



**TYGERVALLEY IMPROVEMENT DISTRICT NPC (TVID)
2016/244690/08**

May 2022

REQUEST FOR PROPOSAL (RFP): CCTV EXTENTION PROJECT – INSTALLATION OF CCTV ADDITIONAL CAMERAS AND WIFI NETWORK

Introduction

The Tyger Valley Improvement District (TVID) was established in 2016 after the Steering Committee took the initiative to seek solutions to the urban challenges 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

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

Vision

In partnership with the city, we will continue to work toward the economic upliftment of the area by maintaining a level of safety and cleanliness to promote the use of and investment in the area for both the retail, office, and residential sector.

Mission

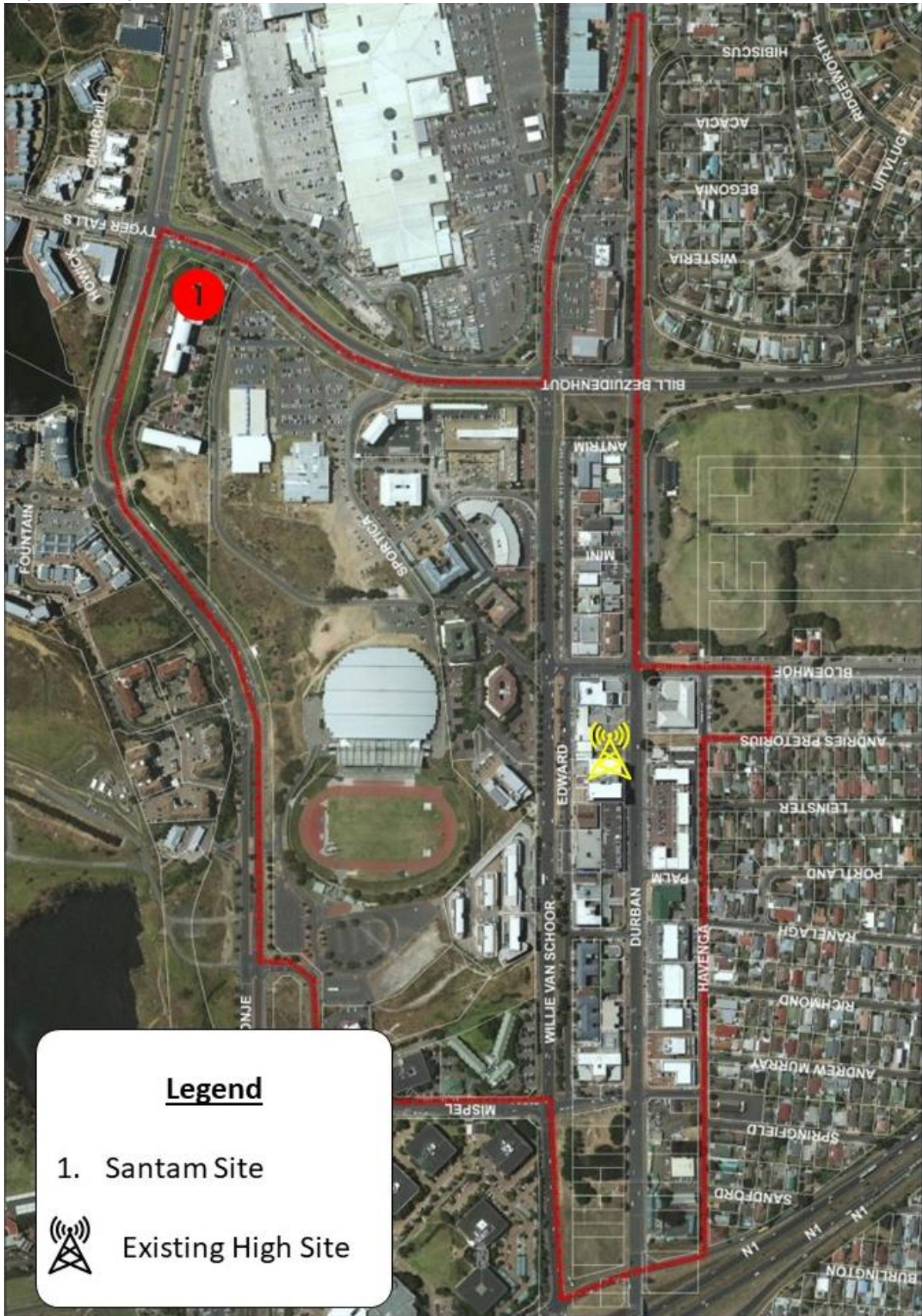
To continue to assist with the revitalisation, promotion and urban management and provide an environment that is safe, clean and provides visitors and the Tyger Valley community with a pleasant shopping, working, and living experience by topping up those services provided by the city.

The Tyger Valley Improvement District has the following goals:

- To attract shoppers and businesses to the area.
- To attract new investors and investment into the area.
- To encourage the maintenance and upgrading of private properties and public spaces in the area.
- To assist with the management and solution to the issues of people living on the streets of Tyger Valley.

TVID Area of Responsibility

As per the map below



Aim of the CCTV Camera Project

The aim of this phase of the CCTV Camera project is to enhance the current public safety operations by implementing additional surveillance of the public areas.

It is important to note that the TVID already enjoy the benefit of a network of PTZ, AI and LPR cameras as indicated on the map above.

For this purpose, this phase will focus on the deployment of additional PTZ, AI and LPR (Licence Plate Recognition) cameras at key access points to the area.

Request for Proposal

The RFP will focus on the installation of additional cameras, and communication network where required.

CCTV Camera and Wi-Fi Network Specification

This RFP requires suitably qualified companies to submit a proposal for the provision, installation and commissioning of additional cameras and Wi-Fi infrastructure.

Camera Summary

The following table summarises envisaged CCTV cameras for the TVID area for this phase of the project. Please note that the final number of cameras may vary from the numbers noted in the table and therefore proposers should, as requested, provide quotations on “per camera” basis as far as possible.

Table 1 – Provisional Summary of TVID cameras

Camera Type	Quantity	Comments
PTZ	2 – Planned	Per Camera Implementation Fee to be supplied
Static Cameras AI	2 - Planned	Per Camera Implementation Fee to be supplied with any additional fees for cameras with analytics capability to be quoted separately

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. Each camera site should be **quoted for individually** as the Board may elect to install only certain cameras during this phase of the project.
2. 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-principal 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-principal locations and coverage requirements are as follows:

Phase 1

Camera Site	Camera Type		Camera View
	PTZ	Ai	
Santam	1	1	Dark Fighter Corner mount, AI facing intersection
Santam	1	1	Overlooking car park and Sportica Crescent

TYGERVALLEY IMPROVEMENT DISTRICT (TVID)

IP CCTV URBAN SURVEILLANCE SPECIFICATION

Supply and installation:

1. Additional WIFI network to stream and control PTZ IP cameras linked to the high site.
2. Additional PTZ IP Cameras at strategic points either on buildings and/or poles.
3. Additional Static IP AI and LPR 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
MAIN HIGHSITE – N/A
W-IFI network
<p>1 x Network Control Box 1 x 5GHz Airmax Power Beam AC Gen2 25dBi Point to Point WIFI link OR MikroTik's RB-LHG60 high-speed 60GHz CPE unit point to point. Where necessary point to multi point must be used. Specify in your quote. 1x POE managed switch that can power both dish and camera configuration a min 150w. Use of POE injectors will not be allowed. Also note no Wi-Fi links will be done back to the Hi site, so existing Wi-Fi points must be used. Where required Hikvision 4MP outdoor PTZ powered by Darkfighter technology will be used. 5-inch 4 MP 25X Powered by DarkFighter IR Network Speed Dome 1/2.8" Progressive Scan CMOS High quality imaging with 4 MP resolution Excellent low-light performance with powered-by-DarkFighter technology 25x optical zoom and 16x digital zoom provides close views over expansive areas WDR, HLC, BLC, 3D DNR, defog, regional exposure, regional focus Expansive night view with up to 150 m IR distance 24 VAC & PoE (802.3at) Efficient H.265+/H.265 compression technology</p> <p>Network Control Box The Network Control Box should allow the Control box for remote monitoring of power and capability of restarting the site remotely (switching power off and on). And will consist of 2x Scami enclosure IP66(460x380x180 & 110x150x80), 2x 4x4 double plugs, 20a Circuit Breaker. And a Single-Phase Kwh meter. 2.5mm house wire will be used for the wiring of the plugs and electrical</p>

equipment. The equipment must be mounted on a dense wood backing(300X420X16) inside the large Scami enclosure. The din rail is 150 in length.
Also, only solid core copper CAT5 UV resistant FTP cable and FTP connector will be used for network and camera wiring.

CONDUITING

Only Bosal conduit 20mm or 25mm will be used for any outdoor installations. Also, the Bosal will be fastened with hospital saddles. Where required all holes drilled will be sealed. All internal work will be done with PVC conduit/trunking.

CAMERAS

PTZ IP Dome Camera, min 2MP, Full HD - Hikvision or Dahua preferred
Outdoor 2-MP 25X Network IR PTZ Camera. 1/2.8" Progressive Scan CMOS; 3D intelligent positioning function; Up to 150m IR distance; Audio & Alarm I/O's; DWDR; IR cut filter; Support up to 128GB Micro SD card slot; Hi-PoE / 24VA

Static LPR IP Camera, min 2MP, Full HD - Hikvision preferred
We prefer using a Smart ANPR Network Camera. Motorized 8-32mm lens with Smart Focus; ANPR Software Loaded; Up to 100m IR range; WDR; Audio/Alarm IO's; Support vehicle direction notification; Support SD/SDXC Card; IP67

Static AI IP Camera, min 2MP, Full HD- Hikvision preferred
We prefer using a Acusense IP bullet camera.2,8mm 4MP full HD lens. Powered by Darkfighter technology. Built in audio speaker and strobe.IR range up to 60m. Support SD/SDXC Card.

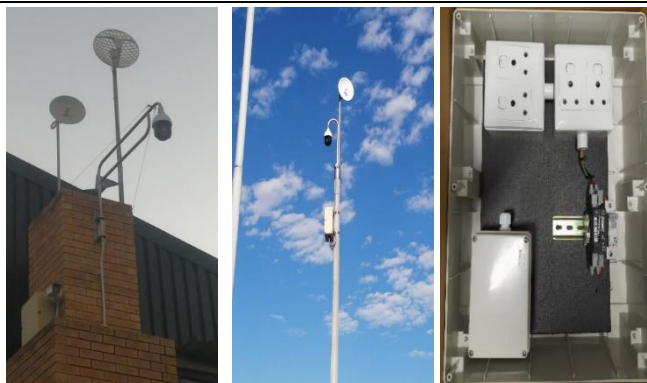
Camera installation and commissioning

Commissioning off camera and Wi-Fi system will be done by Geocentric after completion of the install. Once all systems are functioning as required will sign off be done.

CAMERA MOUNTS

Building/wall mount PTZ Brackets, should be stainless steel - see example photos below. And Hikvision Junction boxes will be used for building/wall mount static cameras. The prescribed water resistant ethernet connector will be used on all camera connections and sealed with self-fusing tape.

Pole mount, poles to be concrete 9m with pedant mount brackets stainless steel



ELECTRICAL NEW INSTALLATIONS

Electrical installation to each camera Site with meter to monitor electrical usage. All

Electrical connections to the Network Control Box, must be done from a DB Board with a resolute 20A CB (clearly marked). Also, a C.O.C must be produced after the installation.

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 the Tygervalley Improvement District by no later than **16:00 on Friday 13 May 2022**. Proposals can be forwarded via email to rfp@tvid.co.za. All questions should be directed to the management of the TVID via email to rfp@tvid.co.za. No late submissions will be accepted. Please do not include company registration documents etc.

The site visit will be held on **Friday 6 May 2022 from 11:00 to 12:00**, all parties meet at the **Tygervalley Improvement District Office at 102 Edward Street, Omni Park, Tygervalley, Cape Town, 7530**.

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,

Tygervalley Improvement District