	<p style="text-align: center;">Scope of work</p>	<p style="text-align: center;">Duvha Power Station</p>
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Duvha Power Station
Unit 1–6 Pulverised Fuel Sampling and Particles Grading Scope of Work for a Period Of 36 Months

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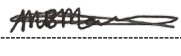
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1. Introduction

Duvha Power Station has six units of which five are operational and each unit consist of 6 mills per unit. Duvha power station boilers are using Pulverise Fuel (PF) for combustion. Mills are the critical system in the boiler plant and requires to be guided by the regulation for optimum and reliable performance. PF sampling is one of the tests that are conducted within the Milling plant to ensure that mills are performing to the acceptable design based standard.-Duvha Power station must comply with FFFR (Fossil fuel fired regulation), this is to ensure the safety of the Employee and machinery.

1.1 Scope

1.1.2 Purpose

The purpose of this document is to define the functional and technical requirements for the PF sampling and particle size analysis on unit 1 – 6 mills. Duvha Power Station required to comply to FFFR regulation.

1.1.3 Applicability

This document shall apply to Duvha Power Station only.

1.1.4 Effective date

The effective date is the date of contract placement.

1.2 Normative/Informative References

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

1.2.2 Normative

[1] ISO 9001 Quality Management Systems ISO 9001 Quality Management Systems

1.2.3 Informative

[2] Not Applicable

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1.3 Definitions

Definition	Description
Contractor/Tenderer	Refers to the company appointed to perform the engineering, procurement, and construction works required for the project.
Employer	Refers to Eskom Holdings State Owned Company.
Specification	The document/s forming part of the contract in which the methods of executing the various items of work to be done is described, as well as the nature and quality of the materials to be supplied and it includes technical schedules and drawings attached thereto as well as all samples and patterns.
The Client	The end user will be Eskom who will be represented by Duvha Power Station throughout the duration of the Project.

1.4 Abbreviations

Abbreviation	Description
FFFR	Fossil Fired Fuel Regulation
PF	Pulverize Fuel
P&T	Performance and Testing
TET	Technical Evaluation Team

1.5 Roles and Responsibilities

Roles	Responsibilities
P&T Senior Tech Function	To fulfil the applicable duties regarding PF sampling test as required by the pf sampling procedures. By requesting service when service is due.
Contractor	To fulfil the conditions of the pf sampling as stipulated on the procedure.

1.6 Process for Monitoring

Not Applicable.

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1.7 Related/Supporting Documents

- Online Sampling procedure PTP007
- PF Grading procedure PTP0023

2. Works Information

2.1 Scope Of Work and Technical Specifications

Test	Units	Quantity	Frequency
PF Sampling & Grading Tests	Unit 1, 2, 4,5, 6 Mill Distribution PF pipe	5 Units	Mill be sampled after three months and as an when required.

2.1.1. Description of the services

- PF sampling and particle size analysis on unit 1 – 6 mills
- Minimum of mills to be sampled per month is ten, if these mills are not available the amount will be reduced to the mills available for sampling and payment done accordingly.
- The PF sampling will be done above 16 ml at mill pf distribution pipe on the running mill at feeder tonnages of 45ton/hrs.

2.1.2. PF Sampling requirements

- Sampling to be done in line with Eskom Procedure PTP007
- PF Grading to be in line to Eskom Procedure PTP0023
- Information from sampling to provide to contract manager in format defined by contracts manager.
- PF Sampler requirements:
- Calibration of PF sampling machine must do once a year and provide proof of certificate to Eskom Contract Manager.
- PF sampler used to be approved for use by Contracts Manager
- Storage of PF sampler will be provided by Eskom.

2.1.3. Staffing requirements

- Staffing to be adequate two experienced assistants and one experienced supervisor.
- Contractor to provide contingency if staff is not available.

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- Sample analysis and grading be done off site. Turnaround time is one week from date of sample.
- Prices will be fixed for the 3-year term and escalations done outside the contract.
- Quality of PF sample analysis and grading to be checked by Eskom once every 2 months'
- 3 NCR's out
- Pricing must be for each mill sampled, unit price.

2.2. Technical Specifications

- The PF sampling will be done above 16 ml at mill pf distribution pipe on the running mill at feeder tonnages of 45ton/hrs.
- The calibration certificate for equipment used to perform the PF sampling to be attached at the final report. Stack pressure and temperature at the dust monitor.
- Sample analysis and grading will performed offsite by their laboratory of their choice. Turnaround time = one week from date of sample.
- Fixed Prices for the 3-year term and escalations done outside the contract.
- Quality of PF sample analysis and grading checked by Eskom once every 2 months
- Calibration of PF sampler to be done yearly and the contractor shall submit the calibration certificate to Eskom's Contract Manager.

2.3. Drawings

Not Applicable.

2.4. SHEQ Requirements

- Contractor shall comply with the SHEQ requirements and shall comply with policies of Duvha Power Station and Eskom Holdings SOC limited.
- Induction programme must have been completed before work on site may commence.
- Employees of the contracting company shall have a valid medical fitness certificate.
- The Contractor shall issue PPE to his employees.
- The Contractor shall have emergency plan that will effectively deal with emergencies on site.
- The Contractor shall be required to conduct a comprehensive HIRA including the following:
 - Identifying reasonably foreseeable hazards that could give rise to the risk.
 - Eliminating the risk so far as is reasonably practicable.
 - If it is not reasonably practicable to eliminate the risk, minimise the risk so far as is reasonably practicable by implementing control measures in accordance with the hierarchy of controls.
 - Maintaining the implemented control measures so that they remain effective.
 - Reviewing, and if necessary, revising risk control measures to maintain, so far as is reasonably practicable.

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2.5. General Requirements

- The *Contractor* will be required to fill in the limited access register (LAR) at the UCR, before commencing with the tests and must be returned upon completion of the day's work.
- The contracting company is required to provide its own test equipment.
- The contracting company shall provide its own transport and ensure compliance to the Eskom vehicle policy.
- The contracting company shall provide its own PPE before commencing any activity on site.

3. Acceptance

This document seen and accepted by:

Name	Designation
Phathu Matumba	P&T Senior Tech Engineering
Uwe Kaphengst	P&T Engineering Manager
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4. Revisions

Date	Rev.	Compiler	Remarks
March 2026	1	Nozipho Mhlanga	Used the latest template

5. Development Team

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

- Mighty Diale
- Nozipho Mhlanga
- Uwe Kaphengst
- Langelihle Nhlabathi

6. Acknowledgements

Not Applicable

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