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1 Overview and purpose of the goods and services

This document provides an overview of the requirements for the design, supply, installation and commissioning of an Security Monitoring System at Eskom RoteK Industries sites for the duration of 36 months at Duvha, Tutuka Power Station, 24 months at Kriel Power Station and 12 months at Kusile Power Station. The Security Monitoring System may be an integration of the CCTV system, intruder detection

Logistics and Delivery to Site

All the test certificates and other supporting documents related to the electrical fence and security monitoring system must be made available. Eskom quality management QM58 must be adhered to

All Equipment/ material shall be protected as the case may be, carriage at site and outdoor storage during transit and at the site, strictly according to the instructions given in this specification. The supplier shall be responsible for any damage to the equipment during delivering Bundled materials shall be strapped rigidly with steel band over the protective covering. Fragile materials shall be securely braced within the containers or otherwise amply fastened and packed to prevent shifting or rattling. Soft non-hygroscopic packing materials shall be placed between the hard packing materials and the fragile equipment. All camera, server system, beams shall be protected for the entire period of dispatch, The cable drums shall be transported from factory to project site with a release inspection from the client.


2 Specification and description of the goods

	Duvha for 36 months		
1	Preliminaries and General	Item	3
2	72m x 55m electric fence inspection, repair and COC	Item	3
3	8 x dual zone sensor beam	Item	3
4	16 channel network video recorder with space to store footage for 3 months	Item	3
5	Dahua camera system with 4 cameras in the cable yard	Item	3
6	Alarm System	Item	3
7	Monitor 22" LED with HDMI	Item	3
8	Electric Fence Inspection 62m X 55m	Item	3
	16 channel network video recorder with space to store footage for 3 months	Item	3
	Tutuka for 36 months		
10	Night & day vision bullet camera	ea	12

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11	Dome cameras to be installed	ea	10
12	1x16 channel Network Video Recorder (NVR)	ea	1
13	5x5m Metal pole that will mount & run inside	ea	18
14	Storage for 5 months with 15 TB hard drive	ea	8
15	Cat6 cable 500m	ea	2
16	Sundries,travel,labour,camera boxes,RJ45 plugs,connector boots,etc	ea	3
	Kriel for 24 months		
17	Alarm Monitoring System and Radio	ea	28
18	Sundries,travel etc	ea	1
	Kusile for 12 months		
19	16 Channel DVR including 5TB HDD	ea	1
20	Sim Card	sum	1
21	Air Time (20GB per month)	sum	12
22	CMOS 420TVL 6mm Lens Metal Material Colour Infrared Camera with 36 LED, IR Distance: 20m	ea	8
23	Cabling to support the above including all connectors and adaptors (each camera is 40 Meters from the DVR position)	Meters	400
24	Installation Cost	sum	1
25	Interconnect with Alarm System	sum	1
26	Medical Cost	ea	4
27	Safety File	sum	1
28	Transport	Provisional Sum (Km)	1000
29	Site Specific costs	Provisional sum (Proven to a maximum of)	1

2.1 Procedure for submission and acceptance of *Supplier's* design

Details of all the security monitoring system designs and or catalogue shall be submitted to the Engineer/Project Manager for acceptance before manufacturing. Drawing practice, formats, title blocks, and numbering must conform to the standards applicable for the Project and are to be agreed between the supplier and the Project Manager during a kick-off meeting. Proposals are submitted to the Engineer/Project Manager for review and acceptance.


2.2 Other requirements of the *Supplier's* design

The manufacturing of power cable shall be in strict accordance with the law, SANS 10400, SANS 10142, SANS 60335-2-76. The Suppliers designs must also adhere to below standard and specifications

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- ISO 9001 Quality Management Systems.
- 240-102220945 Specification for Integrated Access Control System for Eskom sites
- 240-91190304 Specification for CCTV Surveillance with Intruder Detection
- 240-86738968 Specification for Integrated Security Alarm System for Protection of Eskom Installations and its subsidiaries
- 240-170000096 Physical security integration standard
- 240-170000086 Roles and Accountabilities for Lifecycle Management of Physical Security Systems in the Transmission Division
- 240-170000257 Technical Evaluation Criteria for the Integrated Security System
- 240-60725641 Specification for Standard (19 inch) Equipment Cabinets
- 240-46264031 Fibre-Optic Design Standard – Part 2: Substations
- DEM2412993 & 2425114 LAD (Logical Architecture Definition) PAC (Physical Application Component) for Physical Security Information Management System (PSIM)
- [12] Business Requirement Specification DEM_2412993 & 2425114 Tx and ET Security Monitoring System
- 240-170000691 Standard for Intrusion pre-detection systems used at Eskom sites
- 240-170000723 Generic Technical Requirements for Physical Security Technologies Contracts

2.3 Use of *Supplier's* design

N/A

2.4 Manufacture & fabrication

The Electric fence and security monitoring system cable must be manufactured according to the applicable law, SANS 10400, SANS 10142, SANS 60335-2-76 codes of practice and standards as well as any other applicable international standards. Both Electric Fence and security monitoring system must be able to provide adequate protection of ERI asset while ensuring and preventing any unauthorised entry.

2.5 Factory acceptance testing (FAT)

The supplier must advise and invite the client to witness any factory acceptance testing (FAT) of the Electrical fence and as well as security monitoring system. The suppliers must provide and issue certificate of compliance once the installations are complete. The supplier must provide the client any other test results conducted during FAT or during at any commissioning stage.


The supplier shall prepare Quality Control Plan identifying the various stages of manufacture, quality checks performed at each stage and the Customer hold points. The document shall also furnish details of method of checking, inspection and acceptance standards/values and get the approval of the client or his representative before proceeding with manufacturing. The Client or his representative shall have the right to review the inspection reports, quality checks and results of suppliers' in-house inspection department which are not Customer hold points and the supplier shall comply with the remarks made by the client or his representative on such reviews with regard to further testing, rectification or rejection etc.

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2.6 Other tests and inspections and commissioning in place of use

The additional test, inspections and commissioning must be done on site once the system has been fully installed.

2.7 Operating manuals and maintenance schedules

N/A

3 Supply Requirements

N/A

4 specification of the services to be provided

- Supply and delivery and offloading be on time of required order
- Transported by road on supplier's costs and transport
- End user to be informed when delivery will be done at least 3 days upfront
- No deliveries to be done on Friday, Weekend or public holiday (Unless otherwise agreed upon)


Approved by:

Phathutshedzo Ramulwela
Project Manager

Signature: 

Date: 10/10/2022

Joseph Ledwaba
Construction Site Manager

Signature: 

Date: 10/10/2022

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