 Eskom	Scope of work	Medupi Power Station
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Occupational Hygiene and Safety  
Services**

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## **1. Introduction**

Medupi Power Station URS indicates that the plant must be able to achieve 92% availability, 6% planned unavailability and 2% unplanned unavailability. This can only be achieved by doing the correct maintenance at the correct time as per Medupi Power Station Plant Maintenance Strategy.

Medupi plant performance, reliability and environmental control should be monitored by conducting plant safety entry tests to determine if the plant is safe for employees to perform work.

This document is developed to ensure that there is a contract in place for calibration of occupational hygiene and safety equipment's including provision and maintenance of specialised personal protective devices (PPE).

The implementation of this scope of work will result in the following benefits to Eskom:

- To prevent work related injury and ill health to workers
- Provide safe and healthy workplace for employees
- Fulfilment of Legal requirements and other requirements
- Improve Occupational Hygiene and Safety performance

## **2. Supporting Clauses**

### **2.1 Scope**

The Scope covers all Occupational Hygiene and Safety equipment's used at Medupi plant systems, including requirements of maintenance for specialised PPE. This will include the replacement of damaged equipment's, supply of accessories and buying new ones.

#### **2.1.1 Routine services**

Calibration of OHS equipment's and maintenance of special PPE at Medupi Power Station as specified below. The services to be provided as per SAP PM and SAP CM for the following required services:

- a) Calibration, Maintenance and Supply of Alcohol testing machine
- b) Calibration, Maintenance and Supply of Environmental test machines
- c) Calibration and maintenance and supply of Lux meter
- d) Calibration and maintenance and supply of Sound Level meter
- e) Calibration and maintenance and supply of Acoustic calibrator
- f) Calibration and maintenance and supply of Radiation Detector
- g) Calibration and maintenance and supply of Personal noise dosimeter
- h) Calibration and maintenance and supply of Indoor Air quality meter
- i) Calibration and maintenance and supply of Gas tester
- j) Calibration and maintenance and supply of personal sampling

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- k) Calibration and maintenance and supply of Calibrator
- l) Calibration and maintenance and supply of prescribed safety goggles
- m) Calibration and maintenance and supply of Customised hearing devices

### **2.1.2 Purpose**

The purpose of this document is to outline the works information, the technical requirements, and all the contract and safety requirements for Medupi Power Station Occupational Hygiene and Safety Services.

The proposed contract must support the station to achieve zero Environmental and Safety contraventions.

It is therefore imperative that the successful and suitably qualified Contractor aligns his/her organisation fully to these specified scope activities and processes laid down in this document as well as relevant and recognised international, national and Employer's standards and policies.

### **2.1.3 Applicability**

This document shall apply to Medupi Power Station.

### **2.1.4 Effective date**

This document shall be effective from the date of authorisation.

## **2.2 Normative/Informative References**

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

### **2.2.1 Normative**

- [1] ISO 9001 Quality Management Systems
- [2] ISO 45001 Occupational Health and Safety Management system
- [3] Occupational Health and Safety Act no. 85 of 1993
- [4] GGR 0992 Eskom Plant Safety Regulations
- [5] 240-62196227 Eskom Lifesaving Rules
- [6] 240-44175132 PPE Specification
- [7] 32-520 Occupational Health and Safety Risk Assessment Procedure
- [8] 32-477 SHE Training and Development
- [9] 32-95 Environmental, Occupational Health and Safety Incident Management Procedure

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## 2.2.2 Informative

## 2.3 Definitions

### 2.3.1 Terms:

- a) **Approved:** Means acknowledged and authorized in accordance with the authoritative governing body/is, i.e. SANS, EN and so forth.
- b) **Employee:** Any person who is employed by or works for an employer and who receives or is entitled to receive any remuneration or who works under the direction or supervision of an employer or any other person.
- c) **Responsible Manager:** The manager formally appointed and within his/her delegation of authority is overall responsible to ensure occupational health and safety within the defined area of responsibility.
- d) **Risk assessment:** Overall process of hazard identification, risk analysis and risk evaluation.
- e) **PPE:** Equipment designed to be worn or used by any person to provide adequate protection from specific hazards in the workplace, when properly used.
- f) **Properly used:** Used with reasonable care and with due regard to any information, instruction or advice supplied by the designer, manufacturer, importer, seller or supplier, as the case may be.
- g) **Medical Surveillance:** is a planned programme of risk based periodic examinations (which may include clinical examinations, biological monitoring or medical tests) of employees by an occupational health nurse or in prescribed cases, by an occupational medicine practitioner. The results from this programme act as an important indication of the adequacy of worksite health and safety control measures.
- h) **Periodic Health Screening:** a medical examination and/or tests performed on a regular basis throughout an employee's work life cycle in order to monitor their health status in relation to the specific health and safety hazards to which they are exposed.
- i) **Occupational Health Practitioner:** an Occupational Medicine Practitioner, or a person who holds a qualification in Occupational Health recognised by the Medical and Dental Board of Health Professions Council of South Africa, or the South African Nursing Council. This includes both Occupational Medicine Practitioner(s) (OMP) and Occupational Health Nursing Practitioner(s) (OHNP).
- j) **Occupational Health:** means the anticipation, recognition, evaluation and control of conditions arising from the workplace, which may cause illness or adverse effects to persons.
- k) **Occupational Risk Exposure Profile:** occupational risks that an employee is exposed to and the relevant medical examinations and their frequency that must be conducted on the employee.
- l) **Risk:** the probability that injury or damage will occur.
- m) **Employer:** Any person who employs or provides work to a person and remunerates that person, or expressly or tacitly undertakes to remunerate him/her, excluding labour brokers (Temporary Employment Service Agents) as defined in the Labour Relations Act (Act No. 28 of 1956) and in terms of section 16.2 of the OHS Act.
- n) **Medical certificate:** A certificate issued in terms of medical surveillance and the Control of Eskom Employees, using the OREP (Occupational Risk Exposure Profile) form.

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## **2.4 Abbreviations**

<b>Abbreviation</b>	<b>Description</b>
<b>AIA</b>	Approved Inspection Authority
<b>BU</b>	Business Unit
<b>CA&amp;F</b>	Corporate Assurance and Forensics Department
<b>COID</b>	Compensation for Occupational Injuries and Diseases
<b>DoL</b>	Department of Labour
<b>EIMS</b>	Eskom Insurance Management Services
<b>ISO</b>	International Organisation for Standardisation
<b>OHP</b>	Occupational Health Practitioner
<b>OHSLC</b>	Occupational Health and Safety Liaison Committee
<b>OREP</b>	Occupational Risk Exposure Profile
<b>PPE</b>	Personal Protective Equipment

## **2.5 Roles and Responsibilities**

### **2.5.1 Contractor**

a) The Contractor shall:

- 1) Be responsible for conducting OHS calibration based on the requirements of the OEM.
- 2) Issue calibration certificates for the equipment calibrated
- 3) Draw a calibration program based on the required frequency
- 4) Will use accredited and approved by SANAS lab for the calibration

## **2.6 Process for Monitoring**

SAP PM will be used as a process for monitoring.

## **2.7 Related/Supporting Documents**

Not Applicable

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### 3. Document Content

#### 3.1 Works Information

##### 3.1.1 Occupational Hygiene Services Equipment

Instrument Name	Instrument	Quantity	Serial Number	Model Number	Calibration Frequency
Goldilux	Lux meter	1	11123/1574	11123	2 yearly
SLIK	Equipment stand	1	C155	C155	N/A
SVANTEK 971	Sound Level Meter Type1	1	44488	7545	2 yearly
SVANTEK 34	Acoustic calibrator	1			2 yearly
GammaRAE II R	Personal Radiation Detector and Dosimeter	1	248-003388	047-0501-000	2 yearly
3M (Quest)	WBGT Index	1	TQM090016	Questemp 44	Annually
3M (Quest)	WBGT Index	1	TQN090011	Questemp 44	Annually
3M (Quest)	WBGT Index	1	TQN090009	Questemp 44	Annually
3 M (Quest)	WBGT Index	1	TQN090012	Questemp 44	Annually
SVANTEK	Personal Noise Dosimeters	5	50223	SV 104IS	2 yearly
			50073	SV 104IS	2 yearly
			50221	SV 104IS	2 yearly
			50220	SV 104IS	2 yearly
			50222	SV 104IS	2 yearly
Gillian	Gillibrator	1	20160320161	783-0012-01	2 yearly
TSI	Indoor Air Quality Meter	1	T75451525003	7545	Annually
Dräger	Gas tester	1	ARFM- 0107	X-am 7000	6 monthly
Dräger	Gas tester	1	ARBM -0475	X-am 7000	6 monthly
Dräger	Gas tester	1	ARFM - 0104	X-am 7000	6 monthly
Dräger	Gas tester	1	ARFM - 0105	X-am 7000	6 monthly
Dräger	Gas tester	1	ARFM - 0103	X-am 7000	6 monthly
Dräger	Gas tester	1	AREM - 0424	X-am 7000	6 monthly
Dräger	Personal Sampling Pump	1	ARFL - 0012	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFG - 0004	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ - 0177	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFL- 0005	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ- 0121	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFH- 0072	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFL- 0037	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFL-0052	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFH- 0098	X-am 5600	6 monthly

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Dräger	Personal Sampling Pump	1	ARFJ-0187	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFL- 0028	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFL -0033	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFL- 0026	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ- 4511	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ- 4457	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARBK- 2829	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARBK- 0869	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARBK- 0861	X-am 5000	6 monthly
Dräger	Personal Sampling Pump	1	ARFL- 0022	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ- 4545	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARBK- 0868	X-am 5000	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ - 0168	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ-0168	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFL-0004	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFJ-0016	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFFL-0046	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARBK-0841	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARFH-0072	X-am 5600	6 monthly
Dräger	Personal Sampling Pump	1	ARHE-0134	X-am 5600	6 monthly

### 3.1.2 Protective Service

Instrument Name	Instrument	Quantity	Serial Number	Model Number	Calibration Frequency
Dräger	Alcohol Test	1	ART0065	5000	6 monthly
Dräger	Alcohol Test	1	ARC0069	5000	6 monthly
Dräger	Alcohol Test	1	ARTC068	5000	6 monthly
Dräger	Alcohol Test	1	ARTC0061	5000	6 monthly
Dräger	Alcohol Test	1	ARTC0061	5000	6 monthly
Dräger	Alcohol Test	1	ARRH013	6820	6 monthly
Dräger	Alcohol Test	1	ARRH0379	6820	6 monthly
Dräger	Alcohol Test	1	ARRH0140	6820	6 monthly
Dräger	Alcohol Test	1	ARRK0624	6820	6 monthly

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Dräger	Alcohol Test	1	ARRK0608	6820	6 monthly
Dräger	Alcohol Test	1	ARRK0610	6820	6 monthly
Dräger	Alcohol Test	1	ARRK0628	6820	6 monthly
Panasonic VDR-D310	Speed camera	1	136/8500	20280	Annual
Trunvelo Lidar	Speed camera	1	136/8500	20280	Annual

### **3.1.3 Second scope**

- a) Supply and delivery including maintenance of special prescribed goggles for Medupi Power station employees on an annually basis and as per and when required.
- b) Fitting and moulding of custom-made ear plugs including maintenance on an annually basis and as per when required.

## **3.2 Deliverables**

### **3.2.1 Calibration, Supply and Testing activities**

Shall be done as per the scope of work, changes to the SOW will made as and when required and between the Service Manager and the Contractor.

## **3.3 Service and Standards**

The Contractor shall perform all services necessary to ensure that equipment is calibration and maintained in accordance with agreed standards and procedures.

## **3.4 Training and certificate**

The contractor will be expected to offer training on the use and maintenance of the equipment supplied and issue certificate after training. The contractor is also expected to conduct station wide awareness on special events or days

## **3.5 Contract Requirements**

- i. The contracting company shall provide its own transport.
- ii. The contracting company shall provide its own PPE.
- iii. The Contractor shall provide adequate skilled personnel for the job execution.
- iv. The Contractor shall compile a detailed report on the works completed and it must be submitted electronically within seven days from the date of completion to the Employer. The report shall contain the following:
  - a) Date and time of the test
  - b) Name of the test conducted

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- c) Tests results (Reports shall be made available no later than one week after testing)
- d) Comments/Recommendation
- e) Conclusion

### **3.6 Safety Requirements**

- a) The Contractor shall comply with Eskom Occupational Health and Safety, Environmental, Risk and Quality requirements, standards and policies.
- b) The Contractor shall ensure compliance to all Eskom mandatory standards and statutory requirements.
- c) The Contractor shall ensure that they use correct PPE (safety goggles, safety gloves, overalls, reflective vest, dust masks, earplugs, hardhat, safety boots) at all times.
- d) The Contractor shall provide valid medical certificates.
- e) The Employer shall submit the test request to Ops 24 hours before the Contractor conducts a test.
- f) The Employer shall ensure that a plant in operation PTW is in place prior commencement of work.
- g) The Contractor shall ensure that induction is done prior to commencement of work.
- h) The Contractor shall obtain LAR and conduct risk assessment prior to commencement of work.
- i) All safety regulations pertaining to the process shall be adhered to and the contracting company shall also ensure that it sends its safety file for approval with all the required documentation as per safety file checklist to Risk Department.
- j) The Contractor shall have a safety file with all the required documents as per Eskom Safety file checklist.
- k) The Contractor shall ensure that the vehicle to be used on site conforms to Eskom safety standards.

## **4. Acceptance**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
Sipho Ramushu	Security Manager

## **5. Revisions**

<b>DATE</b>	<b>REVISION</b>	<b>COMPILER</b>	<b>REMARKS</b>
May 2025	1	Mapitsi Tladi	First Issue
May 2025	0	Mapitsi Tladi	First Draft

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## **6. Development Team**

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

- Mapitsi Tladi
- Sehlare Modiba

## **7. Acknowledgements**

Not applicable

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