

CERTIFICATE OF ACCREDITATION

MORUPULE COAL MINE LABORATORY - BOTSWANA

Company Registration No. UIN BW 00000 782 082

Facility Accreditation Number: TEST-5 0050

is a SADCAS accredited Testing Laboratory
provided that all SADCAS conditions are complied with

This certificate is valid as per the scope stated in the accompanying schedule of accreditation,
Annexure "A", bearing the above accreditation number for

CHEMICAL ANALYSIS

The facility is accredited in accordance with the recognized International Standard

ISO/IEC 17025:2017

*The accreditation demonstrates technical competency for a defined scope and the operation
of a laboratory quality management system*

*SADCAS is a subsidiarity organization of SADC. A memorandum of understanding between SADC and
SADCAS serves as the basis for the recognition of SADCAS by SADC Member States
as a multi-economy accreditation body*

Mrs Maureen P Mutasa
SADCAS Chief Executive Officer

Effective Date (Issue No: 1): 19 June 2020

Certificate Expires: 18 June 2025

ANNEXURE A

SCHEDULE OF ACCREDITATION

CHEMICAL ANALYSIS

Laboratory Accreditation Number: **TEST-5 0050 (ISO/IEC 17025:2017)**

<p><u>Permanent Address of Laboratory</u> Morupule Coal Mine Laboratory Along A14 Road Morupule Area Palapye Botswana</p> <p><u>Postal Address</u> Private Bag 35 Palapye Botswana</p> <p><u>Tel</u> : +267 492 0251 <u>Cell</u> : +267 71 317 060 <u>Fax</u> : +267 492 0643 <u>Email</u> : kkeabetswe@mcm.co.bw</p>		<p><u>Technical Signatories</u> : Ms G Kanyeto (All methods) Mr B Ntabe (All methods) Mr J Ramakoloi (Moisture in Analysis Sample) Ms U Rabodietso (Moisture in Analysis Sample)</p> <p><u>Nominated Representative</u> : Ms K Keabetswe</p> <p><u>Issue No</u> : 04 <u>Date of Issue</u> : 06 October 2023 <u>Expiry Date</u> : 18 June 2025</p>
MATERIALS/PRODUCTS TESTED	TYPES OF TESTS/PROPERTIES MEASURED, RANGE OF MEASUREMENT	STANDARD SPECIFICATIONS, EQUIPMENT/ TECHNIQUES USED
Coal	<p>Sample Preparation</p> <p>Determination of Phosphorus</p> <p>Determination of Total Sulphur</p> <p>Calorific Value</p> <p>Moisture in Analysis Sample</p> <p>ISO ASH</p> <p>Determination of Volatile Matter</p> <p>Particle Size Distribution</p>	<p>MCM/LAB/002 WI based on ISO 13909</p> <p>MCM/LAB/014 WI</p> <p>MCM/LAB/014 WI</p> <p>MCM/LAB/007 WI based on ISO 1928</p> <p>MCM/LAB/011 WI based on SANS 5925</p> <p>MCM/LAB/008 WI based on ISO 1171</p> <p>MCM/LAB/006 WI based on ISO 562</p> <p>MCM/LAB/010 WI based on ISO 1953</p>

Original date of accreditation: 19 June 2020

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Pinkie J Malebe
SADCAS Technical Manager