

PART 3: SCOPE OF WORK

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C3.1: *PURCHASER'S* GOODS INFORMATION

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1 Overview and purpose of the *goods and services*

Fire detection and protection systems are regarded as level 1 safety system that ensure life and property protection against fire hazards. Kendal Power Station is commissioned with an Aritech and Techno-switch fire detection and protection technologies and their availability and reliability is essential in ensuring compliance to SANS 10139 and other SANS standards.

The main Aritech/Techno-switch fire system monitors over 3200 fire detection points throughout the station and consists of 11 fire panels with 1 global and 1 local repeater. These points consist of Switch Monitors (Water and Air Pressure switches), Zone Monitors (Spindles and Conventional detectors - Optical and Ionization) and Detectors (Addressable Ionization and Optical). The existing fire detection systems include the VESDA (Very Early Smoke Detection Alarm) system, Crowcon Gas Monitoring Unit, Linear Heat Detection System, Optical Beam Detectors and the Infrared Camera System. The fire detection system to be maintained is located at Unit 1 to 6 and Outside Plant.

To sustain the original performance of the fire detection and suppression systems, it is a requirement to develop a comprehensive and executed schedule for maintenance of fire detection and suppression systems that establishes preventative maintenance of the equipment to reduce the probability of breakdown and ensure fire detection and suppression systems are kept in a constant state of readiness.

2 Specification and description of the *goods*

Scope of work and requirements

- 2.1.1 The contractor shall supply all spares required as and when required.
- 2.1.2 The Contractor shall transport spares to the Kendal power Station stores
- 2.1.3 The Contractor must have their own transport (vehicle) for transportation of spares
- 2.1.4 The Contractor shall adhere to all Fire Detection System Lawful Requirements and comply to the latest standards and code of practice governing fire detection and suppression systems, most importantly:
 - Requirement of Department of Labour – Compliance with OHSA, SAQCC (Fire) registered
 - SANS 10139: Fire Detection and Alarm Systems for Buildings – System Design, Installation and Servicing
 - SANS 10400: National Building Regulations
 - SANS 246: Code of Practice for Fire Protection for Electronic Equipment Installations
 - SANS 369-1: Code of Practice for the Operation of Fire Protection Measures – Part 1: Electrical Actuation of Gaseous Total Flooding Extinguishing Systems
 - NFPA 72: National Fire Alarm and Signalling Code
- 2.1.5 **Unplanned Site Visits Due to Breakdowns:**
 - These visits will only be made use when the Employer requires services from the Contractor out of normal working hours.
- 2.1.6 Contractor shall adhere to Eskom Safety, Health and Environmental Requirements.

2.2 List of spares to be supplied

Item nr	Description	Unit	Expected Quantity
1.	Pressure Gauge, 0 – 1600 kPa 0234298	Ea.	120
2.	Pressure switch, Danfoss 0-8 Bar 0250864	Ea.	120
3.	Detector Sensors, DT952 0250865	Ea.	50
4.	Detector Heat, Intrinsically Safe, DT972 0250878	Ea.	53
5.	Galvanic Barrier GBX70 0250866	Ea.	33
6.	Protocol Translator, intrinsically 0250867	Ea.	15
7.	Module, Linear Heat PIM-430 D-E 0250868	Ea.	10
8.	Monitor, Switch 0250869	Ea.	35
9.	Monitor, Zone, 55000-813 0172687	Ea.	150
10.	Module, I/O 0172691	Ea.	25
11.	Loop Driver LC1502 0172692	Ea.	15
12.	Arrestor, Surge 0250870	Ea.	33
13.	Power Supply, PSU2000 Rev 1.1 0212153	Ea.	10
14.	Manual Call Point, addressable, interior 0172695	Ea.	230
15.	Detector, Heat 0172684	Ea.	25
16.	Base, Mounting for Detectors 0172694	Ea.	530
17.	Switch, Supervisory 0172685	Ea.	100
18.	Manual Call point, addressable, weatherproof 0172696	Ea.	250
19.	Detector, Optical 0172690	Ea.	560
20.	Break Glass 0172698	Ea.	50
21.	Card, X-pert 0172697	Ea.	10
22.	Charger, Blue Ginger 0172693	Ea.	20
23.	Isolator 0172688	Ea.	87
24.	Dual Stg Filter 0635742	Ea.	56

2.3 Purchaser's design

Not applicable.

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

Not applicable.

2.5 Other requirements of the *Supplier's* design

Not applicable.

2.6 Use of *Supplier's* design

Not applicable.

2.7 Manufacture & fabrication

Not applicable

2.8 Factory acceptance testing (FAT)

Not applicable.

2.9 Other tests and inspections and commissioning in place of use

Not applicable.

2.10 Operating manuals and maintenance schedules

Not applicable.

3 Supply Requirements

The Supply Requirements are stated under Specification and description of the goods of C3.1 *Purchaser's* Goods Information.

4 Specification of the *services* to be provided

Not applicable.

5 Constraints on how the *Supplier* Provides the Goods

5.1 Programming constraints

Refer to NEC SC3 clause 30

5.2 Work to be done by the Delivery Date

Not applicable.

5.3 Marking the *goods*

Goods shall be marked as specified in Goods information.

5.4 Constraints at the delivery place and place of use

- When delivering goods to site, each shall be marked with the purchase order number.
- Eskom Holdings Limited will only accept items stipulated in the Eskom Holdings Limited 's purchase order.
- No delivery will be made without a purchase order number (45....)
- Quality Check will be done, and goods with poor quality will be returned without exceptions. The *Supplier* will have to replace the goods.
- The prices include delivery but excludes VAT
- Gate access to be arranged a day before the delivery
- Kendal Power Station working hours are Monday to Thursdays 07H15 to 16H30 and Fridays 07H15 to 12H15.
- All personnel shall do alcohol test (Breathalyser) at the gate before access is granted.

5.5 Cooperating with Others

The Supplier shall cooperate and comply with others as needed.

5.6 Services & other things to be provided by the *Purchaser* or *Supplier*

Not applicable.

5.7 Management meetings

Regular meetings of a general nature may be convened and chaired by the *Supply Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Kick in meeting	At the start of the Contract _____	TBC	<i>Purchaser, Supplier,</i> and _____

Meetings of a specialist nature may be convened as specified elsewhere in this Goods Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the manufacture of the *goods*. Records of these meetings shall be submitted to the *Supply Manager* by the person convening the meeting within five days of the meeting.

Meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

5.8 Documentation control

Documents submitted will reference the Eskom purchase order number. All goods delivered accompanied by a delivery note.

5.9 Health and safety risk management

In addition to the requirements of the laws governing health and safety, the *Purchaser* may have some additional requirements particular to the *goods* and the location where they are to be delivered for this contract. This is a requirement of clause 25.4.

The *Supplier* shall comply with the health and safety requirements [stated here or contained in Annexure _____ to this Goods Information].

The *Supplier* shall comply with the health and safety requirements.

General Specifications

Health and Safety requirements

Eskom Safety, Health, environmental and quality (SHEQ) policy 32-727
Eskom *Contractor* Health and Safety requirements standards 32-136 Rev 2
Project SHE specification Rev 2
Occupational Health and Safety Act 85 of 1993
Compensation for Occupational Disease and Illness Act 130 of 1993

5.10 Environmental constraints and management

Describe or cross refer to environmental constraints applicable to the *Supplier's* design of the *goods* if not already included in the *Purchaser's* URS.

The *Supplier* shall comply with the environmental criteria and constraints [stated here or contained in Annexure _____]

5.11 Quality

Specify minimum requirements for the *Supplier's* Quality Plan and Work Procedures if required and not already covered in the specifications for the *goods*. State whether ISO compliance is a condition and if so which ISO standard shall apply.

5.12 Invoicing and payment

Within one week of receiving a payment certificate from the *Supply Manager* in terms of core clause 51.1, the *Supplier* provides the *Purchaser* with a tax invoice showing the amount due for payment equal to that stated in the *Supply Manager's* certificate.

The *Supplier* shall address the tax invoice to *Purchaser* and include on each invoice the following information:

- Name and address of the *Supplier* and the *Supply Manager*;
- The contract number and title;
- *Supplier's* VAT registration number;
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- All invoices must be submitted to invoiceseskomlocal@eskom.co.za after the goods have passed the Quality Control processes which include goods receipts.

5.13 Insurance provided by the *Purchaser*

Not applicable.

5.14 Contract change management

Not applicable.

5.15 Records of Defined Cost, payments & assessments of compensation events to be kept by the *Supplier*

Not applicable.

6 Procurement

6.1 Subcontracting

6.1.1 Preferred subcontractors

Not applicable.

6.1.2 Limitations on subcontracting

Not applicable.

6.1.3 Spares and consumables

Not applicable.

6.1.4 Other requirements related to procurement

Not applicable.

6.1.5 Cataloguing requirements by the *Supplier*

Not applicable.

7 List of drawings

7.1 Drawings issued by the *Purchaser*

This is the list of drawings issued by the *Purchaser* at or before the Contract Date and which apply to this contract.

Drawing number	Revision	Title

C3.2 SUPPLIER'S GOODS INFORMATION

This section of the Goods Information will always be contract specific depending on the nature of the *goods* and *services*.

It is most likely to be required for supply contracts where the tendering supplier will have proposed specifications and schedules for the *goods* and *services*, which once accepted by the *Purchaser* prior to award of contract now become obligations of the *Supplier* per core clause 20.1.

This section could also be compiled as a separate file.
