

1. Firstly, to aid in our design and pricing, could you please provide a detailed site plan or perimeter fencing layout drawing? Ideally, this would indicate:

- **The exact 3km perimeter line.**
See attached intended fence line below:



- **The specific 1.5km section was intended for the 50% electric fence variation.**
The scope is for full electric fence, there is no inclusion for a 50%
- **Locations of existing services, buildings, and potential obstructions.**
Will request from internal Property department and share if available.
- **Designated areas for PTZ camera placement (particularly the Kwazakele boundary) and other key infrastructure.**
Please refer to section 2.3 in the Works Information as well as the below: PTZ cameras should strategically placed in all areas below the red dashed line:



- **Proposed or existing locations for all pedestrian and vehicle gates.**
- **The location of the security control room or the intended area for its setup.**
- **Potential mains power connection points.**

Further to this, we have the following specific questions:

2. **Network Infrastructure (Ref. Annex A, Sec 2.4):**

Section 2.4 states, "Network connectivity for remote viewing and monitoring must be established."

- **Does the scope require the contractor to install the complete Local Area Network (LAN) for all security systems (cameras, sensors, etc.) connecting back to the control room?**

Transnet does not have this infrastructure available; the supplier will have to price for this as part of the project.

- **If off-site remote viewing is a requirement, will Transnet provide the Wide Area Network (WAN)/internet connection point, or is the contractor responsible for sourcing this? What are the minimum bandwidth requirements?**

For Security purposes and due to the current infrastructure challenges on our network, the supplier will have to provide this network (Which will only be used by this security system). The bandwidth should be matched to the requirements of the system. The cost of this should be a once-off and not a monthly subscription preferably.

3. Camera Placement and Specifications (Ref. Annex A, Sec 2.3 & 4.3):

"Installation of PTZ and fixed CCTV cameras at strategic intervals along the fence with minimum 900m visuals."

- **Could you provide more specific guidance on what constitutes "strategic intervals"? Is there a maximum distance between camera poles, or a minimum number of PTZ versus fixed cameras anticipated?**

A maximum distance of 6 meters was specified

- **Section 2.3 states, "PTZs shall only be allowed for the area of the depot adjacent to Kwazakele Informal Settlement." Does this mean PTZs are exclusively for this area, with fixed cameras for all other "strategic intervals"?**

This is correct

The Activity Schedule (C2.2) lists "PTZ cameras" and "fixed motion detection cameras" as single sum items.

- **To allow for accurate pricing, could Transnet provide an estimated quantity for these camera types, or confirm if the tender should propose quantities based on their design to meet coverage requirements outlined?**
- **Are there any preferred makes/models or more detailed minimum specifications for cameras (e.g., specific night vision range in meters, sensor type/size, specific IP rating like IP66/67)?**

Tenderer propose this based on the specification of these cameras provided to cover the areas not covered by PTZs. No area should be blind to security personnel.
No preference in terms of make or model , if they meet the required specification as stated in section 4.3 of the works information. IP rating should be the highest one available for items installed externally.

4. Power Supply (Ref. Annex A, Sec 2.3 & 2.4):

While camera poles are specified to have standalone solar power, Section 2.4 mentions "Backup power (battery and/or generator) must be supplied" for the overall fence and surveillance system.

- **For the main energizers and control room equipment, what is the existing mains power availability at the proposed connection points?**

See layout for main electrical kiosks from which power can be taken

- **What is the expected minimum autonomy (duration) for the backup power (battery and/or generator) for these central systems? If a generator is required, are there specific output or fuel type requirements?**

No generator, but a battery backup of 8 hours is required.

Control Room (Ref. Annex A, Sec 2.3 & 4.3):

- **Is there an existing security control room that will house the new monitoring equipment (workstation, displays as per Sec 4.3)? If so, can details of available space, existing power, and network termination points be provided? If not, does the scope include the construction or refurbishment of such a facility?**

There is electrical power, the supplier will only be responsible for the installation of said components. No refurbishment expected.

5. Anti-Burrow Fencing (Ref. Annex B, C2.2 Activity Schedule, Item 13):

Item 13 specifies "AntiBurrow Fence Installation - 450mm Deep (Minimum 19MPa >28 Days)". Could you please clarify the required width and any reinforcement specifications (e.g., rebar, mesh) for this concrete anti-burrow measure? See below Full Detail on Anti Burrow:

Component	Minimum Specification
Depth	450 mm below natural ground level
Thickness	150 mm minimum
Reinforcement	Light mesh (e.g., A142 or Y10 bars), 300mm c/c
Width	In Between Posts
Top Finish	Should tie into post concrete footing or be poured monolithically if possible