

	<b>Grootvlei Power Station</b>	<b>SAP notification №</b>	
		<b>Date</b>	
		<b>№ of pages</b>	

<b>Unit</b>	Chemical Services	<b>Plant area</b>	Chemical Coal -Laboratory
<b>Responsible Department</b>	Chemical services		

**Background:** Grootvlei power station is the coal fired station with currently 3units running. Coal is supplied by trucks from different mines to the coal stock yard then transported with the conveyer belt to the station.

**Objective:** To Provide Analytical Laboratory Services to Grootvlei power station by coal sampling, preparing, analysis and send results daily

## Scope

### Required works

Provide analytical Laboratory Services at Grootvlei Power Station and Vaal dam:

#### Water laboratory sampler duties

Take water samples daily from the following sampling points:

Dams (Around the station and vaal dam)

Water treatment plant

Units and other sampling points within station and vaal dam.

Basic analysis of turbidity and conductivity.

House keeping

#### Coal Laboratory:

A coal laboratory service is needed to analyse coal delivered to the coal stock yard, as well as at various stages throughout the plant (e.g. conveyors, trucks).

Sample collection will be as per agreement with the *Contract Supervisor* at Grootvlei Power Station. Sample collection to be performed as per ISO13909-4. Samples should be kept in airtight containers to prevent moisture loss.

The *Contractor* will prepare the sample as stipulated by ISO and SABS method.

Once a month, the *Contract Supervisor* will direct the *Contractor* to take sets of three samples for proximate analysis, to be prepared and stored in airtight containers and marked clearly with regard to source and date of sample. These samples are for power station analysis, for independent laboratory analysis and one for reference. The frequency of this analysis is subject to change, and will be specified by the *Contract Supervisor*.

**All deviations from the attached scope of work must be approved by Engineering**

Coal samples are to be analysed for size grading, abrasiveness index, hard grove index, total moisture, volatile content, calorific content, ash content and sulphur content. Where applicable an As received, Air Dry and Dry base basis analysis shall be done.

A 1g sample pulverised sample per day to be collected into a sample bottle for each day of the month. This monthly composite sample is to be sent to Eskom Research and Innovation Department (ERID) for Ultimate Analysis.

If necessary, repeat analysis must be done for dispute resolution. Full report to be available within 48 hours after sampling and coal results to be captured on an Eskom database. Coal laboratory results shall be authorised by an *Employer's* employee before they are captured on the Eskom database. The information generated during the contract period shall remain the property of the *Employer* at the end of contract date.

If there is any manual reporting to take place, the format will be agreed upon between the *Contractor* and the *Employer*.

The *Contractor* shall perform adhoc samples for specified parameter analysis for that month on an as and when required basis.

Coal sampling shall be done in all the Incline conveyor on a daily basis. The analysis is required on a daily basis to optimise boiler operation. The *Contractor* will be responsible for analysing (verification) of all the coal mine sample that will be delivered at Grootvlie power station.

## **Technical Evaluation**

### **Analysers supply Technical Evaluation Criteria**

	<b>Technical Tender Returnable</b>	<b>Mandatory for Evaluation</b>
1	SANAS 17025 Accreditation certificate	Mandatory
2		

### **Service Technical Evaluation Criteria**

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	Technical Evaluation Criteria	Weight of Criteria used for Evaluation
1	Method statement of to perform this a job and procedure. ( Coal Procedures )	50%
2	References of similar job ( Min 2 ref: )	20%
3	Minimum experience of 3 years doing the job	30%

#### Rating for Technical Criteria

Rating for Individual Technical Criteria	%
Completely Meets Technical Requirement	100
Mostly Meets Technical Requirement	75
Partially Meets Technical Requirement	50
Mostly Does Not Meet Technical Requirement	25
Does not Meet Technical Requirement	0

#### Threshold

**Suppliers who do not meet threshold of 70% will not be evaluated further.**

	Compiled by
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Name	Thulisile Mathonsi
Signature	
Date	2023/07/31

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