

SPECIFICATION FOR THE SUPPLY, INSTALLATION AND COMMISSIONING OF ALARM SYSTEM FOR SECURITY DEPARTMENT IN THE PORT OF RICHARDS BAY.

Supply and install the following (It is to supply, install and commissioning of alarm system with 12-month serviceability)

1. Radio Specification:
 - 1.1. GSM SMS Module, wireless
2. Control panel:
 - 2.1 (type to be determined by schedule)
3. Intercom System :
 - 3.1 video intercom
4. Door release buttons
 - 4.1. Touch free Internal Door release button
5. PIR Sensors
 - 5.1. Indoor sensors/ microwave sensors
6. Sound alarm/siren
 - 6.1. Internal and external siren
7. Door and windows sensors
 - 7.1. Magnetic door contacts and window beams
8. Panic buttons
 - 8.1. Fixed and remote
9. Strobe Lights
 - 9.1. Red strobe light to indicate activation of alarm
10. Quantities Schedule
 - 10.1. Building

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Building	Keypad	PIR	SIREN	Strobe Light	Door Maglock	Door Contacts	Panic button		Video intercom	Guard 500m Receivers	Beams
							Fixed	Mobile			
Bayview admin	4	21	3	4	0	16	7	3	-	-	-
IMS	1	7	1	1	0	6	1	1	1	-	-
HR	1	13	1	2	0	4	2	1	1	-	-

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DETAILS OF WORK

1. To do a site survey of the required areas and submit a proposal on a solution for TNPA Port of Richards Bay, or a maximum of two different solution systems;
2. System will include the following Sites:
 - 2.1. Bayview Admin
 - 2.2. ITC Building
 - 2.3. HR Building
 - 2.4. Security Maintenance
3. The selected system decided on by TNPA Security will then be supplied, installed, commissioned, and maintained by the supplier for three months to confirm the system is functioning as intended and all faults are resolved prior to TNPA accepting the system.
4. 15% of the Final Quote will be retained until final handover;
5. The service provider will also be responsible for training of all TNPA Security staff on the operation of the system consisting of three sessions totalling 24 hours. On completion of the training a certificate of completion must be awarded. (Colour paper)
6. The service provider will during installation and post installation 3 months of maintaining the system do skills transfer to TNPA maintenance staff or maintaining, trouble shooting and repairing the system.
7. The service provider will give a guarantee/warranty of 12 months on all parts of the system supplied.
8. The system must have capability to link back to or send messages to specific cell phones
9. To supply, install and commission intrusion detection system.
 - 9.1. GSM SMS Module
 - 9.1.1. To cover all areas and building of the Port with a strong enough signal back to the security control room
 - 9.2. Control Panel for building
 - 9.2.1. The intruder detection system must cover all vulnerable areas and be able to arm and disarm giving the end user a sufficient Entry and Exit delay period. The system must also be able to load a minimum of twenty end users.
 - 9.3. Fixed panic buttons
 - 9.3.1. Securely and professionally installed at a mounting height of fifteen hundred millimetres off the ground
 - 9.4. Mobile panic button
 - 9.4.1. At least 1200mm off the ground
 - 9.5. Strobe lights (white colour) when alarm activated

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- 9.6. Magnetic doors and window contacts
 - 9.6.1. Must be of superior quality
- 9.7. Video intercom with door control facility;
 - 9.7.1. Must be controlled from the receptionist desk have intercom and colour video picture and linked to the door opening button
- 9.8. Door release buttons;
 - 9.8.1. Linked back and secured to reception desk
- 9.9. Internal siren
 - 9.9.1. 15watt or 30watt
 - 9.9.2. Must be situated away from work stations where it can impact persons but effective enough
- 10. Perimeter Beams
 - 10.1. Prevent persons crossing a high risk area
 - 10.2. Linked back to the control room
- 11. All alarms signal to be monitored at the CCTV control room.
- 12. **GPRS, SMS**
 - 12.1.1. A GPRS/SMS transceiver operates on the 12V DC alarm supply backup battery. Connection to the transceiver from the alarm panel is via individual trigger, serial port or CID PTSN connection.
 - 12.1.2. It is important to use 0.5mm cable for the DC supply and to connect directly to the battery terminals.
 - 12.1.3. The unit must be placed away from the alarm panel and peripheral devices, where its signal strength will be at an optimal signal level.
- Control room installation requirements**
 - 12.1.4. The GPRS/SMS base must have an adequate antenna that will provide an uninterrupted
 - 12.1.5. Connection to the GSM network. Dual network paths can be used for additional network integrity.
 - 12.1.6. One (1) Control Room software required for monitoring of all sites from the Main Control Room. A computer would be supplied by Transnet National Ports Authority (TNPA).
- 13. **ICASA**

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13.1.1. Regulatory Compliance with The Independent Communications Authority Of South Africa (ICASA)

13.1.2. ICASA's mandate is explained in the Electronic Communications Act for the licensing and regulation of electronic communications and broadcasting services, and by the Postal Services Act for the regulation of the postal sector

13.1.3. Enabling legislation also empowers ICASA to monitor licensee compliance with license terms and conditions, develop regulations for the three sectors, plan and manage the radio frequency spectrum as well as protect consumers of these services.

14. Service warranty is to be provided for 12 months.