



## **TYGERVALLEY IMPROVEMENT DISTRICT NPC (TVID)**

**15 February 2018**

### **REQUEST FOR PROPOSALS: CCTV PROJECT**

#### **Introduction**

The Tyger Valley Improvement District (TVID) was established in 2016 after the Steering Committee took the initiative to seek solutions to the problems in the Tyger Valley area. Following the successful implementation of TVID as a Special Rating Area (SRA) the board has taken the initiative to extend the public safety operations to the next level by implementing a CCTV camera network. The proposed intervention will focus on supporting the current public safety and urban management activities thereby contributing to securing the area and driving incidents of property related crime down.

#### **Vision, Mission and Goals of the Tyger Valley Improvement District**

The vision of the TVID is to establish and maintain a safe, clean, well-managed area that attracts and retains business investment and business activities in the area.

It is the mission of the TVID to implement an urban management strategy to counter any urban degeneration of the area thereby creating a safe and attractive area.

#### **The Tyger Valley City Improvement District has the following goals:**

- Improve Public Safety significantly by proactive visible patrolling and cooperation with existing SAPS and City of Cape Town Law Enforcement efforts as well as other security service providers in the area.
- Creating a safe and clean public environment by addressing issues of maintenance and cleaning of streets, pavements and public spaces.
- Manage existing and new public infrastructure for the future benefit of all the users of the area.
- Protect property values.
- Attract new investment to the area.
- Support the promotion of the TVID Business area as a safe and clean environment by promoting greening, energy efficiency, recycling and risk/disaster management.
- Support and promote social responsibility in the area
- The sustained and effective management of the TVID area.

#### **TVID Area of Responsibility**

As per the map below





## **Aim of the CCTV Camera Project**

The aim of Phase 1 of the CCTV Camera project is to enhance the current public safety operations by implementing live surveillance of the public areas by means of a full-time monitored CCTV camera network.

For this purpose, the first phase will focus on the development and implementation of a communication WiFi network and 4 PTZ cameras (Phase 1). The implementation of additional PTZ and LPR (Licence Plate Recognition) cameras at key access points to the area will be considered in future phases of the project but **the wireless communication network must allow for this expansion for the outset.**

## **Detailed Specification**

A detailed specification of the wireless network and camera system follows at the end of this document, however respective bidders should consider the following aspects in addition to the wireless network and cameras:

The final identification of camera sites. This Request for Proposal include indicative camera positions, but it is recognised that final position may be adjusted to accommodate better visual coverage and/or wireless communication links.

1. The TVID will utilise their existing appointed Public Safety Service Provider for the live off-site monitoring of the CCTV camera footage feeds by suitably qualified and experienced camera operators in a suitably equipped control room. The current Public Safety Service Provider is Zonewatch Security located at 4 Camp Road, Maitland.
2. Therefore, the proposal should include the provision of the stable radio wireless link from the TVID high site (see detailed specification) including any recurring data and linkage costs to stream the footage to the Zonewatch Antenna on Maastricht on Tygerberg Hills from where the data will be relayed to the control/monitoring facility.
3. The proposal should also include the set-up of WIFI repeater nodes on buildings within the proposed camera sites to provide WIFI coverage.
4. The bidder must provide all the project management services required to liaise with the property owners and tenants wherever building mounted cameras, pole mounted cameras and the high site mast will be installed and is responsible for the payment and management of any and all sub-contractors that may be required to install the above infrastructure or establish electrical services to the equipment.
5. The bidder must also provide a cost for the routine maintenance of the network and cameras including the regular cleaning of camera domes.
6. Only well-known and proven industry standard equipment and cameras should be listed in the proposals and such equipment should carry appropriate warranties as most well-known brands provide.

The TVID management will only be responsible to initiate communication with the property owners initially and seek the in-principle permission from the property owner for the installation. All further liaison is the responsibility of the CCTV Camera service provider.



## Location of the cameras

The exact location and placement of the cameras will be finalised based on permissions from the property owners but the in-principle locations and coverage requirements are as follows:

### Phase 1

1. Site 1 – Building/wall mount at the Tygerburger Head Office on the corner of Bloemhof and Edward Streets.
2. Site 2 – Building/wall mount 100 Edward Street on Durban Road side to cover as much of the public area as possible.
3. Site 3 – Building/wall mount on the Spar Building at Tyger Manor overlooking the Intersection of Bill Bezuidenhout and Willie van Schoor.
4. Site 4 – Pole mount at the parking area close to Virgin Active Gym (Proposed solar installation)

### High site

The final location to be determined by the layout of the proposed wireless network and the communication needs to stream data to control/monitoring facility. As per the map it is proposed to install the high site on the Bloemhof Building to accommodate the backhaul link without interference to the antenna on Maastricht on Tygerberg Hills.



**TYGERVALLEY IMPROVEMENT DISTRICT (TVID)  
IP CCTV URBAN SURVEILLANCE SPECIFICATION**

**Supply and installation:**

1. WIFI network to stream and control PTZ IP cameras.
2. PTZ IP Cameras at strategic points either on buildings and/or poles.

**SPECIFICATIONS - SUPPLIED AND INSTALLED**

NB! Please see section on Final Scope of Works

MAIN HIGHSITE	QTY	PRICE
<b>MAIN HIGHSITE</b> - As part of the WIFI network a central high site is to be erected that will provide line of site to most camera locations. <b>The high site will be installed in a 100mm galvanised steel pole</b> mounted at a suitable location on the top of the Bloemhof Building at 112 Edward Street, Tygervalley.	1	
<b>NETWORK – WIFI BACKHAUL TO TYGERBERG HILLS</b>		
<b>1 x Network Control Box</b> <b>1 x Point to Point 5GHz AirFiber 5x link</b> <b>1 x Alignment &amp; Commissioning</b> <b>Electrical Installation</b> Network box, must have min 16 port POE network switch with min 35w per port, plug points, breaker, tamper switch and be remotely bootable off bandwidth. Cost should include design, civil work and installation. Use of POE injectors not recommended <b>Power surge protection must be provided</b>	1	
<b>WIFI Camera Links to High Site</b>		
<b>1 x Network Control Box</b> <b>1 x 5GHz Airmax PowerBeam AC Gen2 25dBi Point to Point WiFi link</b> Network box must have min 8 port POE network switch with min 35w per port, plug points, breaker, tamper switch and be remotely bootable off bandwidth. Use of POE injectors not recommended. <b>Power surge protection must be provided</b>	4	
<b>REPEATER SITE TWO DISH</b>		
<b>It is envisaged that Site 4 (Pole mount at Virgin Active) will require a repeater link to the high site via the site at Spar</b> <b>1 x Galvanised Pole &amp; Bracket</b> <b>1 x Network Control Box</b> <b>2 x 5GHz Airmax Powerbeam AC Gen2 25dBi CPE</b> <b>Electrical Installation</b> Network box must have min 8 port POE network switch with min 35w per port, plug points, breaker, tamper switch and be remotely bootable off bandwidth. Use of POE injectors not recommended. <b>Power surge protection must be provided</b>	1	
<b>CAMERAS</b>		
Hikvision DS-2DF8223I-AEL PTZ Camera	4	
Camera installation and commissioning	4	

<b>CAMERA MOUNTS</b>		
Building/wall mount, should be stainless steel	<b>3</b>	
Pole mount, poles to be concrete 9m with pedant mount brackets stainless steel Including Solar Installation	<b>1</b>	
<b>ELECTRICAL</b>		
Electrical installation to each camera Site with meter to monitor electrical usage.	<b>4</b>	
Electrical installation to high site	<b>1</b>	
1 x Solar Power system with back-up battery, installation and commissioning.	<b>1</b>	

### Final scope of works

Based in the final cost of the project the Board reserves the right to limit the scope of the project and implement only selected sites. Therefore, all proposals should set out costs per site in detail to enable cost analysis and selection of implementation per camera site. No global figures should be provided.

### Deadline for Proposals to the TVID Board

All proposals are to be forwarded to Gene Lohrentz of Geocentric by no later than 16:00 on Wednesday 28 February 2018. Proposals can be forwarded via email to [info@tvid.co.za](mailto:info@tvid.co.za). You may contact us on 083 255 7657 to arrange delivery of printed documents should you also want to submit a hard copy submission. No late submissions will be accepted. Please do not include company registration documents etc.

Once the Board has evaluated all the proposals, a decision will be made on the successful service provider. The decision of the Board is final and no further correspondence regarding the proposal will be entered into once the successful service provider has been appointed. The Board is under no obligation to qualify its decisions to any of the applicants.

All costs related to the submission of this proposal must be borne by the relevant applicants/companies/service providers and they shall have **no claim** for cost recovery to the Board and or its representatives whatsoever.

Yours sincerely,

**Gene Lohrentz**

CEO - Geocentric

On behalf of the Tygervalley Improvement District



Appointed Urban Management Company to the Tygervalley Improvement District