

Specifications for Production Facilities for NC Bioprospecting hub project (Eiland)

1 Scope of work

To supply and install a security system as described below at Die Eiland experimental farm (Upington).

NB: There will be a compulsory site briefing to finalize the specifications.

2 Location of site where the structure will be erected

Die Eiland Experimental Farm, Upington, Northern Cape

3 Security systems

- Supply and install a surveillance camera with a memory card and cellphone connectivity. To be installed where the pumps, automated irrigation system, and tanks will be.
- **Powered by electricity (10 meter cable from the source), with solar panel for back-up**
- **Features:** Human Motion Tracking, 30m NIGHT VISION, Motion Detection, Waterproof / Weatherproof, Built-in Siren, PAN-TILT, Two-way Audio,
- Supply and install laser beam sensors around the structures (number = 8)

Features: 30 Detection Range, Motion Sensor Control, solar powered, Wireless, with an alarm

- **Laser Infrared Vision:** Equipped with advanced laser infrared lamps, the camera provides exceptional night vision, ensuring visibility even in complete darkness.
- **Dual-Lens System:** Switch effortlessly between a wide-angle lens for a broad view and a PTZ zoom lens for detailed inspection. Dual views can be monitored simultaneously via the app.
- **6MP HD Image Quality:** Enjoy high-definition clarity with 6MP resolution, capturing every detail and images.
- **Solar Power (back up):** Harness the power of the sun with the included 10W monocrystalline silicon solar panel, ensuring uninterrupted power supply and eliminating the need for frequent charging.
- **20000mAh Battery:** The built-in lithium battery can easily power the camera for 3-4 days without sunlight.
- **Advanced Detection Sensor:** The larger detection sensor offers enhanced sensitivity, ensuring accurate movement detection and minimizing false alarms.
- **Pan-Tilt-Zoom (PTZ) Capability:** With a 355° horizontal and 90° vertical rotation, the camera covers a wide area, ensuring comprehensive surveillance with no blind spots.
- **Link Alarm & Human Tracking:** The camera wakes up instantly upon detecting a person, tracking their movements for recording and sending real-time alerts to your app.
- **Two-Way Audio:** Communicate directly through the camera with the built-in microphone and speaker, perfect for greeting visitors or warning off intruders.
- **Preset Points & Guards:** Set predefined points to quickly view important areas, ensuring efficient monitoring of multiple zones.

- **Multiple Installation Methods:** Choose between integrated or extended installation with a 5M extend cable option to suit your setup requirements.
- **Color & Laser Infrared Vision:** Switch between color night vision, infrared night vision, and laser infrared vision to capture clear images in various lighting conditions.
- **IP67 Waterproof Rating:** The camera is waterproof and dustproof, making it resilient against rain, snow, and extreme sun exposure, ensuring continuous operation in all weather conditions.
- **Multiple Storage Options:** Store recordings securely with support for TF card (up to 128GB) and cloud storage, ensuring that important footage is always backed up and accessible.
- **Steel Construction:** Built with a robust steel housing, not plastic, to withstand tampering and harsh environmental conditions, ensuring long-lasting durability.
- **Detection Ranges:** Overall visibility of 500-1000 meters and motion detection range of 10-15 meters.
- **Alarm Activation:** Equipped with an alarm that activates upon motion detection, enhancing security by deterring potential intruders.
- **Ubox App Compatibility:** Compatible with the Ubox App on smartphones, allowing live feed and playback viewing, and device sharing with multiple users.
- **IR Night Vision:** 100-200 meter IR night vision for clear visibility in low-light conditions.