

	SCOPE OF WORK	Doc. no.						
		Holder					Rev 00	
		Criticality level					Pages 1	
Kendal Power Station	Document Type: Scope Of Work for Kendal Power Station Dust Fall Out Monitoring	Unit applicability						
		0 x	1	2	3	4	5	6
Compiled and recommended by	Tshilidzi Vilane Environmental Officer					03/05/2022		
Approved by	Solly Chokoe Environmental Manager					03/05/2022		
	Name	Signature				Date		
Rev.	Description of Revision					Date		
0	Original					2022-05		
For information only, unless otherwise specified								

Scope of Work

Executive overview

Kendal Atmospheric Emissions Licence requires the monitoring and reporting of dust fall out on a monthly basis as per the Kendal Fugitive Emission Monitoring Management Plan. All analysis shall be carried out in accordance with methods prescribed in the SANS 1929:2011 that recommends using the ASTM D1739 (gravitational and filtration systems) – standard test method for the collection measurement of dust fall out. The purpose of this document is to outline the scope of work that is to be performed (by the Consultant) during monitoring of fugitive emissions (Dust fall out). Kendal has installed sixteen dust buckets deposition monitoring units (As per the attached map). Scope of work, as covered by the contract, aims to coordinate dust fall out monitoring system from different dust sources around Kendal Power Station. This document has been developed in accordance with the regulation no. R827 (National Dust control regulations).

Interpretation and terminology

N/A

The following abbreviations are used in this Scope:

Abbreviation	Meaning given to the abbreviation
ECSA	Engineering Council of South Africa
SACPCMP	South African Council for Project and Construction Management Professionals

Specification and description of the services

- Dust fall out monitoring buckets shall be collected and replaced with new ones on a monthly basis. The collection and replacement of the buckets shall be done after 30 to 31 days of each month. The data and the final report must be submitted within two or three weeks after the replacement of the buckets.
- Initial contractual meeting at Kendal Power to discuss the project plan and to view the locations of the samplers.
- Safety, health and environmental (SHE) compliance prior to commencement of work. This will include one meeting with the Kendal Power Station safety representative, submission of a safety file (including medical certificates), and SHE inductions.
- SHE compliance will occur annually for the duration of the project.

- Monthly bucket preparation for 13 buckets.
- Monthly collection and delivery of 13 buckets.
- Monthly insoluble gravimetric analysis on 13 samples.
- Monthly compilation and electronic submission of one detailed report.
- Quarterly project meetings/Client requested meetings at Kendal Power Station.
- The compilation and electronic submission of detailed annual reports.
- Annual dust fall out network audit.
- Provision of ten replacement buckets over the contract period.
- Provision of ten replacement samplers over the contract period.
- Installation of ten replacement samplers over the contract period.
- The installation is based on one sampler per day. This provides the worst case scenario
- Chemical analysis of dustfall samples and source (bulk) samples to better understand the source of dustfall. This is based on chemical analysis using XRF, XRD and ICP analysis on all samples (dustfall and source).
 - a. Provision of 50 chemical analyses (ICP, XRD and XRF) on dustfall filters for the duration of the contract.
 - b. Provision of once-off chemical analysis (ICP, XRD and XRF) on six types of source samples:
 - i. ash waste;
 - ii. coal stockyard material;
 - iii. the road around the ash dump;
 - iv. the road around the coal stockyard;
 - v. agricultural road; and
 - vi. agricultural field.
- A final monitoring report must meet all the requirements stipulated in regulation no. R827 (Dust fall out regulation and shall include at least the following:
 - Introduction
 - Site description (including coordinates) and condition of monitoring network.
 - Likely sensitive receptors
 - Map of the monitoring network and dates of sampling.
 - Monthly dust fallout results reported against relevant dust fallout standards (graphical representation and interpretation of results).
 - A short conclusion and recommendations.

Constraints on how the *Consultant* Provides the Services.

Management meetings

Regular meetings of a general nature may be convened and chaired by the *Employer's Agent* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Monitoring results and Exceedances challenges	Ad-hoc	Environmental Management Office/MS Teams	Employer's Agent and Consultant
Monitoring network	Ad-hoc	Environmental Management Office/MS Teams	Employer's Agent and Consultant
Overall contract progress	Annually	Environmental Management Office/MS Teams	Employer's Agent and Consultant

Consultant's key persons

N/A

Provision of bonds and guarantees

N/A

Documentation control and retention

Identification and communication

N/A

Retention of documents

N/A

Records and forecasting of *expenses*

N/A

Records and forecasting of the Time Charge

N/A

Invoicing and payment

Clause 50.2 states invoices submitted by the *Consultant* include the details stated in the Scope to show how the amount due has been assessed. Also state what must be shown on the Invoice. The following text is suggested.

The following details shall be shown on or attached to each Invoice to show how the amount due has been assessed:

The *Consultant* shall address the tax invoice to Tshilidzi Vilane and include on it the following information:

Name and address of the *Consultant* and the *Employer's Agent*;
The contract number and title;
Consultant's VAT registration number;
The *Employer's* VAT registration number 4740101508;
Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
(add other as required)

[Add procedures for invoice submission and payment (e. g. electronic payment instructions)]

Contract change management

NA

Inclusions in the programme

N/A

Quality management

The Consultant shall comply with the Employer's Quality Requirements as specified in Eskom QM58 document.

System requirements

Consultant to comply with the client's ISO 9001: 2008, Quality Management System requirements.

Information in the quality plan

A sound quality control plan with witness and hold points is compiled and followed. Sound design and engineering principles are used.

The Parties use of material provided by the *Consultant*

***Employer's* purpose for the material**

N/A

Restrictions on the *Consultant's* use of the material for other work

N/A

Transfer of rights if Option X 9 applies

N/A

Management of work done by Task Order

N/A

Health, safety and Environmental Requirements

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

The *Consultant* shall comply with the following:

- Eskom SHEQ policy
- SHE requirements for Eskom commercial process
- Adhere to the OHS Act 85 of 1993.
- All staff will undergo Safety Induction, presented by *Employer's* Risk Management Department.

- *Consultant* must obtain a safety clearance and adhere to permit to work system used at Kendal Power Station before carrying out any work.
- Kendal specific environmental policy and procedures for Environmental Management System (ISO 14001, 2015).
- Kendal Waste Management Procedure (*1024102).
- The consultant must report any Environmental incident that can occur while onsite to the environmental department.
- All the removed PVC lamella plates and damaged supporting steel structures for the plates must be disposed of accordingly and the Environmental department must be provided with a waste manifest/disposal certificates.

SHE Documentation required from the *Consultant*: The *Consultant* shall provide the following documents in terms of Health, Safety and Environmental performance:

- Letter of good standing with COID or any insurance body
- An organogram indicating the names of all persons that will hold legal appointments on the project in terms of the Act.
- The expected roles, responsibilities and authority of those who are proposed to receive legal appointments.
- Provide an overview of the system / program that is utilized to manage Safety, Health and Environment.
- Health and Safety plan/program
- Health and Safety policy
- SHE induction program
- Training records of each employee
- Health and Safety objectives
- Incident management
- Environmental tender returnable as per the checklist provided

Base Line Risk assessment to be conducted by the Employer's agent with the Employer's Safety department to be provided to the consultant.

Procurement

BBBEE and preferencing scheme

- Price will be calculated out of 80 points
- Maximum of ten (20) points will be allocated to the relevant B-BBEE compliant level
- Preference points will be allocated in accordance with B-BBEE Level of Contribution
- Price points and B-BBEE preference points will then be added together
- The tenderer who obtains the highest points will be awarded the tender, , the specific goals (BBBEE) justify awarding to another tenderer in accordance with Section 2 (1) (f) of the objective criteria of PPPFA Regulations.
- Tenderers are required to submit a valid B-BBEE Status Level Verification Certificate or certified copies thereof together with their tenders to substantiate their BBBEE rating claims.

- Tenderers who do not submit their B-BBEE Status Level Verification Certificates or are non-compliant contributors to BBBEE do not qualify for preference points BBBEE but should not be disqualified from the tendering process. They will score points out of 80 for price and zero (0) points out of 20 for BBBEE.

Other constraints

N/A

Preferred sub consultants

N/A

Subcontract documentation, and assessment of subcontract tenders

N/A

Limitations on subcontracting

N/A

Attendance on Subconsultants

N/A

Correction of Defects

N/A

Working on the *Employer's* property

Arrangements for entrance to the site must be made with the employer before the consultant access the site

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

N/A

People restrictions, hours of work, conduct and records

N/A

Cooperating with and obtaining acceptance of others

N/A

Things provided by the *Employer*

N/A

List of drawings

Drawings issued by the *Employer*

N/A