning certificates per site.

- Submit an asset register detailing all installed equipment.

- Provide system configuration documentation.
- Provide operating manuals and maintenance manuals.

6.6 Artificial Intelligence and System Configuration

The Contractor shall:

- Configure AI analytics including:
  - Human/vehicle classification
  - Line crossing detection
  - Behavioural analysis
  - Loitering detection
  - Intrusion alerts
- Ensure false alarm reduction optimisation.
- Configure predictive analytics where applicable.
- Ensure POPIA compliance in facial recognition implementation.
- Provide risk scoring and automated alert prioritisation configuration.

6.7 Cybersecurity Responsibilities

The Contractor shall:

- Ensure the system architecture incorporates cybersecurity best practices.
- Implement secure authentication protocols.
- Provide firewall and encryption configuration.
- Ensure secure remote access controls.
- Conduct vulnerability testing prior to commissioning.
- Provide cybersecurity compliance certification where applicable.

6.8 Maintenance and Support (12 Months)

The Contractor shall provide comprehensive maintenance for the full 12-month contract period, including:

6.8.1 Preventative Maintenance

- Quarterly inspections of all installed equipment.
- Firmware and software updates.
- Cleaning and calibration of cameras.

- Testing of intrusion detection systems.
- Testing of panic systems.
- Network performance testing.

6.8.2 Corrective Maintenance

- 24-hour response time for critical faults.
- 48-hour resolution target.
- Replacement of defective hardware.
- On-site technical support.
- Spare parts provision.

6.8.3 Service Level Agreement (SLA)

- Maintain minimum 99% system uptime.
- Provide escalation matrix.
- Submit monthly performance and incident reports.
- Provide root cause analysis for major system failures.

6.9 Training and Skills Transfer

The Contractor shall:

- Provide operator training for control room operators.
- Provide system administrator training.
- Provide basic maintenance training for JW IT technical staff.
- Provide refresher training annually.
- Supply training manuals and SOP documentation.
- Issue training attendance certificates.

6.10 Compliance and Legal Responsibilities

The Contractor shall:

- Comply with MFMA and SCM requirements.
- Ensure adherence to Occupational Health and Safety regulations.
- Ensure staff are properly vetted and certified.
- Maintain adequate insurance coverage.
- Ensure compliance with POPIA.

- Ensure compliance with all municipal by-laws and national regulations.

6.11 Reporting and Performance Monitoring

The Contractor shall:

- Submit monthly operational reports.
- Provide quarterly system performance reports.
- Provide annual system review and optimisation report.
- Maintain incident logs and audit trails.
- Cooperate with internal and external audits.

6.12 Risk and Continuity Management

The Contractor shall:

- Provide a disaster recovery plan.
- Ensure redundancy in system design.
- Provide backup power solutions where required.
- Maintain a business continuity plan for service support.
- Ensure no disruption during transition from existing infrastructure.

6.13 Warranty and Liability

The Contractor shall:

- Provide a minimum 12-month warranty on all equipment supplied.
- Replace defective equipment at no additional cost.
- Be liable for damages resulting from negligent installation or design failure.
- Maintain professional indemnity and public liability insurance.

6.14 Accountability

The Contractor shall remain fully accountable for:

- Performance of the system
- Meeting SLA requirements
- Compliance with technical specifications
- Delivering the full scope of work
- Ensuring operational sustainability for the duration of the contract

Table 1. − **CONTROL ROOM EQUIPMENT AND SETUP**

ITEM	DEVICE TYPE	DEVICE DISCRIPTION
1	DDS Control Room Server	DSS7016-S2 is a powerful surveillance system preloaded with Linux-optimized VMS software, which has high performance and scalability. It supports up to 2,000cameras, and this number can be larger with distribute deployment. It has a 3.5" chassis with up to 15 hot-swapping hard drives for center storage, providing a very powerful all-in-one solution for projects.
2	IP Surveillance Server, 4U Rackmount VMS, DVR, NVR, Storage Appliance, 36 Drive Bays, over 210TB Storage	• IP Surveillance Server, 4U Rackmount VMS, DVR, NVR, • Fully Compatible with Most Leading Surveillance Software Vendors • Up to 2x Intel Intel Xeon Scalable Processors 4th Generation and Intel Xeon Scalable Processors 5th Generation • Up to 16 DDR5 4800Mhz, 5600Mhz and 6400Mhz ECC Registered Memory Slots • Up to 36x 3.5 Hard Drives • 8 Port, 16 Port and 24 Port Port Broadcom RAID Controllers (Hardware RAID levels 0, 1, 5, 6, 10, 50, and 60) Raid Card • Supports 7x Intel Gigabit Ethernet Adaptors , Intel 10 Gigabit Ethernet Adaptors, PCI-Express I/O Cards and Intel 25/40/50 Gigabit Ethernet Adaptors PCI Express Expansion • Stores up to 720TB of data
3	HDD for Server	• 10TB/7200RPM/256M/SATA 6Gb/s/RV Sensor
4	Matrix Decoder, Video Wall Monitors x 9	• Standard 2.5U case, elegant appearance· • Plug-in board design, easy to use and maintain· • H.265/H.264/MJPEG/MPEG4/MPEG2 video • decoding· • Ultra-high decoding ability, up to 12 • Megapixels· 2ch HDMI and 2ch DVI-I input, support 4K collection(HDMI)· Support 1/4/9/16 display split· • Support audio, alarm, bi-directional talk, RS485· • Splicing screens control for • zoom/merge/roam/overlay· Support redundant power, stable and reliable

5	Switch for Server Cabinet	Two-layer network management PoE switch· Support IEEE802.3af, IEEE802.3at standard· Support spanning tree protocol STP/RSTP· Conform IEEE802.3, IEEE802.3u, IEEE802.3ab/z andIEEE802.3X standards· Support one-key recovery of IP address & user password
6	Desk Monitors	• 55 inch UHD 3840x2160 4K resolution Monitor • 16:9 aspect ratio • HDMI USB and AV inputs • Wi-Fi • Built in Android 6.0 module & Speakers
7	CCTV Workstation High End max 128+ Cameras	• Rackmount Workstation • Maximum 128 Channel Simultaneous Streaming • 1 x 1TB SSD Drive Included (OS) • 4 x HDMI Monitor Outputs • 16GB RAM DDR4 • 1 x DVDRW • Windows activated • Wired Keyboard and mouse
8	55-inch 4K Display - Video Wall Monitor	• UHD 4K display with resolution of 3840 x 2160 • Anti-glare and anti-blocking design to ensure smooth interaction • Dual OS capable - Android (default) and Windows (optional) • Quick response 20-point touch controls • Built-in Speakers • Wi-Fi and Bluetooth • Inputs: HDMI In HDMI 2.0 x 2 Audio In x 1
9	HDMI Cables for Monitors	15m HDMI Copper Plated Cable
10	Monitor Bracket	Hanging Bracket
11	Main Server Rack	Video Mount Products 19" Equipment Rack Enclosure with Pre-Loaded Shelves, Blanks, & Cooling Fans (27 RU)
12	Fly Lead Server Rack	CAT6 3M Fly Lead
13	Server Rack	Bruch Panel 1U
14	Control Room to Server	Network Point

		Room
15	Sundries	Conduit, Wall Plugs, truncking etc
16	Control Room	Setup and Programming Control Room
17	Multi-plugs	With power surge
18	Installation	Control Room Equipment Installation per
19	Training	• Provide operator training for control room operators. • Provide system administrator training. • Provide basic maintenance training for JW IT technical staff. • Provide refresher training annually. • Supply training manuals and SOP documentation. • Issue training attendance certificates
20	CCTV Workstation High End max 128+ Cameras	Rackmount Workstation Maximum 128 Channel Simultaneous Streaming 1 x 1TB SSD Drive Included (OS) 4 x HDMI Monitor Outputs 16GB RAM DDR4 1 x DVDRW Windows 11 not activated Wired Keyboard and mouse

Table 2. CCTV SECURITY SURVEILLANCE SYSTEM

ITEM	DEVICE TYPE	DEVICE DISCRIPTION
1	Normal NVR	NVR 32CH DHI-NVR5216-8P-4KS2E 320Mbpsinput, 16ch1080Pdecoding,max16IPCinput,H.265+&H.2

		64+2HDD, 1VGA&1HDMI,1RJ45(1000M),8PoE,2USB(1USB 3.0)Smart2.0, fisheyedewarp,facD5:D15edetection,ANPR,POS, P2P
2	AI NVR (FOR Facial Recognition and on Number plate Recognition)	16ch AI NVR, 1U, 8PoE, Audio, 2 HDD max 8TB each, IVS, POS, 1HDMI & 1VGA, 320Mbps (160Mbps AI mode), 100-240VAC
3	Cabinet for NVR	9U Swing Frame Wall Box. 600mm total depth; Includes fan, plastic 5 way power with 3m extension with 1 Tray
4	HDD for NVR	**HDD-WD-16TB** Western Digital Surveillance Hard Disk Drive: 16TB 3.5 SATA
5	**Inside camera**	**Dome Camera** 4MP,1/2.7"CMOS,ICR,WDR(120dB)H.265;H.264; H.264H;H.264B; MJPEG,4M(1~25/30fps)2.8mmfixedlens(3.6mm/6 mmoptional)IR50m, Alarm1/1,Audio1/1,Max.256GMicroSD,IP67,IK10D C12V/POESMD/Perimeter
6	**Outside camera**	**Bullet Outdoor Camera** > 1/2.8" 4 Megapixel progressive scan STARVIS™ CMOS > ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments > 25/30 fps@1080P (1920 × 1080) > WDR (120 dB), Day/Night (ICR), 3D DNR, AWB, AGC, BLC > Multiple network monitoring: Web viewer, CMS (DSS/PSS) & DMSS

		> 7 mm −35 mm motorized lens
		> 2/1 Alarm in/out, 1/1 audio in/out
		> Max. IR LEDs Length 120 m
		> Micro SD memory, IP67, IK10
7	Monitoring Camera	**PTZ camera outdoor** > 1/2.8" 4Megapixel STARVIS™ CMOS > 45x optical zoom > Starlight technology > Max. 50/60 fps@1080P > IR distance up to 250 m > Auto-tracking > Perimeter protection >IP based > Face detection > SMD Plus
8	Number Plate Recognition Access Camera	ANPR Camera - Deep Learning Algorithm, Built-in LED, Motorised Varifocal and software
9	Facial Recognition Access Camera	IPC-7 Series 4MP, 1/1.8"" CMOS image sensor, Low illuminance, high image definition · Max outputs 4MP (2688×1520)
10	Wireless Link from PTZ Pole to NVR	**Wireless Link Wireless** Standard: IEEE802.11 a/n/ac Frequency: 5GHz Wireless Range: ≥5km Wireless Speed: 867Mbps Test Data: ≥300Mbps Antenna Angle: H90° V90° Power Supply: 24V PoE (passive PoE)
11	Switch for Pole	8-Port PoE Switch (Unmanaged)

		> Layer two Hardened PoE switch
		> Supports PoE power management
		> MAC auto learning and aging, MAC address capacity is 8K
		> Conforms to IEEE802.3af and IEEE802.3at power supply standard. Port 1-2 supports Hi-PoE 60W power supply
		> Supports IEEE802.3, IEEE802.3u, IEEE802.3ab/z and IEEE802.3X standards
		> Wide working temperature design: -30°C~ 65°C
		> Supports dual power backup
12	Electronic Boom gates mechanism	**BOOM** 3M GENIUS RAPID ACCESS BARRIER M/S HOUSING P/C GREY WITH SILVER DOOR C/W CONTROL LOGIC & BOOM ARM & LED ROBOT ON CABINET INCL BATTERY BACK UP
13	Exit point at Boom	LOOP - 3M TO 4M
14	Front Door Entrance Mechanics Kit	MAG LOCK 600 LED OUTPUT ZL BRACKET MAG LOCK SP600 3.2A POWER STORE WITH BATTERY
15	Outside Camera Pole	6m Galvanised Pole - Power Coated, Outdoor Weather Proof Box 300mm x 450mm, installation included
16	Outside Camera Pole	12m Galvanised Pole - Power Coated, Outdoor Weather Proof Box 300mm x 450mm, installation included
17	Audio Speaker at PTZ or Fixed Bullet	15W Horn Speaker with 12V 5AMP Horn Power Supply
18	Access Rainshield	• Face Recognition Terminal Rainshield • Supports 341 and 342 models
19	Water-proof fingerprint	IP65

	and Mifare card reader	. RS485 and Wiegand communication
		. Support tamper switch
		. support fingerprint
		. support Mifare or ID card
		-support password
		. Support buzzer and indicator prompt
		. Support current and overvoltage protection
		. With a thin and elegant design
		. Dimension: 70 mm × 70 mm × 26 mm
		. Fingerprint recognition $time \leq 1.5S$
20	2 door 2 way access controller	2 door 2 way . 100,000 card holders . 500,000 records . Support OSDP . 5*RS485 ports . 4* Wiegand Ports . 6*Alarm input . 4* Alarm output (relay) CE/FCC/UL
21	*Infrared Exit Button*	*Stainless steel;* *IR detection, touchless exit;* *86*86*25mm;* *DC12V;* *-30°C-+60°C;*
22	Emergency Break Glass Button	Plastic; 86*86*50mm; -30°C-+60°C;
23	Network Cables	Camera Network point - Cable and Connectors
24	Sundries	Conduit, Wall Plugs, truncking ect
25	Onsite/ Control Room	Setup and Programming of AI Technologies to Control Room

26	Cat 5 Cable for installation	500 meters Cat5 Cable provides a bandwidth of up to100MHZ, and its speed can range from 10Mbps to maximum of 100 Mbps
27	Cat 6 Cables for installation	500 meters Cat6 cable provide infrastructure for Networks :10Base -T (Ethernet), 1000 BASE-T/1000BASE-TX (Gigabit Ethernet) and 10GBASE-T (10-Gigabit Ethernet
28	Proximity access card	Access card AIO
19	IP Thermal Dual Bullet	• Thermal Dual Lens Bullet Camera • Thermal Resolution 384x288 • 35mm Thermal Lens • Optical Resolution 4MP • 12.4mm Optical Lens • 100m IR Illumination • 12VDC & PoE • IP67 & IK10
20	IP Fisheye	• Fisheye Camera • 12MP Resolution • 10m IR Illumination • 2mm Fixed Lens • Heat-Mapping • IP67 • IK10
21	IP Thermal PTZ	• Thermal Dual Lens PT Camera • Max Resolution 384 X 288 • 50mm Fixed Lens • Alarm Inputs - 2 Alarm Outputs • 24 VAC or 60W PoE
22	LED Monitors for video wall 65"	• QM65C - Dynamic Crystal Color UHD Digital Signage for Business • QMC, slimmest display in Samsung's UHD Digital Signage, ultra-slim 28.5mm depth optimizes space. • Dynamic Crystal Color with over one billion shades. • Powered by Quantum Processor Lite 4K.

		• SmartView+ enables wireless screen sharing on your commercial display easy and functional.
23	Video Wall Controller,	4K 60Hz 4x4 HDMI Matrix, Multi-viewer All-In-One
24	Video Wall Mounting Brackets	• Full-Service Wall Mount for XXL Displays • Designed to wall mount 21:9 ultrawide signage displays • Universal design suitable for other extra-large screens over 80″ • Tool-less micro-adjustment of +/-7mm • Pop-out system provides a safe and easy service access • Straightforward 'hook-on' installation • Cable management clips included to keep the installation tidy • Ideal for recess mounting • Features depth, height and lateral micro-adjustment • Keyhole fixings on wall plates for an easier installation • Safety screws help prevent unauthorised removal of screens • All mounting hardware included • Suitable use with: Jupiter Pana105T, Avocor AVL-1050-T & Viewsonic IFP105S displays • Recommended screen size: 80" (203cm) up to 120″ (305cm) • Max load: 200kg (440lbs) • VESA® and non-VESA Fixings: up to 1600 x 800mm • Flat to wall depth: 146.5mm (5.7″) (+/-7.5mm with micro-adjustment) • Popped out depth: 338.5mm (13.3″) (+/-7.5mm with micro-adjustment) • Tool-less micro-adjustment: +/-7.5mm per corner • Colour (mounting rail): Black or Silver • Colour (VESA arms): Black
25	CCTV Junction enclosure, round/	Bullet Power Junction Box White • 20 or 25mm knockouts • ABS thermoplastic polymer • Colour: White

		• Dimensions: 115mm (L) x 115mm (W) x 48mm (H)
26	Network Video Recorder With built-in AI video analytics and Smart search Uninterrupted Power Supply 10 KW [UPS] /inverter	Facial Recognition Facial Detection and Analytics Face picture comparison, human face capture, face picture search Face Picture Library Up to 64 face picture libraries, with up to 500,000 face pictures in total (each picture ≤ 6 MB, total capacity ≤ 40 GB) Facial Detection and Analytics. Performance 16-ch 4 MP human face capture (HD network camera, up to 8 MP, H.264/H.265) Face Picture Comparison 32-ch face picture comparison alarm AI Open Platform Performance Live Video Analysis 16-ch for 4 MP resolution, or 8-ch for 8 MP resolution, support H.265+/H.265/H.264+/H.264 Auto-switch Video Analysis Up to 64-ch, support H.265+/H.265/H.264+/H.264, up to 8 MP resolution Scheduled Capture Analysis Up to 64ch, picture resolution up to 4096 × 4096, each picture size ≤ 8 MB, support GIF/JPEG/TIFF/PNG/BMP picture formats Offline Picture Analysis Each time upload up to 500 pictures, each picture size ≤ 2 MB, support GIF/JPEG/TIFF/PNG/BMP picture formats
26	High Surge Safe Power Protector	The surge protector to help cut out excess power, to keep equipment safe. *High surge protection * Built-in mains tester

27	Health and Safety Plan File	The health and safety file should include the following information:
		As-built drawings of the building and its systems.
		Details of any significant risks associated with the structure.
		Information on maintenance and cleaning procedures that may affect health and safety.
		Details of any hazardous materials used in the construction process.
		Emergency procedures and contact information for relevant personnel.
28	Certificate of Compliance [CoC	Issued by a licensed electrician, valid for two years.

Table 1   :   CCTV Security Surveillance Fiber equipment

ITEM	DEVICE TYPE
1	Solar 12v 100Ah Deep Cycle
2	Solar Panel
3	Wireless CCTV System Battery Boxes
4	Fibre Cable 500m
5	Air Fiber Long Range Wireless Link
6	2.5mm 3 Core Armoured Cable
7	Fibre Switches for Pole
8	12v Power Supply Excluding Battery
9	8 Core Multy Mode Patch Leads
10	GBIC Multy Mode

11	LC Multy Mode Pig Tails
12	LC to LC Multy Mode Patch Leads
13	8 Port Termination Box for Fibre
14	SC (SO/125) Duplex Patch Cord
15	40mm Heat Shrink Plice Protector
16	12v Batteries Gel

Table 2   :   Gate Motor

ITEM	DEVICE TYPE	DISCRIPTION
1	D10 Smart Centurion Gate Motor kit	Kit to Consists of: • Centurion Gate Motor D10 SMART 24VDC . • Centurion D10/ D20 SMART Base Plate • Securi-Prod Battery 12V 7.2Ah SLA x 2 • Steel Rack - 30 x10mm x 6m incl 4 x Angle • Brackets x 2
2	Centurion 12v Battery	• 12V 7.2AH Lead Acid Maintenance Free Battery
3	Gate Motor D10-D10T-D20 Smart Anti Tamper Bracket including Lock	• Secure theft-resistant motor bracket mechanism • Galvanised for long life • Easy assembly and installation • Integrated circular lock within protective casing • Including 2 x lock specific keys • Universal fit for D10 Smart D10 Turbo Smart and D20 Smart
4	Centurion Swing Gate Double	Includes: Kit, Operating Mounting, handwear, controller, wall box, charger, 7Ah battery, mains isolator, LED indicator Board, 2x4 Nova Button Tx

5	Vantage Swing Gate Motor Screened Cable 25m Roll	• 2 Core - 2mm • 4 Core - 0.5mm • Screened - 25m Roll • Compatible with the Vector and Vantage Range
6	Outdoor Maglock 544 kg.	• Stainless Steel Outdoor Maglock - 1200lbs (544kg) • Dual voltage: 12/24VDC • Current draw: 500/250mA • Lock type: Fail-safe • MOV surge protection • CE approved • Dimensions: 220mm (L) x 62mm (W) x 43mm (D)
7	Maglock Z & L Bracket	• ZL bracket for maglock
8	Relay -On-Board AC/DC	• 12v DC or 16v AC operation • Switching current rating 10A@ 12v DC • Normally open and closed potential free relay contacts • Back EMF protection
9	Securi-Prod Power Store13.6VDC 3Amp SAL	• Input voltage 100 - 240VAC at 50Hz • Output voltage: 12VDC 3Amp • Switch mode power supply • Includes moulded DC lead and SA plug top
10	Security Port Battery 12v	• Centralized management for one or more properties and complexes • Restricted remotes access for domestic gardening and security service • Missed-call access control • Integrated with Google Assistant and Google Home • Advanced open/close timers with public and school holiday features • Monitor gate and garage status battery voltage and power failures • Complete Log Reports • 12Vdc to 24Vdc @ 100mA • 4 inputs and 2 outputs • Energizer keypad data interface • NICE Cloud Link receiver interface
11	Swing Gate Motor Vantage Single 300 SMART Operator Kit	• 2x 300mm Swing Motor voltage 12VDC (battery-driven) (RGA17-2) • 1x Smart Controller (RGA20-2) • 1x Battery (BA13-2/ BA13-5 or BA08)

		• 250 Max number of operations a day • 250Kg Operator push force • Please add in CB81
12	Centurion Swing Gate Motor VANTAGE 12VDC Operator STD Speed 300mm	• Motor voltage 12VDC (battery-driven) • Battery backup • 250Kg Operator push force • 400mm Operator stroke • 250 Max number of operations a day • Operations on standby with 12V 7Ah battery x70 half day • Operations on standby with 12V 7Ah battery x58 full day • Manual override by key release

Table 4 : FARGO HDP5000 PRINTER ACCESSORIES

ITEM	DISCRIPTION
1	Fargo Colour Ribbon New Code. 84511
2	Fargo Retransfer Film New Code. 84500

Table 5 : ADDITIONAL ACCESS CONTROL EQUIPMENT

ITEM	ADDITIONAL ACCESS CONTROL EQUIPMENT	DISCRIPTION
1	Access Control Modules	
2	Flush Mount Electronic Claws Roadway Spikes Barriers Claws Spike System 3.0m Direct Drive Flush Mount	• 1 x Independent Flush-mount Drive mechanism Anti-corrosion chassis - hot dip galvanized mild steel • 85mm Mild steel electroplated and powder coated spikes

		• 12V DC Input voltage
		• On-board receiver
		• Supports output for robot interface
		• All moving parts are removable for easy maintenance
		• High-torque DC motor for greater reliability and responsive operation
		• External limit switches provide a failsafe operation
		• Independent Drive Surface Mount
		• 1 x Controller
		• Flush-mount Spike Modules
3	Battery - Remote 12V Alkaline GP PP27A 27x7.5mm	• Remote battery • Voltage: 12V Alkaline • Size: PP27A 27mm x 7 5mm

Table 6   :   COMPLETE INTRUDER DETECTION SYSTEM (IDS)

ITEM	DEVICE TYPE	DISCRIPTION
1	IDS 806 Wired Solution - Kit	806 Solution, 806 Control panel, LED keypad, 15w Siren, 24VDC power supply, 12v batt, Xwave2 wireless receiver, 2 x Door sensors, 2 x PIR Wireless sensors
2	IDS 806 Wireless Solution - Kit	• 1 x IDS 806 Control panel • 1 x IDS 8 Zone LED classic series keypad • 2 x IDS Motion Sense wireless indoor sensor • 1 x Siren 15W • 2 x Panic Button fixed - Glow in the dark • 2 x IDS DoorSense - White • 1 x IDS 24VDC power supply • 1 x IDS 12V 7AH Battery sealed lead acid • 1 x Xwave 2 Wireless Module
3	IDS X64 Wired Serial Solution - Kit	• XSeries Solution, X64 Control panel, • LCD keypad, 15w siren, 24DVC power supply, • 12v batt, 1 x Xwave • 2 bus wireless zone HUB, • 2 x DoorSense sensors,

		• 2 x panics, • 2 x PIR Wireless sensors
4	IDS X64 Wireless Serial Solution - Kit	• 1 x IDS X64 Panel PCB • 1 x XSeries LCD Curve keypad • 2 x IDS Motion Sense wireless indoor sensor • 1 x Siren 15W • 2 x Panic Button fixed - Glow in the dark • 2 x IDS DoorSense - White • 1 x IDS 24VDC power supply • 1 x IDS 12V 7AH Battery sealed lead acid • 1 x Xwave 2 Wireless zone HUB • 1 x Plastic Enclosure
5	Glue 50ml	• Clear all purpose adhesive • Ideally suited for sticking cables to walls or ceilings
6	Stranded - 8 Core BC White per 100m	• 0.2mm (24AWG) • solid copper cores • PVC insulated • 100 Meter
7	Ripcord - 0.5mm White / 100m BC	• 0.5mm (24AWG) stranded cores • 100 meters • White
8	Wireless Extender IDS	• Command delivery confirmation • Encryption with a modified AES algorithm • Code hopping frequency • Two modes: panic/control button • Protected from accidental activation • Operates with all Ajax Hubs and range extenders • Up to 1300m in an open space (in a perfect environment) • Operating frequencies - 868.0 - 868.6 MHz • Battery life of up to 5 years • Protection class: IP55 • Pre-installed CR2032 battery • Dimensions: 47 x 35 x 13mm
9	24v Power Supply 806 & XSeries	• 24VDC 1.5 Amps • Dedicated Power Supply for IDS 806 Alarm Panel

10	IDS 806 Wired Solution - Kit	• 1 x IDS 806 Control panel • 1 x IDS 8 Zone LED classic series keypad • 2 x IDS MotionSense wired indoor sensor • 1 x Siren 15W • 2 x Panic Button fixed - Glow in the dark • 2 x Magnetic switches - white • 1 x IDS 24VDC power supply • 1 x IDS 12V 7AH Battery sealed lead acid
11	PIR PMD85 Outdoor Wireless 2 Lens PA-3730	• Wireless Outdoor detector 11 x 11m • Impact and temperature resistant casing • Operates at 35 C to +50 C • Casing lined with an injected rubber gasket • UV protected lens • Dual Optical Filtering • System Multilevel sensitivity adjustment • Patented Digital Motion Detection • Dual optics (2 dual opposed element sensors) • Digital Dual Opposed Detection • Alive software (alarm LED continues to display when PIR is in energy • 3minute energy save mode after two detections within a five minute pe'

Table 7   :   Warning Sign CCTV

ITEM	TYPE	DISCRIPTION
1	1 Square Meter Warning Sign, Croma deck sheet,	• All the wording on the signage must be in colour as per the Johannesburg Water Corporate image/Logo. • Material: 3mm white matt CROMADECK SHEET with full colour vinyl direct UV print full colour • The size of the to be on Cromadeck sheet and laminate size 1000mm x1000mm [1 square meter] • The Cromadeck sheet to be bolted on the 100/100mm rust resistant square tubing stand.

		• It must be bolted an mounted on a metal stand of 3-meter-high steel frame. • The pole to be securely fixed with concrete in the ground [500 cm to go in the ground]. • The steel frame to primed and spray painted with dark-blue rust proof paint.	
2	Labour /Instillation Warning Sign		

4.   PRICE SCHEDULE

Table 1. – **CONTROL ROOM EQUIPMENT AND SETUP**

ITEM	DEVICE TYPE	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	DDS Control Room Server	1	
2	IP Surveillance Server, 4U Rackmount VMS, DVR, NVR, Storage Appliance, 36 Drive Bays, over 210TB Storage	1	
3	HDD for Server	1	
4	Matrix Decoder, Video Wall Monitors x 9	1	
5	Switch for Server Cabinet	1	
6	Desk Monitors	1	
7	CCTV Workstation High End max 128+ Cameras	1	
8	55-inch 4K Display - Video Wall Monitor	1	
8	HDMI Cables for Monitors	1	

9	Monitor Bracket	1	
10	Main Server Rack	1	
11	Fly Lead Server Rack	1	
12	Server Rack	1	
13	Control Room to Server Room	1	
14	Sundries	1	
15	Control Room	1	
16	Multi-plugs	1	
17	Installation	1	
18	Training	1	
19	CCTV Workstation High End max 128+ Cameras	1	

Table 2.   CCTV SECURITY SURVEILLANCE SYSTEM

ITEM	DEVICE TYPE	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	Normal NVR	1	
2	AI NVR (FOR Facial Recognition and on Number plate Recognition)	1	
3	Cabinet for NVR	1	
4	HDD for NVR	1	
5	Inside camera	1	
6	Outside camera	1	
7	Monitoring Camera	1	

8	Number Plate Recognition Access Camera	1	
9	Facial Recognition Access Camera	1	
10	Wireless Link from PTZ Pole to NVR	1	
11	Switch for Pole	1	
12	Electronic Boom gates mechanism	1	
13	Exit point at Boom	1	
14	Front Door Entrance Mechanics Kit	1	
15	Outside Camera Pole	1	
16	Outside Camera Pole	1	
17	Audio Speaker at PTZ or Fixed Bullet	1	
18	Access Rainshield	1	
19	Water-proof fingerprint and Mifare card reader	1	
20	2 door 2 way access controller	1	
21	*Infrared Exit Button*	1	
22	Emergency Break Glass Button	1	
23	Network Cables	1	
24	Sundries	1	
24	Onsite/ Control Room	1	
25	Cat 5 Cable for installation	1	
26	Cat 6 Cables for	1	

	installation		
27	Proximity access card	1	
28	IP Thermal Dual Bullet	1	
29	IP Fisheye	1	
30	IP Thermal PTZ	1	
31	LED Monitors for video wall 65"	1	
32	Video Wall Controller,	1	
33	Video Wall Mounting Brackets	1	
34	CCTV Junction enclosure, round/	1	
35	Network Video Recorder With built-in AI video analytics and Smart search Uninterrupted Power Supply 10 KW [UPS] /inverter	1	
36	High Surge Safe Power Protector	1	

Table 3   :   Warning Sign CCTV

ITEM	DISCRIPTION	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	1 Square Meter Warning Sign, Croma deck sheet,	1	
2	Labour /Instillation Warning Sign	1	

Table 4   :   Certification and Legislative Files

ITEM	DOCUMENT TYPE	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	Health and Safety Plan & File	1	
2	Certificate of Compliance (CoC)	1	

Table 5   :   CCTV Security Surveillance Fiber equipment

ITEM	DEVICE TYPE	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	Solar 12v 100Ah Deep Cycle	1	
2	Solar Panel	1	
3	Wireless CCTV System Battery Boxes	1	
4	Fibre Cable 500m	1	
5	Air Fiber Long Range Wireless Link	1	
6	2.5mm 3 Core Armoured Cable	1	
7	Fibre Switches for Pole	1	

8	12v Power Supply Excluding Battery	1	
9	8 Core Multy Mode Patch Leads	1	
10	GBIC Multy Mode	1	
11	LC Multy Mode Pig Tails	1	
12	LC to LC Multy Mode Patch Leads	1	
13	8 Port Termination Box for Fibre	1	
14	SC (SO/125) Duplex Patch Cord	1	
15	40mm Heat Shrink Plice Protector	1	
16	12v Batteries Gel	1	

Table 6   :   Gate Motor

ITEM	DEVICE TYPE	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	D10 Smart Centurion Gate Motor kit	1	
2	Centurion 12v Battery	1	
3	Gate Motor D10-D10T-D20 Smart Anti Tamper Bracket including Lock	1	
5	Centurion Swing Gate Double	1	
6	Vantage Swing Gate Motor Screened Cable 25m Roll	1	

7	Outdoor Maglock 544 kg.	1	
8	Maglock Z & L Bracket	1	
10	Relay -On-Board AC/DC	1	
11	Securi-Prod Power Store13.6VDC 3Amp SAL	1	
12	Security Port Battery 12v	1	
14	Swing Gate Motor Vantage Single 300 SMART Operator Kit	1	
15	Centurion Swing Gate Motor VANTAGE 12VDC Operator STD Speed 300mm	1	

Table 7   :   FARGO HDP5000 PRINTER ACCESSORIES

ITEM	DISCRIPTION	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	Fargo Colour Ribbon New Code. 84511	1	
2	Fargo Retransfer Film New Code. 84500	1	

Table 8   :   ADDITIONAL ACCESS CONTROL EQUIPMENT

ITEM	ADDITIONAL ACCESS CONTROL EQUIPMENT	QUANTITIES	UNIT PRICE [EXLUDING VAT]

1	Access Control Modules	1	
2	Flush Mount Electronic Claws Roadway Spikes Barriers Claws Spike System 3.0m Direct Drive Flush Mount	1	
3	Battery - Remote 12V Alkaline GP PP27A 27x7.5mm	1	

Table 9 : COMPLETE INTRUDER DETECTION SYSTEM (IDS)

ITEM	DEVICE TYPE	QUANTITIES	UNIT PRICE [EXLUDING VAT]
1	IDS 806 Wired Solution - Kit	1	
2	IDS 806 Wireless Solution - Kit	1	
3	IDS X64 Wired Serial Solution - Kit	1	
4	IDS X64 Wireless Serial Solution - Kit	1	
5	Glue 50ml	1	
6	Stranded - 8 Core BC White per 100m	1	

7	Ripcord - 0.5mm White / 100m BC	1	
8	Wireless Extender IDS	1	
9	24v Power Supply 806 & XSeries	1	
10	IDS 806 Wired Solution - Kit	1	
11	PIR PMD85 Outdoor Wireless 2 Lens PA-3730	1	