

Scope of Work for fugitive dust sampling contract

Grootvlei Power Station

Title: Grootvlei Power Station: Unique Identifier: GVL/0640.

Fugitive Dust Sampling, analysis and Reporting for the

Modification of Camden fugitive dust sampling

contract

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1. INTRODUCTION

Grootvlei Power Station requires a suitable service provider for fugitive dust monitoring, sampling, analysis and Reporting.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document covers the Fugitive dust monitoring, Sampling, analysis and reporting scope of work for the works that are to be covered monitoring, sampling, analysis and reporting. The overview of this document is to ensure that all analysis and sampling points determination, installation and maintenance comply with the National Environmental Management: Air Quality Act, 2004; (Act No. 39 of 2004) National Dust Control Regulations NEM:AQA Dust Regulations and latest sampling methodology(D1739-98) and industry standards and best practises. Including SANS1137:2019

This document covers the Scope of Work (SoW) to be carried out by the contractor on the sampling points determination, installation of stainless steel sampling stand and cages, sampling, analysis, and reporting installation, at Grootvlei PS.

The scope will entail the following requirements, amongst others;

- Determination of 20 sampling points
- Monitoring of 54 sampling points
- Monitoring of the 42 elements
- Analysis of samples
- Compilations of 2 monthly reports
- Replacement of 10 damaged samplers
- Installation of 20 Additional Samples

2.1.1 Applicability

This document shall apply to Grootvlei Power Station Fugitive dust sampling within Environmental Management Department .

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 Normative

As a minimum, the Contractor is expected to comply with the following Eskom Engineering governance documents:

- [1] National Environmental Management: Air Quality Act, 2004; (Act No. 39 of 2004)
- [2] National Dust Control Regulations
- [3] SANS 1137:2019
- [4] D1739-98

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[5] Atmospheric Emission License: Dipaleseng/Eskom H SOC Ltd/GPS/0015/2024/F04

2.2.2 Informative

[6] National Environmental Management Act 107, 1998 (Act No. 107 of 1998).

2.3 DEFINITIONS

N/A

2.3.1 Disclosure Classification

Controlled Disclosure: Controlled Disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description				
NEMA	National Environmental Management Act				
NEM:AQA	National Environmental Management: Air Quality Act				
SoW	Scope of Works				
PS	Power Station				

2.5 ROLES AND RESPONSIBILITIES

The Environmental Management Officer is delegated with the authority to perform the following functions:

- Compile and review the scope of work
- Ensure the procurement requirements are followed during the transaction.
- Ensure the scope is in line with approved methodology
- Ensure all reporting requirements are fully met.
- Support and coordinate activities associated with the transaction
- Ensure suppression activities are undertaken

Snr Advisor Environmental Management

- Review and recommend the transaction
- Ensure that oversight role is fulfilled

Environmental management Line Manager

- Reviews and authorises the document.
- Manages the execution of the works.
- Ensure value for money is attained

Contractor

• Executes the SoW in line with relevant and applicable industry standards and norms.

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Compiles the reports in accordance with the scope of work

2.6 PROCESS FOR MONITORING

The process for monitoring will be governed by compliance audits and reviews .

Weekly inspections and observations

2.7 RELATED/SUPPORTING DOCUMENTS

• Atmospheric Emission License: Dipaleseng/Eskom H SOC Ltd/GPS/0015/2024/F04

3. SCOPE OF WORK

3.1 DETAILED SCOPE

The required works by the contractor will cover the following items, objectives, and technical deliverables:

- a) Determination of sampling points and allocation of GPS coordinates for each point
- b) Installation of stainless steel sampling stands and cages with a foundation of 10L concrete at the bottom.
- c) Mount the sampling buckets with lockable mechanisms in each determined point
- d) Replace damaged sampling points and reposition them where required
- e) Collects samples within a period of 30+3 days
- f) Send samples to a SANAS Accredited laboratory for soluble and insoluble including elementary analysis
- g) Compile monthly reports for internal and external analysis: the reports should be as follows:
 - a. Introduction with a background summary of the works, methodology and purpose of the works.
 - b. Site overview with google earth maps showing the sampling regime.
 - c. Table of results for dust particles (pm2.5-pm10)
 - d. Table of results for elementary analysis
 - e. Display of meteorological data with wind-roses indicating wind patterns and how the winds influenced the results
 - f. Results interpretation graphs
 - g. Compliance statement of results trends comparing each point with its previous results
 - h. Recommendations
 - i. Conclusion
- h) All reports should have an annexure of the Accreditation certificates of the Laboratory used for analysis
- i) Each report to have a power point display of the results as an annexure
- j) All repots should be submitted to the services manager within ten calendar days after the samples were taken.
- k) Submit annual summery reports focusing on results

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) The contract shall be for five years (12months)

Price list for the fugitive dust sampling at Grootvlei Power Station

Description	Unit	days	Quantity	Rate	Amount	No. of years	Total
Section 1							
Prelimnaries and General (Cost Breakdown)							
-							
Prelimnaries and Generals : Safety							
Site establishment	Sum		1		R 0,00	1	R 0,00
Site de-establishment	sum		1		R0,00	1	R 0,00
Police clearance	Sum		3		R0,00	5	
Medicals	sum		3			5	
Health and Safety							
Safety File	Sum		1		R 0,00	1	R 0,00
Personal Protective Equipment	Sum		3		R 0,00	5	R 0,00
Transportation							
Site visit-travelling	km		600		R 0,00	60	R 0,00
Accommodation for 3 people	Nights	2	60		R 0,00	60	R 0,00
Sub-Total							R 0,00
Description	Unit	Hrs	Quantity	Rate	Amount	No. of months	Total
Section-3							

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	1			T	
Site assessment and					
<u>evaluation</u>					
Sampling point determination and modelling	ea	55	R 0,00	1	R 0,00
10L Concrete base for	ea	55	R 0,00	1	R 0,00
stainless steel stand					
installation					
Lockable stainless-steel cages	ea	55	R 0,00	1	R 0,00
with wind shields installation					
Sampling bucket	ea	55	R 0,00	60	R 0,00
Replacement of damaged	ea	10	R0.00	1	R 0.00
sampling points					
Sampling					
Elementary sampling and lab	ea	55	R 0,00	60	R 0,00
analysis			111,000		·
Dust sampling and lab analysis	ea	55	R 0,00	60	R 0,00
					,
Reporting					
Koporting					
Elementary Report					
First 42 elements to be	ea	2	R 0,00	60	R 0,00
sampled in all 55 sampling		_	110,00		
points. Results shall be					
trended against previous					
results.					
Funitive Duet Departs					
Fugitive Dust Reports					
Monthly report with:					
Introduction and background	ea	2	R 0,00	60	R 0,00
g					
Site overview Google map					
indicating GPS coordinate for					
all sampling points, indicate					
exceedance points					
Table of sampling results					
Put on power point for					
stakeholder updates					
Trends for each sampling point					
Table for exceedance					
Conclusion and					
recommendations with SANAS					
accreditation certificate					
Annual reports					

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	1	T			
Annual elementary with:					
Annual trends for all sampling points consolidated	ea	1	R 0,00	5	R 0,00
Conclusion with SANAS accreditation certificate	ea	1	R 0,00	5	R 0,00
Fugitive dust annual report					
with:					
Annual trends for all sampling points consolidated	ea	1	R 0,00	5	R 0,00
Conclusion with SANAS accreditation certificate	ea	1	R 0,00	5	R 0,00
Sub-Total					R 0,00
Contract Price Adjustment					
					R
Total					

3.2 RECEIVABLES

3.3 DELIVERABLES

- (a) Scheduled Rates / Cost estimate / BOQ including schedule estimate for the monitoring regime
- (b) Method Statement Document with Quality Control Plan

3.4 SKILLS & EXPERIENCE

Skills and experience required are as follows but not limited to:

- 1. Certifications and qualifications
- (a) National Diploma /Bsc Environmental Management or Sciences
- (b) Compliance Management plan
- 2. Experience
- (a) Proven track record of completing similar services within an industrial Environment not less than five years' experience

3.5 TIME FRAME & SCHEDULE

All the sampling points should be exposed for a minimum period of 30 days but not more than 34 days.

All reports to be submitted not more than ten days after samples were collected from site

After twelve month of uninterrupted sampling a consolidation report shall be submitted annually

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In case of a call out the team should be on site within 24hours time frame

3.5.1 General Notes and Requirements:

(a) The Contractor is to comply with the National Environmental Management: Air Quality Act and its National Dust regulations.

4. AUTHORISATION

This document has been seen and accepted by:

- 5. REVISIONS
- 6. DEVELOPMENT TEAM
- 7. ACKNOWLEDGEMENTS
- N/A
- 8. APPENDIX
 - N/A