

**GUIDELINES FOR THE DESIGN, SUPPLY, AND INSTALLATION OF AN ELECTRONIC SURVEILLANCE AND ACCESS CONTROL SYSTEM AT THE DEPARTMENT OF MINERAL RESOURCES AND ENERGY CAPE TOWN REGIONAL OFFICE**

1. The installation will include the following critical infrastructure:

Item description	Quantity
<b>High-Definition IP Dome cameras (4K)</b>	26
<b>High-Definition IP Bullet camera (Outdoor Camera)</b>	01
<b>Network Video Recorder/s</b> (16 Channel NVR 6TB HDD).	02
<b>40-inch LED surveillance monitors</b>	02
<b>Access controlled doors</b> to be equipped with <u>biometric readers</u> ( <b>reader in and reader out</b> ) with full POE compatibility, magnetic lock sets, door closers, emergency break-glass exit units, door status monitors, etc.	10 Doors
<b>Access controlled doors</b> to be equipped with <u>biometric reader in and button out</u> (no touch button). with full POE compatibility,	04 doors
<b>Emergency door equipment</b>	06 doors
<b>4U Server Rack</b>	01
Mifare DESfire EV2/EV3 Cards	100
Access Card Printer compatible with the Access Control Solution including Access Cards to be supplied	01
Manual Override Key Switch	02
<b>Client PC</b> (Operators' workstation) 17" LED monitor, Gen10 2.3GHz 16-cores, 32 GB upgradable, 5TB Storage pre-installed with Windows10 Operating System, Surveillance software with license and a licensed MacAfee anti-virus	01
<b>Client PC</b> (Access Control/Security Administrator's workstation pre-installed with Windows10) 19-inch LED monitor, i7, 16GB upgradable with 1TB HDD, pre-installed with Windows 10 Operating System, Access	01

Control and Surveillance software with license (cards and biometric) and a licensed MacAfee anti-virus.	
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**NB:**

- **The rest of the equipment/components/units/accessories and other sundries required or necessary for delivering a complete and functional integrated Surveillance and Access Control system will be determined, supplied and installed according to the design architecture and Manufacturer's standards.**
  
- **ALL network and electrical cabling will be supplied and installed in compliance with relevant standards, i.e Pure Copper CAT 6 cable, Mylar Shielded Cable. The system will run on its own dedicated network that must be designed and installed by the successful service provider; it will NOT be integrated into the Department's IT infrastructure.**
  
- **An architectural network design of the of the system should be provided with all the information such as, IP addresses, Floors , card readers, cctv surveillance cameras and all other equipment to be installed to be indicated on the design plan.**