Eskom Rotek Industries	**SUPPLY AND MAINTENANCE OF FIRE EXTINGUISHERS COAL OPS 5** **SCOPE OF WORK**	**Bulk Material Services**

Title: **SOW – Supply and Maintenance of Fire Extinguishers Coal OPS5**

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1. Purpose

The purpose of this document is to outline the scope requirements for the supply and maintenance of fire extinguishers for Coal OPS 5 Sites on an “as and when required basis”.

2. Context of Environment

Eskom Rotek Industries (ERI) Bulk Material Services (BMS) Coal OPS 5, has Coal and Ash handling operations, OPS & Cleaning and Maintenance projects running at Duvha, Kendal power stations, Komati Water Scheme pump stations and Offices.

Komati Water Scheme has four Pump Stations namely: Vygeboom pump station situated in Badplaas, Bosloop pump station situated between Badplaas & Machadodorp, Wintershoek & Nooitgedaght pump stations situated in Carolina and Offices situated at Arnot Rietkuil.

The provision and routine maintenance of fire extinguishers in facilities at Duvha, Kendal and Komati Water Scheme is essential to ensure a safe working environment for employees and to protect surrounding facilities.

Regular inspection and maintenance ensure that all fire extinguishers remain compliant with safety regulations and are always in proper working condition. This does not only support adherence to Occupational Health and Safety requirements but also strengthens overall SHE compliance and audit readiness.

In addition, maintaining effective fire-fighting equipment reduces operational risks, protects company assets, and supports business continuity by minimizing disruptions caused by fire-related incidents.

3. Scope of Work

The objective is to:

- Ensure the provision of suitable fire-fighting equipment to manage and extinguish fires across all ERI BMS facilities at Duvha, Kendal and Komati Water Scheme.

The scope is to:

- Supply new fire equipment as and when required.
- Annual inspection and service of fire equipment as and when required.

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- Pressure testing of fire equipment as and when required within the window of five-year periods.

3.1 The Supplier is required to:

3.1.1 Compliance & Standards (but not limited too):

- Must comply with South African National Standards (SANS):
- SAQCC Fire, registered and in good standing
- SANS 450001
- SANS 1475 – Maintenance and servicing
- SANS 10105 – Installation and care
- SANS 1475 - Equipment calibration
- Ensure equipment comply to ISO 9001, 14001 and 18001 standards.
- Be able to provide relevant compliance related paperwork.

3.1.2 Warranty & Guarantees

- Fire equipment that has been supplied and serviced must be compliant and in order, for the twelve-month period until next service is due. Any fire equipment that requires rework before the twelve-month period will be at the contractor's cost.
- This excludes fire equipment used during emergency response conditions.

3.1.3 Type & Suitability of Extinguishers

Provide extinguishers suitable for specific fire risks:

- Electrical rooms → CO_2 extinguishers
- Oil/fuel areas → Foam or DCP extinguishers
- General areas → Dry Chemical Powder (DCP)

Ensure correct fire class coverage:

- Class A (solids), B (liquids), C (gases), E (electrical)

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- All units must be SABS-approved

3.1.4 Below are descriptions and depictions of the equipment expected to be acquired and delivered:

Components	Description	SOW
9kg DCP fire extinguisher		Pressure Gauge: Included for monitoring stored pressure. Mounting: Wall bracket included. Safety: Equipped with a safety valve Height. 580 mm Diameter, 178mm Mass Empty, 4.2kg Mass Full, 13.2kg Discharge, >12sec. Fire Rating: 27A / 183B (suitable for Class A: Solid, B: Liquid, C: Electrical fires) Agent: Mono-Ammonium Phosphate (MAP) based powder. Material: Mild Steel with corrosion-resistant finish SANS 1910:2009 certification Supply and Maintenance, supply of plastic aprons & service labels

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2kg CO2 fire extinguisher		Pressure Gauge: Included for monitoring stored pressure. Mounting: Wall bracket included. Safety: Equipped with a safety valve Capacity: 2kg of Carbon Dioxide Height. 580 mm Diameter, 117mm Tare Mass, 4.0kg Mass Full, 6.2kg Working Pressure: 174bar Test Pressure: 250bar Discharge, > immediately after use. Fire Rating: 34B (suitable for Class B: Flammable liquids and Live Electrical fires Range of throw: 1-3 meters Filling ratio: 0.66 Material: Alloy Steel with corrosion resistant SANS 1567 certification Supply and Maintenance

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5kg CO2 fire extinguisher		Pressure Gauge: Included for monitoring stored pressure. Mounting: Wall bracket included. Safety: Equipped with a safety valve Capacity: 5kg of Carbon Dioxide Height. 770 mm Diameter, 152mm Tare Mass, 8.8kg Mass Full, 14.4kg Working Pressure: 174bar Test Pressure: 250bar Discharge, > immediately after use. Fire Rating: 34B (suitable for Class B: Flammable liquids and Live Electrical fires Filling ratio: 0.66 Material: Alloy Steel with corrosion resistant SANS 1567 certification Supply and Maintenance

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50kg STP fire extinguisher		Pressure Gauge: Included for monitoring stored pressure. Mounting: Trolley mounted. Safety: Equipped with a safety valve Height. 1100 mm Diameter, 400 mm Mass Empty, 22kg Mass Full, 72kg Working Pressure: 1400kPa Test Pressure: 2100kPa Discharge, >55sec. Fire Rating: 55A / 233B (suitable for Class A: Solid, B: Liquid, C: Electrical fires) Agent: Mono-Ammonium Phosphate (MAP) based powder. Material: Mild Steel cylinder with trolley wheels for mobility SANS 1910:2009 certification Supply and Maintenance

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4.5kg DCP fire extinguisher		Pressure Gauge: Included for monitoring stored pressure. Mounting: Wall bracket included. Safety: Equipped with a safety valve Height. 425 mm Diameter, 175 mm Mass Empty, 2.9kg Mass Full, 7.4kg Working Pressure: 1800kPa Test Pressure: 3000kPa Discharge, >9 sec. Fire Rating: 21A / 113B (suitable for Class A: Solid, B: Liquid, C: Electrical fires) Agent: Mono-Ammonium Phosphate (MAP) based powder. Material: Mild Steel with corrosion-resistant SANS 1910:2009 certification Supply and Maintenance, supply of plastic aprons & service labels

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2.5kg DCP fire extinguisher		Pressure Gauge: Included for monitoring stored pressure. Mounting: Wall bracket included. Safety: Equipped with a safety valve Height. 485 mm Diameter, 179 mm Mass Empty, 3.9kg Mass Full, 5.5kg Working Pressure: 1400kPa Test Pressure: 2100kPa Discharge, >14 sec. Fire Rating: 8A / 55B (suitable for Class A: Solid, B: Liquid, C: Electrical fires) Agent: Mono-Ammonium Phosphate (MAP) based powder. Material: Mild Steel with corrosion-resistant SANS 1910:2009 certification Supply and Maintenance

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3.1.5 The ERI BMS representative(s) will be verifying the suitability of the equipment and relevant warranties prior to acceptance of equipment

3.1.6 The standard expectation is for all acquired equipment to meet relevant ISO9001 standards as well as contain relevant warranty confirmations.

NB: An external audit may be conducted by the BMS SHEQ department panel on the contractor before any contract or work is awarded. The audit will determine the capacity and capabilities of the awarded contractor as compared to the scope of work and execution period.

4 Supporting Documents

NB: Adherence to the following documentation must be proven accordingly during the evaluation process:

- ISO 9001 Quality Management Systems
- SANS
- SAQCC Fire, registered and in good standing
- Competency and registration employees
- OSHAS 1800 Safety Management Systems
- ISO 14001 Environmental Management Systems
- Occupational Health and Safety Act and Regulations (85 of 1993)
- 240-62196227_Eskom Life Saving Rules - compliance
- Criminal Procedures Act 51 of 1977
- National Road Traffic Act 93 of 1996
- Labour Relations Act 66 of 1995
- Basic Conditions of Employment Act 75 of 1997

4.1 Working times

- The site work hours will be 07h00-16h15, Monday to Thursday
- The site work hours will be 07h00-12h00, Fridays
- Supervisor and team will work normal hours during the day while activity is scheduled

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4.2 PPE

Required PPE on Sites (Specification to be supplied under SHEQ) supplied by contractor:

- Overalls-specific to activity, with own company branding
- Safety boots (that provides protection to the ankles)
- Hard helmets
- Gumboots (as required)
- Pigskin Gloves
- Safety goggles
- Ear plugs/muffs
- Dust masks
- Reflector vests

4.3 Required Tools/Resources:

- Contractor to ensure all tools required are available and calibration in order as per SANS.
- All servicing must be carried out by qualified and SAQCC-registered technicians.
- Proof of technician certification must be available on request.
- Only SABS/SANS-approved parts and extinguishing agents may be used
- All equipment must meet relevant SANS specifications

4.4 Management strategy and start up

The *Contractor*'s plan for the *service*

- Services schedule to be supplied by the Contractor.

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4.4.1 Management meetings

There will be a monthly meeting for the *Contractor* with the *Employer* held at the *Employer's* premises where contract issues will be discussed, while the activity is taking place on site (not expected to attend when no activity) i.e. monthly report form the *Contractor* which will include safety meetings, incident report an any other issues relating to the service being delivered. The following meetings are to be attended by the *Contractor's* Supervisor or representative:

- Contractor's monthly meetings (to be specified)
- Assessments meetings (end of the month on the 25th)
- Any other meetings relating to the *Contractor's* outputs or necessary for business continuity
- Risk register meeting with the client.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or registers shall not be used for the purpose of identified in the *conditions of contract* to carry out such actions or instructions.

4.4.2 Contractor's management, supervision and key people

The *Contractor's* staff structure – supervisors and workforce is to be submitted in the form of an organogram. The employer must approve any changes to such staff structure, and after the approval, the contractor shall submit an updated staff structure.

The *Contractor* shall provide a competent representative to be available on site during scheduled activities and all normal working hours (Supervisor).

The Contractor's representative will be required to keep all records, which are required, signed at the end of each scheduled activity plan.

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4.5 Documentation control

The service provider shall submit to the employer for assessment.

The contractor must, maintain a register of all serviced equipment Provide a detailed service report after each visit. Keep records for audit and compliance purposes

After servicing, each extinguisher must have:

- A service label indicating:
- Company name
- SAQCC registration number
- Date of service
- Next service due date
- Tamper proof seal
- A certificate of compliance/service report issued to the client

4.6 Invoicing and payment

Invoicing and payment turnaround time is 30 days. Assessments are to be conducted from the 26th of each month.

4.7 Contract change management

Task Order form to be used when work within the service is instructed to be carried out within a stated period. A task Order will be sent to the *Contractor* via an email. In the case of a compensation event, the *Contractor* must give the *Employer* an early warning and a quotation for the total costs, must be submitted electronically by the *Contractor* for that compensation event by email

4.8 Records of defined cost to be kept by the *Contractor*

The Employer will do all hours worked by the Contractor. Service or maintenance records will be submitted to and kept by the *Employer* on a weekly basis, and these will be used for assessment purposes.

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4.9 Training workshops

- The following training is necessary for the Supervisor and Team leaders. The cost will be for the *Contractor*:
  - Safety, Health and Environment Representative (SHE Rep.)
  - Applying SHE Principles and Procedure
  - Hazard Identification and Response
  - First Aid level 1

5.0 Health, Safety, Environment and Quality assurance

Health and safety risk management

The *Contractor* shall at all times comply with the health and safety requirements prescribed by law as they may apply to the *service*s.

The *Contractor* shall, when coming on site always abide by the Eskom Lifesaving Rules safety requirements.
The *Contractor* shall also abide by Safety, Health and Environmental Specifications for Contractors Procedure, which will also be provided by the *Employer*.

The *Employer* follows an accident/ incident prevention policy that includes the investigation of all accidents/ incidents involving personnel and property. This is done with the intention of introducing control measures to prevent recurrence of the same incidents. The *Contractor* is expected to fully co-operate to achieve this objective. Refer to 32-95_Environmental, Occupational Health and safety Incident Management Procedure

The *Contractor* implements a safety plan and maintains the safety system until completion of the whole of the works. The plan, will as a minimum, contain PPE information, written safe work procedures, job specific risk assessments, safety meetings, etc. The plan will be to the *Employer*'s satisfaction and will be accepted prior to the commencement of any work.

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The *Contractor* will be subject to periodic audits by the *Employer* in order to ensure compliance with the plan. Any deviations will be corrected to the *Employer*'s satisfaction.

The *Project Manager* has the right to stop the *Contractor*'s work activities which, in the opinion of the *Project Manager*, is un-safe. The *Contractor* may only continue with work activities when all safety deficiencies have been corrected to the *Service Manager's* satisfaction. The *Contractor* shall have no claim against the *Employer* in respect of delay due to the above.

5.1 Environmental constraints and management

The *Contractor* shall comply with ERI management system. This includes the identification, collection, storage, transportation and disposal of waste. Hazardous waste shall be disposed of in line with the applicable environmental legislation. It is important to note that all spillages must be cleaned immediately and reported to the project manager as soon as possible. It is the responsibility of the polluter to clean all spillages and for the rehabilitation of the polluted land and the cost associated with that.

5.2 Quality assurance requirements

The *Contractor* implements a quality system and maintains the quality system until the completion of the whole of the *works*. The system, will as a minimum, comply with the provisions of the ISO9001 series. The system will be to the *Employer's* satisfaction and will be accepted prior to the commencement of any work on site. The *Contractor* will be subject to self-assessments by the *Employer* in order to ensure compliance with the system. Any deviations will be corrected to the *Employer*'s satisfaction.

The *Project Manager* has the right to stop the *Contractor's* work activities, which, in the opinion of *Project Manager*, does not meet the requirements of the system and will have a detrimental effect on plant performance. The *Contractor* may only continue with work activities when all deficiencies have been corrected to the *Project Manager's* satisfaction. The *Contractor* shall have no claim against the *Employer* in respect of delay due to the above.

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The *Contractor* ensures that all plant and materials for the *works* are to the standard and quality accepted by the *Employer* and ensures that they are suitable for the purpose intended by the manufacturer.

The *Contractor* will work according to the *Employer's* standards, specifications, guidelines and procedures. Where no standards, specifications, guidelines and procedures are available, the *Contractor* will work according to the Generation Quality manual and professional guidelines. Where possible, standards will be reflected in the Task Order.

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The employer shall evaluate, control and monitor the performance and effectiveness of the Contractor

5 Procurement

People

Eskom Holdings Limited's requirements regarding employment of unskilled or semi-skilled workers are as follows:

- ERI requires that during recruitment of unskilled or semi-skilled labour, a contractor should make every effort to employ minimum target of 100 % suitable candidates from all disciplines from the local community and will only resort to other avenues if the local community cannot provide the required resources.

5.1 Plant and Materials

5.1.1 Correction of defects

If there is part of work that the *Employer* is not happy with, this will be indicated to the *Contractor* and will have to be rectified by the *Contractor* immediately where reasonably possible or within 5 working days after the defect was reported.

5.1.2 Plant & Materials provided by the *Employer*

a. Water and Electricity

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b. Lighting and Ventilation
c. Ablution facilities
d. Sitting facilities

NB: The *Contractor* will be responsible for their meals, own accommodation and transport to and from the place of work.

6 Working on the Affected Property

Under no circumstances will the *Contractor* do the work without proper PPE. The Supervisor on the *Contractor's* side will make it his duty to make sure that this is properly addressed.

6.1 Employer's site entry and security control, permits, and site regulations

The *Contractor's* access to site shall be in line with the Site access procedure. The *Contractor* shall be required to make an application for his employees to enter site for the duration of the contract, including defects period. The permits shall only be issued once the *Contractor's* employees have attended the safety induction training, submitted police clearance certificates and have undergone medical checks. The safety induction will be for the *Employer's* account. The medical and Police clearance checks will be for the *Contractor's* account

6.2 People restrictions, hours of work, conduct and records

- The Contractor will carry out the Works on an 8-hour basis. Work on Saturdays, Sundays and Public Holidays will be as and when required and in agreement.

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6.1 Records of *Contractor*'s Equipment

The *Contractor's* Supervisor should keep record of all the equipment used by the *Contractor*. The *Contractor* is responsible for the safekeeping of all their equipment.

6.2 Control of noise, dust, water and waste

The contractor must supply their own dust masks and cloth masks as part of PPE. Drinking water is available on site as well as waste bins for disposing waste

7 List of drawings

Fig 3.17

8 Acceptance

This document has been seen and accepted by:

AName	BDesignation
Lethabo Mahlake	HOD Coal Ops 5
Nokuthula Ngwenya	Project Manger

9 Revisions

CDate	DRev.	ECompiler	FRemarks

10 Development Team

The following people were involved in the development of this document:

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1 Acknowledgements

None

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