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GEOLOGICAL MODELLING AND RESOURCE ESTIMATION FOR THE RUKWA COAL PROJECT

Report prepared for:
EDENVILLE ENERGY PLC

Report No. SMS/083/13
March 2013

EXECUTIVE SUMMARY

Edenville Energy PLC ("Edenville Energy") has access to two Prospecting Licences and 66 Primary Mining Licences in the Rukwa Coalfield of southwest Tanzania through its acquisition from the Upendo Group Limited in 2010. Edenville initially acquired an in initial 70% interest in the licences and has subsequently exercised its option right and has increased its interest to 90%. The Upendo Group holds the remaining 10% as an undivided, free-carry interest.

Edenville Energy began an initial exploration program within the Rukwa licence areas during the 2011 field season, and undertook a second phase of exploration drilling in 2012. Sound Mining Solution (Pty) Ltd ("Sound Mining") was requested to assist with this second phase of exploration drilling by providing services for borehole logging, database management, geological modelling and coal resource estimation reporting. A preliminary site visit was conducted during June 2012 by senior personnel involved in the project, after which multiple follow-up site visits were made by Mr Pieter Hamman in order to conduct training and project supervision of the site geologists. During these visits the coal sampling of the boreholes was completed under the supervision of Mr Hamman to ensure that all procedures of core and material handling was compliant with internationally accepted quality assurance and quality control (QA/QC) standards. All borehole drilling was complete by the end of 2012, with the last sample analyses received from the laboratories in January 2013.

During the 2011 drilling program 22 boreholes were drilled within the Mkomolo Block and 8 were drilled within the Namwele Block. All work completed in 2011 was completed under the supervision of Wardell Armstong International (“WAI”). WAI made a number of site visits during 2011 to ensure that the company’s exploration work was QA/QC compliant and were responsible for the maiden resource statement published in April 2012. During the 2012 drilling program a further 19 boreholes were drilled within the Mkomolo Block, 4 within the Namwele Block and 5 within the Muze Block.

With this additional data received as a result of the additional drilling conducted in 2012, Sound Mining was able to construct a more detailed geological model than what was previously developed by WAI, which was based on only the 2011 data. The geological modelling conducted by WAI considers the full coal measure interval thickness per borehole, and calculates the average sample yield, weighted on the sampled thickness against the barren interval thickness, and applies this average yield to the coal measure in order to obtain a washed tonnage for the coal measures. The geological modelling conducted by Sound Mining identified coal zones within the coal measures and the structural model was based on these zones. A block model was constructed and the qualities interpolated, using average washed qualities with a yield equal to 0 for the unsampled waste intervals, effectively excluding the waste interburden from the washed product resource estimate and rendering a detailed three dimensional structural and quality model.

In total 6 fault blocks were identified within the Mkomolo Block, with up to four coal zones being identified within the fault blocks. Only a single fault block with a single coal zone was identified at Namwele, and a single fault block with 2 coal zones identified at Muze. With the identification of Sound Mining received guidance from Edenville as to physical parameter cutoffs to be applied to the coal resource model, these being 500m along strike and 500m down-dip from the outer-most boreholes. Raw qualities, qualities at a wash RD of 1.7 and 2.0, and a washed product of CV = 17 MJ/kg were modelled.

The tables below show a summary of the estimated coal resource and the associated qualities. To estimate the total tonnes in situ ("TTIS") from the gross tonnes in situ ("GTIS") geological losses have been applied as follows:

- Measured = 10%
- Indicated = 15%
- Inferred = 20%

The resulting tonnes of product have then been determined by applying the theoretical yield percentage to the tonnes in situ.

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD
Mkomolo	Measured	22,334,200	41,064,546	36,958,091	1.8
	Indicated	58,586,300	109,899,978	93,414,982	1.83
	Inferred	1,307,050	2,404,772	1,923,817	1.79
Namwele	Measured	9,658,350	19,065,363	17,158,826	1.9
	Indicated	7,791,500	15,015,492	12,763,169	1.88
	Inferred	-	-	-	-
Muze	Measured	4,705,150	8,172,498	7,355,248	1.69
	Indicated	2,322,900	4,049,823	3,442,349	1.68
	Inferred	-	-	-	-
TOTAL	Measured	36,697,700	68,302,406	61,472,166	1.79
	Indicated	68,700,700	128,965,293	109,620,499	1.83
	Inferred	1,307,050	2,404,772	1,923,817	1.79

Fault Block	Quality	Quantity (Product Tonnes)	Classification	ASH (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)
Mkomolo	RAW	36,958,091	Measured	66.24	3.43	12.78	17.54	8.52	3.48	100
		93,414,982	Indicated	64.26	3.42	14.78	17.54	8.70	3.73	100
		1,923,817	Inferred	67.74	4.22	14.08	13.96	7.02	3.46	100
	RD=1.7	8,435,750	Measured	25.95	4.62	28.76	39.55	21.29	2.91	22.79
		18,855,411	Indicated	26.60	4.68	28.78	39.02	21.06	3.60	19.97
		431,176	Inferred	25.66	5.09	29.43	38.76	21.39	3.56	22.40
	RD=2.0	13,379,881	Measured	36.31	4.13	25.56	34.01	17.90	2.85	36.17
		31,888,824	Indicated	37.44	4.10	25.37	33.09	17.50	3.55	33.84
		635,187	Inferred	35.09	4.55	26.18	34.19	18.43	3.70	33.00
	CV=17	14,203,821	Measured	37.64	4.02	25.30	32.99	17.43	3.06	38.37
		32,892,965	Indicated	37.84	4.05	25.31	32.75	17.35	3.65	34.92
		748,425	Inferred	37.72	4.38	25.37	32.50	17.46	4.36	38.88
Namwele	RAW	17,158,826	Measured	69.44	3.22	13.34	14.00	6.72	3.69	100
		12,763,169	Indicated	69.73	3.32	12.69	14.25	6.91	4.03	100
		-	Inferred	-	-	-	-	-	-	-
	RD=1.7	1,974,981	Measured	26.11	5.16	29.47	38.00	20.78	4.82	11.51
		1,497,120	Indicated	25.63	5.06	29.73	38.11	20.96	4.66	11.73
		-	Inferred	-	-	-	-	-	-	-
	RD=2.0	4,142,141	Measured	39.03	4.75	24.22	32.00	16.53	4.19	24.14
		2,838,529	Indicated	37.51	4.61	25.25	32.63	17.16	4.35	22.24
		-	Inferred	-	-	-	-	-	-	-

Fault Block	Quality	Quantity (Product Tonnes)	Classification	ASH (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)
	CV=17	3,903,633	Measured	37.29	4.71	25.35	32.43	17.12	4.81	22.75
		2,975,095	Indicated	37.49	4.55	25.39	32.39	17.14	4.70	23.31
		-	Inferred	-	-	-	-	-	-	-
Muze	RAW	7,355,248	Measured	55.38	4.22	18.08	22.32	11.24	3.03	100
		3,442,349	Indicated	55.82	4.39	17.72	22.06	10.95	3.29	100
		-	Inferred	-	-	-	-	-	-	-
	RD=1.7	2,433,319	Measured	28.21	4.78	27.99	37.96	19.85	2.83	32.79
		1,043,958	Indicated	28.40	5.01	27.61	37.75	19.67	2.94	29.93
		-	Inferred	-	-	-	-	-	-	-
	RD=2.0	3,691,527	Measured	39.08	4.24	24.99	31.70	16.46	2.67	49.85
		1,545,746	Indicated	38.13	4.48	25.02	32.37	16.73	2.80	44.46
		-	Inferred	-	-	-	-	-	-	-
	CV=17	3,281,635	Measured	35.78	4.41	26.12	33.66	17.59	2.92	44.09
		1,361,474	Indicated	34.98	4.71	26.15	34.12	17.80	3.01	38.86
		-	Inferred	-	-	-	-	-	-	-

ASH=Ash, IM=Inherent Moisture, VM=Volatile Matter, FC=Fixed Carbon, CV=Calorific Value, TS=Total Sulphur, YLD=Yield, RD=Relative Density

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LIST OF ABBREVIATIONS

Abbreviation	Quantity	Unit
ASH	Ash	%
CP	Competent Person	
CV	Calorific Value	MJ/kg
FC	Fixed Carbon	%
GBIS 7	Geological Borehole Information Systems version 7 by Micromine©	
GTIS	Gross Tonnes in situ	Metric tonnes
IM	Inherent Moisture	%
m	Metres	
m^3	Volume	Cubic metres
Mt	Million Tonnes	Metric tonnes
RD	Relative Density	-
TTIS	Total tonnes in situ	Metric tonnes
TS	Total Sulphur	%
VM	Volatile Matter	%
YLD	Theoretical Yield	%

1. INTRODUCTION

Edenville Energy PLC ("Edenville Energy") currently has access to 2 Prospecting Licences and 66 Primary Mining Licences (Appendix 1) covering 3 known coal deposits namely Mkomolo, Namwele, and Muze of the Rukwa Coalfield, located in southwest Tanzania, through its acquisition from the Upendo Group Limited in 2010. Edenville acquired an initial 70% interest in the licences and has subsequently exercised its option right and has increased its interest to 90%. The Upendo Group holds the remaining 10% as an undivided, free-carry interest. Sound Mining Solution (Pty) Ltd ("Sound Mining") was requested by Edenville Energy to assist with exploration borehole logging, data management, geological modelling and coal resource estimation and reporting of the currently held areas.

1.1. Purpose of the Report

This report has been prepared for Edenville Energy to record all aspects of the project, including the site visit by the Competent Person, the borehole logging and sampling, and the subsequent geological modelling and coal resource estimation. This reporting is based on the JORC standard for the reporting of coal resources.

1.2. Qualifications of Competent Persons and Other Personnel

In order to complete the scope of work, Mr Peet Meyer of PC Meyer Consulting cc. was contracted as a Competent Person ("CP") for coal exploration and coal resource estimation. PC Meyer Consulting is a South African based consultancy that has as its sole proprietor Mr Petrus Cornelius Meyer ("PC Meyer"). PC Meyer has more than 20 years experience in the South African Coal Industry, has B.Sc. Hons. (Geology) and M.Sc (Earth Science Practice and Management) degrees from the University of Pretoria, is a member of the Geological Society of South Africa and Fossil Fuel Foundation.

PC Meyer is a registered natural scientist (Pr. Sci. Nat 400025/03). He is also familiar with and adheres to the South African Minerals and Petroleum Resources Development Act of 2002 (ACT No. 28 of 2002), the JORC, SAMREC and SAMVAL codes and the South African Guide to the Systematic Evaluation of Coal Resources and Coal Reserves (SANS 10320:2004).

Mr Pieter Hamman, who has been working in coal exploration since 1979, was contracted to assist on site with borehole logging and coal sampling. Mr Toni Fernandes of Datamatix cc. was contracted to carry out the data capturing and database compilation. This was done using the commercial software GBIS, "Geological Borehole Information Systems", which allows the capturing of all borehole and associated data into a single, fully auditable, integrated database.

The author, Mrs Diana van Buren, is a geologist with Sound Mining Solution (Pty) Ltd ("Sound Mining") and holds a BSc Honours (Geology) degree from the University of the Witwatersrand, Johannesburg and is a member with the Geological Association of South Africa (“GSSA”). She has 7 years experience in the mining industry, including 5 years in which she has specifically worked on the geological modelling of African coal deposits.

Sound Mining adheres to the JORC, SAMREC and SAMVAL codes for the reporting of mineral resources, as well as to the South African Guide to the Systematic Evaluation of Coal Resources and Coal Reserves (SANS 10320:2004).

1.3. Project Outline

The scope of the work undertaken by Sound Mining included:

- Site visit by the Competent Person;
- Project Plan Development;
- Provision for an on-site geologist to assist with borehole logging and coal sampling;
- Database management and data capturing;
- Geological modelling and coal resource estimation;
- Reporting.

1.4. Project History

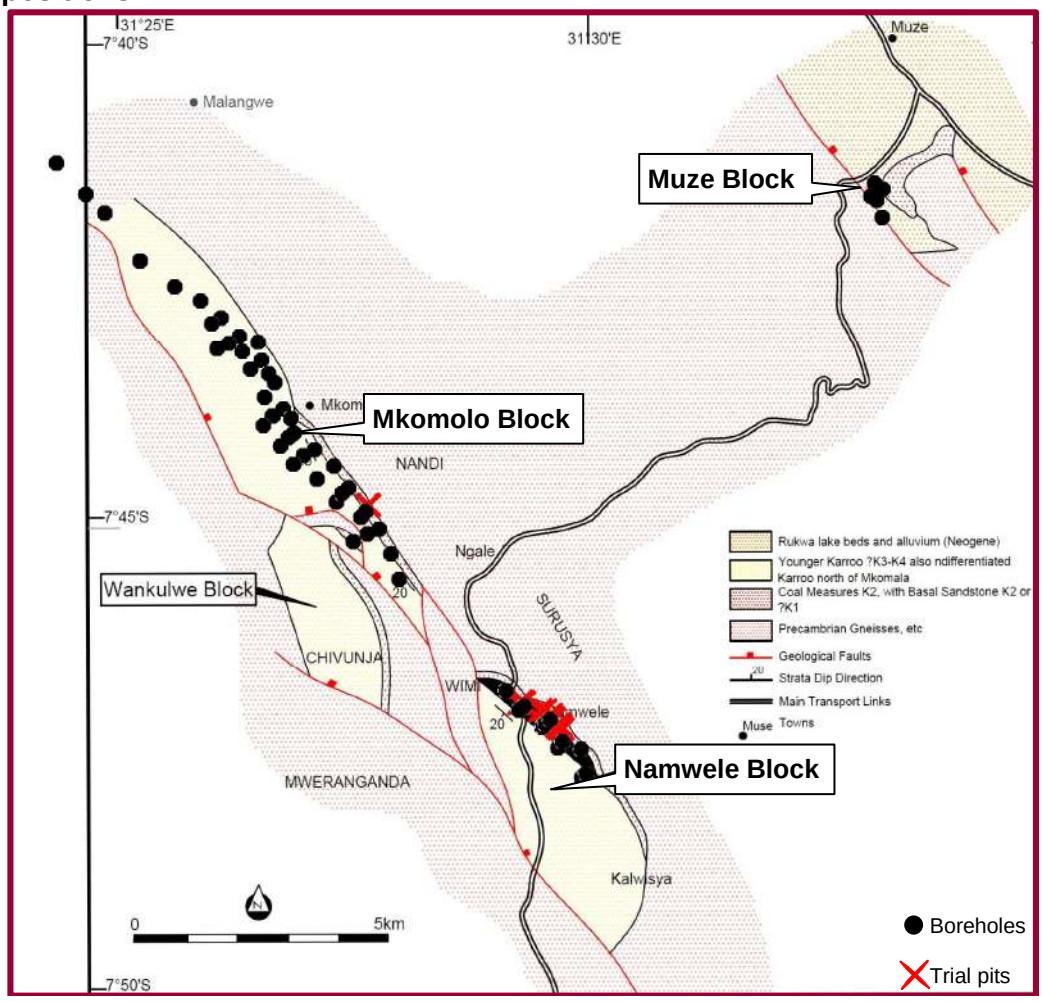
During 2010 Edenville Energy began their exploration within the Rukwa Coalfield with geological mapping and trial pitting of coal outcrops (Figure 1). This work assisted in the development of a borehole drilling program which was completed by the end of 2011 and consisted of 22 boreholes within the Mkomolo Block and 8 boreholes within the Namwele Block. This data was then used by Wardell Armstrong International ("WAI") for geological modelling, from which they released a resource estimate in April 2012. Sound Mining had access to these results in the report by WAI "*Summary Report on the 2011 Coal Exploration in the Mkomolo Block, Rukwa Coalfield, South-West Tanzania*".

An inferred coal resource of approximately 39Mt was declared at calorific value = 17 MJ/kg, with 16Mt being at depths less than 150m.

The WAI report included an update of the regional geology map as found in the report by Semkiwa et al. 1998. Figure 1 shows the regional geology map by WAI which was digitised by Sound Mining and overlain with the 2011 and 2012 borehole and trial pit positions. It should be noted that this map was digitised using points of the Mkomolo and Namwele Blocks, and due to the distortion of lines when converting between a latitude-longitude coordinate system and the UTM system, the borehole positions of Muze, which locate approximately 12km to the east, are displaced approximately 300m west of their true location due to the geo-referencing distortion. This map was digitised in order to investigate the mapped structural locations in the Mkomolo and Namwele Blocks, and has not influenced the coal resource estimate at Muze.

In June 2012 Edenville Energy appointed Sound Mining to assist with the second drilling program and update the coal resource estimation.

Figure 1 - Regional geology map (WAI 2012) overlain with the borehole positions



1.5. Project Location and Description

The Rukwa Coal Project is located in the in the Rukwa Region of southwest Tanzania, between Lake Rukwa and Lake Tanganyika (Figure 2). The project is divided into 3 areas, namely the Mkomolo Block to the north, the Namwele Block to the south, and the Muze Block to the east. The southern-most point of the Namwele Block lies approximately 19km northwest of the regional capital of Sumbawanga which is the closest landing strip to the project area. From Sumbawanga the project area can be accessed via the B8 Road which runs through Ntendo, through Nkundi up to Milundikwa, 16km northwest of the project area.

Figure 2 - Location of the Rukwa Coal Project

2. PROJECT DATA

2.1. Data Management and Database

During the 2011 drilling program 22 boreholes were drilled within the Mkomolo Block and 8 were drilled within the Namwele Block. During the 2012 drilling program a further 19 boreholes were drilled within the Mkomolo Block, another 4 drilled within the Namwele Block and 5 within the Muze Block (Table 1).

Figure 3 - All boreholes within the Mkomolo Block

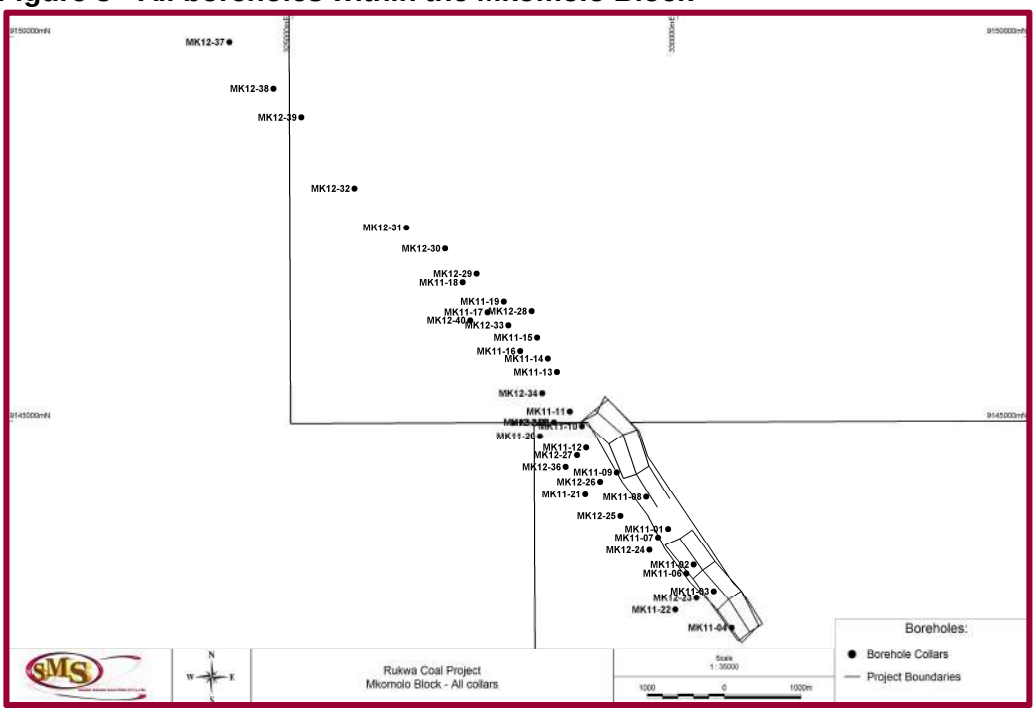


Figure 4 - All boreholes within the Namwele Block

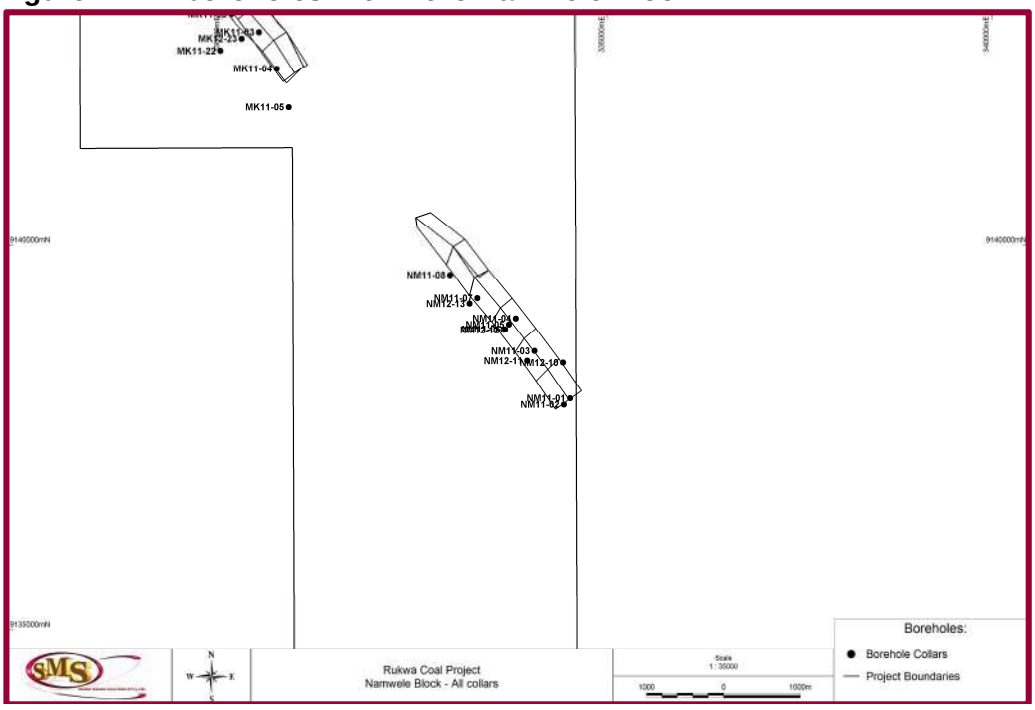
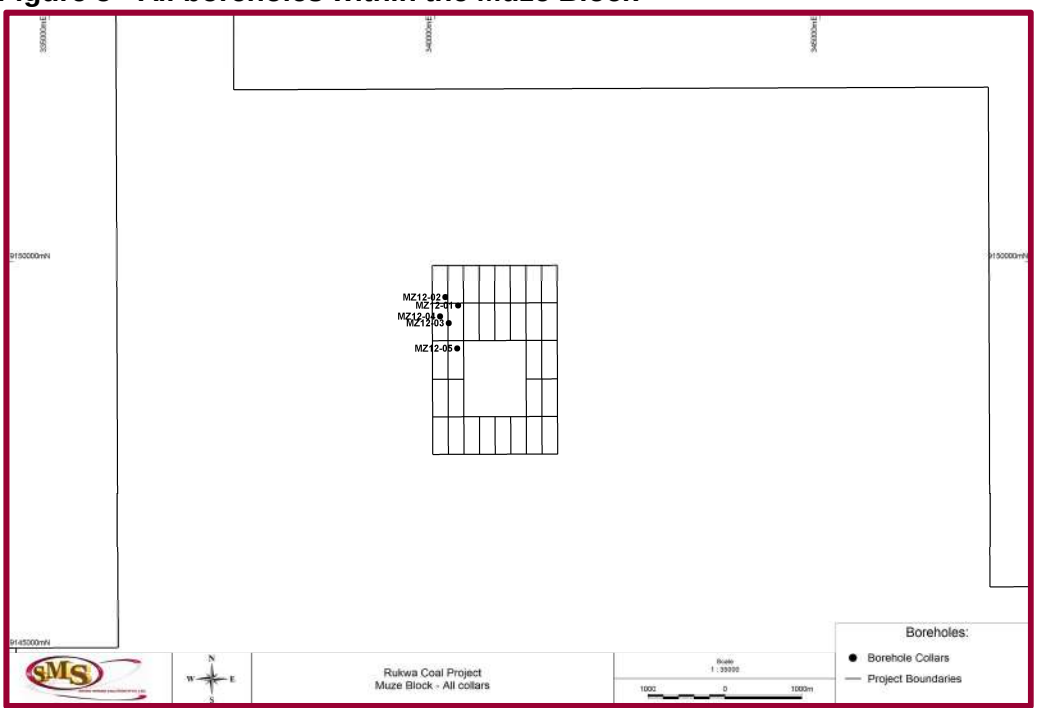


Figure 5 - All boreholes within the Muze Block



During the 2012 drilling program PC Meyer was responsible for quality control and quality assurance of the project to ensure compliance with JORC reporting standards. Tanzanian geologists employed by Edenville Energy provided constant on-site support in terms of supervising the core handling, geological logging of the core and sample handling. Due to the limited amount of coal exploration in that country, training was needed for accurate coal logging and sampling. Training of Edenville Energy staff was the responsibility of PC Meyer, and conducted under the supervision of Mr Pieter Hamman, a highly experienced coal exploration geologist.

Mr Hamman was in charge of the onsite training and supervision of Edenville Energy's geologists and acted in a supervisory role throughout the process (Figure 6). All coal measure and coal seam logging and sampling was carried out by Pieter Hamman and, under Mr Hamman's guidance, all logging of the overburden and interburden was carried out by the local geologists. All borehole coal strata, except the last borehole at Muze, MZ12-05, were logged and sampled by Mr Hamman. After extensive training MZ12-05 was logged and sampled by the on-site geologists.

Figure 6 - On site training with members of Edenville Energy's team and Sound Mining

All the 2012 borehole drilling was completed as diamond wireline core drilling under contract by Layne Drilling Tanzania (Pty) Ltd. All boreholes were drilled as HQ3 size (61.1 mm core diameter) using the triple-tube method to maximise core recovery. All boreholes were drilled vertically and no inclinations are assumed. All borehole collars were surveyed and provided in the UTM ARC 1960 coordinate system.

Once drilling was complete the entire borehole core was packed in core boxes (Figure 7) and transported to the field camp where the lithology was described and logged, with the coal intervals recorded by Mr Hamman. The coal intervals were logged together by the all the geologists and the samples taken and packed into plastic bags and clearly marked.

Figure 7 - Core boxes

Mr Hamman visited the project on 4 occasions between June to November, carrying out the coal interval logging and sampling during these site visits:

- 30 June - 19 July 2012
- 18 August - 27 August 2012
- 25 September - 1 October 2012
- 30 October - 5 November 2012.

All the borehole lithology logs were initially captured onsite in code form into pre-formatted Excel spreadsheets. Once again Pieter Hamman provided the training for the geologists to understand the Excel format and the principle of using codes to record the borehole logging. These spreadsheets where then captured automatically by means of macros into the coal database software GBIS 7 (Geological Borehole Information Systems version 7 by Micromine©) by Mr Toni Fernandes of Datamatix cc.

All the sample bags were sealed with security tags and transported by road on public transport, accompanied by an Edenville Energy representative, to Dar es Salaam from where it was dispatched via DHL Courier Services to the laboratory of Knight Energy Services Limited in the United Kingdom for analyses.

Once these raw and washed quality analyses were returned from the laboratory, the spreadsheets of the results were also sent to Mr Fernandes for capturing into GBIS 7.

Downhole geophysical logging of the boreholes ceased in the early stages of the program due to boreholes collapsing.

Whereas this section focuses on the detail of the 2012 drilling program, all available 2011 data was also imported into the GBIS 7 database to provide a single integrated set of data. This data was provided by Edenville Energy. All coal quality analyses were captured from original laboratory result sheets. There were raw, but no washed qualities available for the following 2011 boreholes:

- MK11-02
- MK11-03
- MK11-04
- MK11-06
- MK11-08
- MK11-09
- MK11-10
- MK11-11

This is consistent with what is reported by WAI.

Table 1 - All borehole collars

Borehole ID	X UTM	Y UTM	Z UTM
Mkomolo Boreholes			
MK11-01	329881.48000	9143588.58000	1694.67000
MK11-02	330212.68000	9143124.20000	1691.20000
MK11-03	330476.09000	9142778.40000	1704.35000
MK11-04	330706.18000	9142306.68000	1702.80000
MK11-05	330865.86000	9141802.45000	1700.38000
MK11-06	330117.95000	9143009.88000	1695.93000
MK11-07	329750.68000	9143477.27000	1704.79000
MK11-08	329596.63000	9144013.43000	1704.43000
MK11-09	329216.10000	9144334.55000	1713.43000
MK11-10	328760.64000	9144934.60000	1712.92000
MK11-11	328602.99000	9145123.17000	1710.23000
MK11-12	328817.61000	9144654.61000	1731.02000
MK11-13	328437.71000	9145638.10000	1721.70000
MK11-14	328320.82000	9145809.69000	1726.54000
MK11-15	328180.21000	9146077.43000	1715.36000
MK11-16	327962.11000	9145905.01000	1751.75000
MK11-17	327536.11000	9146412.57000	1748.89000
MK11-18	327213.82000	9146793.31000	1735.73000
MK11-19	327748.25000	9146549.88000	1736.60000
MK11-20	328216.57000	9144803.01000	1757.74000
MK11-21	328805.06000	9144046.93000	1760.55000
MK11-22	329974.99000	9142539.26000	1702.46000
MK12-23	330250.44000	9142694.40000	1719.62000
MK12-24	329638.99000	9143313.10000	1703.52000

Borehole ID	X UTM	Y UTM	Z UTM
MK12-25	329263.44000	9143762.07000	1735.42000
MK12-26	328999.23000	9144212.42000	1742.54000
MK12-27	328698.83000	9144557.08000	1741.25000
MK12-28	328110.28000	9146426.55000	1720.18000
MK12-29	327394.37000	9146917.94000	1725.38000
MK12-30	326986.86000	9147247.50000	1742.11000
MK12-31	326483.52000	9147522.14000	1745.62000
MK12-32	325808.78000	9148025.68000	1738.16000
MK12-33	327806.49000	9146246.73000	1741.20000
MK12-34	328245.41000	9145356.53000	1741.04000
MK12-35	328400.40000	9144982.39000	1737.91000
MK12-35B	328395.87000	9144984.22000	1737.96000
MK12-36	328550.55000	9144403.93000	1758.51000
MK12-37	324181.86000	9149931.20000	1765.52000
MK12-38	324758.33000	9149323.91000	1753.32000
MK12-39	325119.01000	9148957.76000	1754.27000
MK12-40	327313.03000	9146309.97000	1756.72000
Muze Boreholes			
MZ12-01	340310.00000	9149430.00000	898.00000
MZ12-02	340145.00000	9149535.00000	900.00000
MZ12-03	340190.00000	9149205.00000	905.00000
MZ12-04	340076.00000	9149290.00000	905.00000
MZ12-05	340300.00000	9148870.00000	903.00000
Namwele Boreholes			
NM11-01	334521.04000	9138014.48000	1797.60000
NM11-02	334441.44000	9137931.20000	1792.43000
NM11-03	334058.23000	9138632.59000	1781.04000
NM11-04	333816.53000	9139051.25000	1770.95000
NM11-05	333726.59000	9138972.26000	1766.04000
NM11-06	333677.84000	9138912.15000	1764.36000
NM11-07	333314.96000	9139314.68000	1749.16000
NM11-08	332961.53000	9139617.81000	1754.52000
NM12-10	334430.53000	9138480.54000	1805.36000
NM12-11	333964.75000	9138504.26000	1774.57000
NM12-12	333656.64000	9138904.46000	1761.56000
NM12-13	333214.44000	9139242.87000	1759.72000

2.2. Spatial Data

All borehole collars were surveyed post drilling and provided in the UTM ARC 1960 coordinate system.

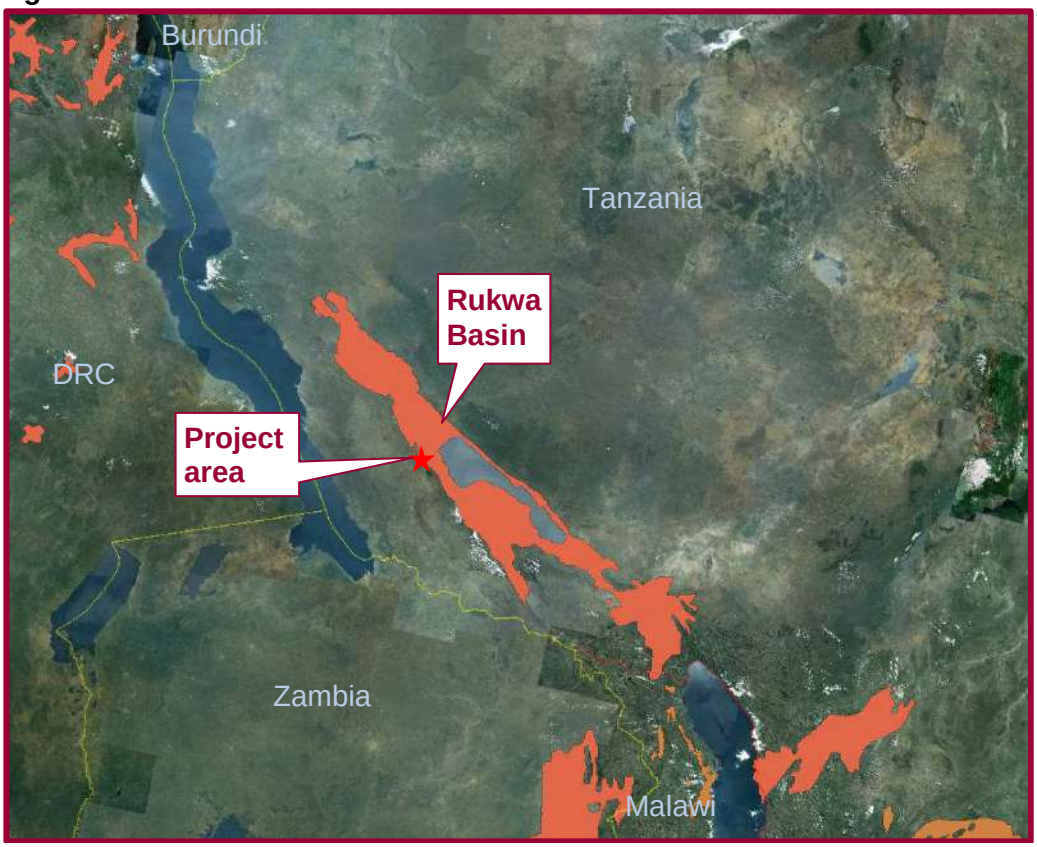
2.3. Geological Data

In preparation for the 2012 drilling program, all available data from the work conducted in 2011 was used. The basic form of the orebody was known at Mkomolo and Namwele; it outcrops within the project area along its strike line and dips at approximately 20° to the southwest. The extent to which faulting affects the orebody is not well understood, but there are clear indications of southwest-northeast trending faults having broken the body along its strike. The area also has northwest-southeast trending faults as can be identified by the water course trending northwest-southeast to the east of the outcrop.

2.4. Regional Geology

The coal-bearing strata within Tanzania are of Permian age and have formed in a series of intracratonic rift basins (Semkiwa et al. 1998). The project area is located within the Rukwa Basin, southwest Tanzania, within a northwest-southeast trending corridor which extends south into Zambia and Malawi (Figure 8). Coal in this region has not formed as distinct seams, but rather as thick interbedded coal packages where the coal plies are interbedded with mudstone and shale.

Figure 8 - Location of the Rukwa Basin



3. SAMPLING AND ANALYSIS

3.1. Coal Sampling Procedures

The guideline issued and followed by Mr Pieter Hamman for all 2012 coal was as follows:

"The minimum borehole core sample width shall be such that the resulting sample mass will satisfy, as far as possible, the analytical requirements, depending on the type of analysis to be undertaken. Therefore, raw coal analyses can accommodate thinner sample intervals than full washability tests. The following procedure serves as a guide and it is up to the logger to use his own discretion defining sample interval and whether coal/mudstone should be included or excluded in the sample above or below.

1. Describe the lithology of the coal and non-coal layers in detail and measure the depth and calculate the thickness of the different layers.
2. If the lithology of the coal is not visible the core must be split lengthwise.
3. Mark out the samples by starting at the bottom of the coal seam working upwards.
4. Coal packages are divided into separate samples on the basis of change in the lithology of the coal seam.
5. The minimum length of a sample shall be not less than 0.30 m and the maximum length not more than 2.50 m. The maximum length of a sample can exceed 2.5 m in cases where there is no or little variation in the lithology of the coal. If a sample is too big for one bag rather split it into separate bags, each with its own from and to depths. Keep the same number for the samples but differentiate it by A, B etc. E.g. MK12-25 A; MK12-25 B.
6. Non-coal layers less than 0.30 m shall also be sampled and include in the sample above or below depending on the total length of the samples.
7. Non-coal layers more than 0.30 m can be discarded or sampled separately depending on the carbon content of the sedimentary rock (carbonaceous mudstone / shale).
8. The description of the sample must include the borehole number, the top and bottom depth and/or the thickness of the sample. e.g. MK12-25/01 for borehole MK12-25 sample 01.
9. It is recommended to use two tags, one inside the sample bag and another one tied on the outside.
10. The sample bags shall be tied properly with cable ties or stapled and stored out of the direct sun."

Once sampling was complete the samples were transferred to Dar es Salaam using public transport, accompanied by an Edenville Energy representative, and from there to Knight Energy Services Limited in the United Kingdom.

3.2. Sample Analysis

All sample analyses are reported on an air-dry basis. The following instructions were issued and followed by the laboratories for the 2011 and 2012 sample analyses:

1. **Basic Analysis**

Analysis: Total Moisture (As Received);
Proximate Analysis (Air Dried) – Moisture, Ash, Volatile Matter, Fixed Carbon;
Total Sulphur (Air Dried), Gross and Net CV (Air Dried), Density (Air Dried).

2. **Float and Sink Analysis**

Crush to 25mm topsize.

Divide off 1/8th and test raw: Total Moisture (As Received); Proximate analysis Air Dried (Moisture, Ash, Volatile Matter, FC); Total Sulphur (AD) and GCV(AD), NCV (AD), Density (AD).

From other 7/8th:
Sieve out fines <0.5mm size (determine %age <0.5mm) and do raw analysis on fines of: Proximate analysis air dried (M, A, VM, FC); Total Sulphur (AD), GCV(AD) and NCV(AD).

On 0.5mm – 25mm size, carry out:
Determine Float and sink @ following floats: 1.3, 1.35, 1.4, 1.45, 1.5, 1.55, 1.6, 1.7, 1.8, 1.9, 2.0, and sinks @2.0.

On each float: Yield%, Proximate analysis air dried (M, A, VM, FC); Total Sulphur (AD), GCV and NCV(AD).

On sink: Yield%, Proximate analysis air dried (M, A, VM, FC); Total Sulphur (AD), GCV and NCV(AD)
All results as Fractionals and Cumulatives.

The 2012 sample analyses were conducted by Knight Energy Services which is a wholly owned subsidiary of the Alfred H. Knight Group of Companies and is ISO/IEC 17025:2005 accredited for several coal sample preparation and analysis test methods.

The laboratory carried out full proximate and ultimate analyses on all samples, both on the raw samples as well as washed fractional analysis.

The results returned for the raw analyses included moisture (%), Ash (%), Volatile matter (%), fixed carbon (calculated %), calorific value (MJ/kg), total sulphur (%), and raw relative density.

The results returned for the washed fractional analyses included float wash fractions for RD=1.30, RD=1.35, RD=1.40, RD=1.45, RD=1.50, RD=1.55, RD=1.60, RD=1.70, RD=1.80, RD=1.90, and RD=2.00. The following qualities were stated: yield (%) moisture (%), Ash (%), Volatile matter (%), fixed carbon (calculated %), calorific value (MJ/kg), and total sulphur (%).

Sample analysis for the 2011 drilling program was done by Inspectorate M&L (Pty) Ltd in Middelburg, South Africa. Both raw analyses and washed fractional analyses were carried out on the same wash fractions as the 2012 samples. The methods used for analysis can be seen in Table 2.

Table 2 - Methods of coal analysis

Method	
H2O %	C030-403-W (Based on SANS 5925)
Volatile %	C030-404-W (Based on ISO 562)
Ash %	C030-401-W (Based on ISO 1171)
Total Sulphur %	C030-402-W (Based on ASTM:D4239)
Gross CV(MJ/kg)	C030-405-W (Based on ISO 1928)
Total Moisture %	C030-406W- Based on ISO 589
Float & Sink	*ISO 7936
Hydrogen %	*C030-408-W (Based on ASTM D5373:08)
Particle size	*ISO 1953
Analysis marked with * NOT SANAS ACCREDITED.	

4. Geological Modelling

4.1. Structural Modelling

In order to begin the structural modelling all available data was imported into the geological modelling software, Micromine 2011, Version 12.5.5 Build 869.

All borehole data was available as a series of files exported from GBIS 7, from the final verified database. This data included:

- All borehole collars
- Borehole lithological logging
- Borehole sampling intervals
- Raw qualities per sample
- Washed fractional analysis per sample

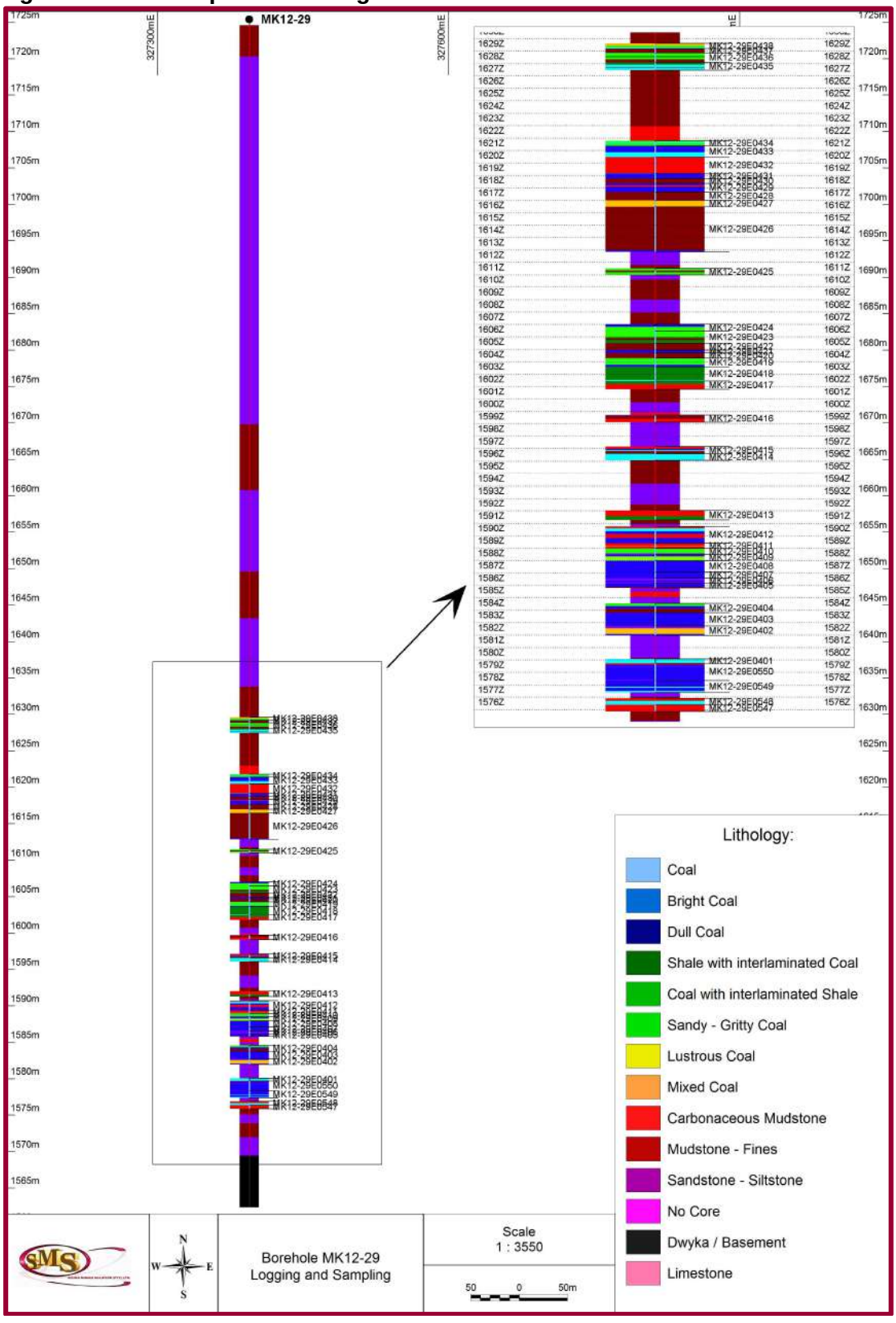
Additional data imported into Micromine© included:

- Prospecting Licence boundaries
- Maps from the WAI report and Semkiwa et al. 1998 were digitised into Micromine©

A borehole database was then created within Micromine consisting of the borehole collars, lithologies, sample intervals and raw and washed qualities. An example of the downhole data for borehole MK12-29 can be seen in Figure 9.

Once all the data had been imported, it was necessary to investigate possible faulting in the area.

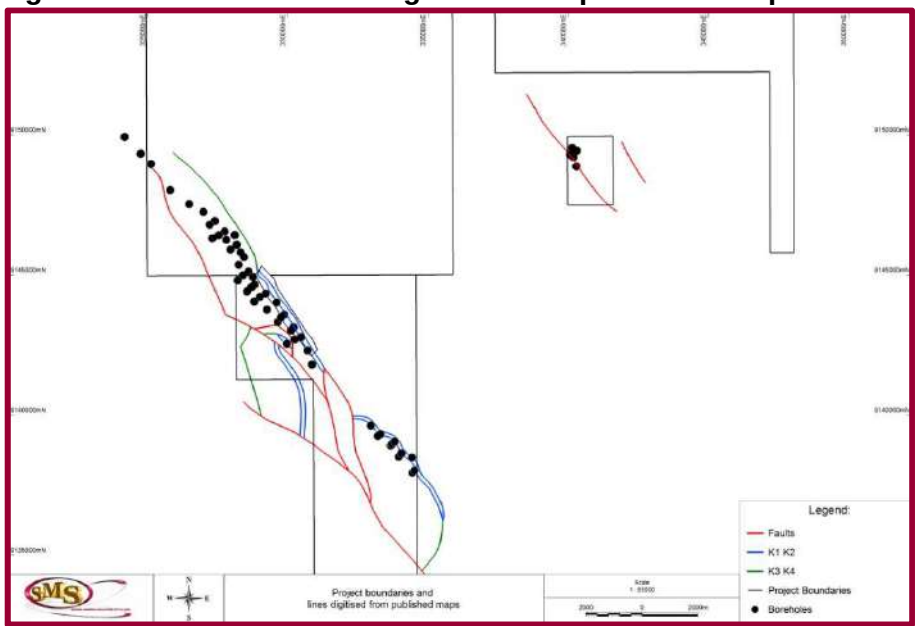
Figure 9 - An example illustrating the data within the borehole database



4.1.1. *Fault Blocks*

In order to investigate possible faulting in the area various data sets were analysed. The first data analysed were the maps found within the WAI report and the report by Semkiwa et al. 1998. The coordinates on these maps, in degrees and minutes , were converted to the UTM ARC 1960 coordinate system. Post conversion, the data points were imported into Micromine and digitised to locate on the correct XY space. The published structures were then included as surface lines within the 3D project (Figure 10). These fault lines were used to guide the structural modelling in terms of the maximum possible extents by which each Block could be modelled.

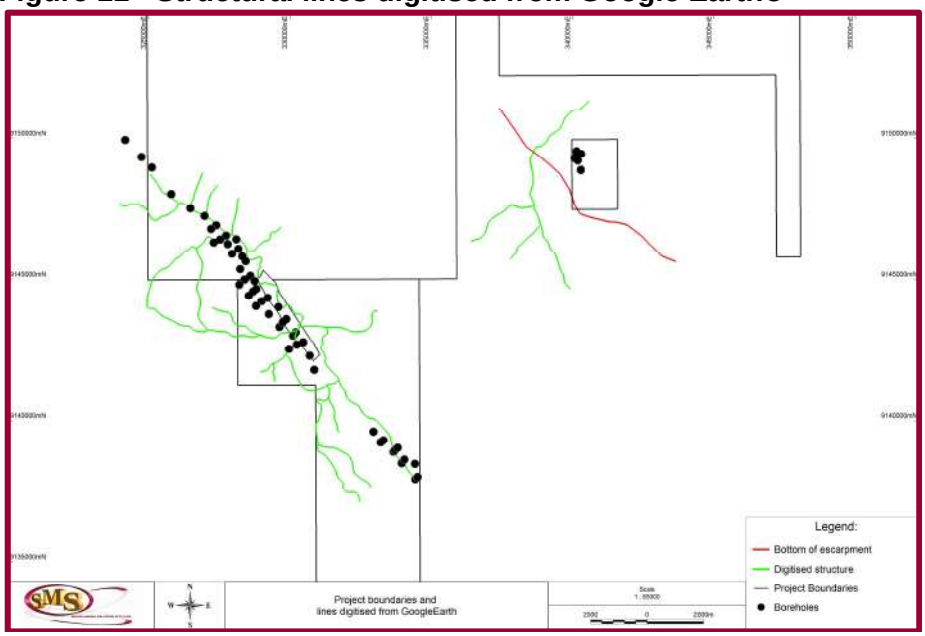
Figure 10 - Structural lines digitised from published maps



The second data set analysed was Google Earth® images. All lineaments delineating possible structures in and near the project area were traced within Google Earth and an image then saved. By using distinct points which could be identified and geo-referenced within the maps and on Google Earth, points from the digitised maps could be assigned to the saved image and this image also digitised and brought into the Micromine project. These lineaments were once again drawn as surface lines within the project (Figure 11).

These lineaments agree with the lineament orientations within the published data. They were also used to identify possible structural orientations within the Blocks.

Figure 11 - Structural lines digitised from Google Earth®



The third data set used to identify possible structures was the borehole and coal sample logging information and descriptions. Section views of the boreholes were viewed along strike and points were identified along strike where distinct changes occur in coal depth and the sample logging (Figure 12). Due to the dip of the coal strata, care was taken that this change in depth was considered in three dimensions, and so was considered more of a change in the orientation of the coal strata as opposed to a change in the absolute depth. Care was also taken to consider possible variations in coal logging due to the logging being done at different time periods and by different geologists. An example from fault block 2 showing corresponding logging from a 2011 and a 2012 borehole can be seen in Figure 13.

Figure 12 - Modelled Faults

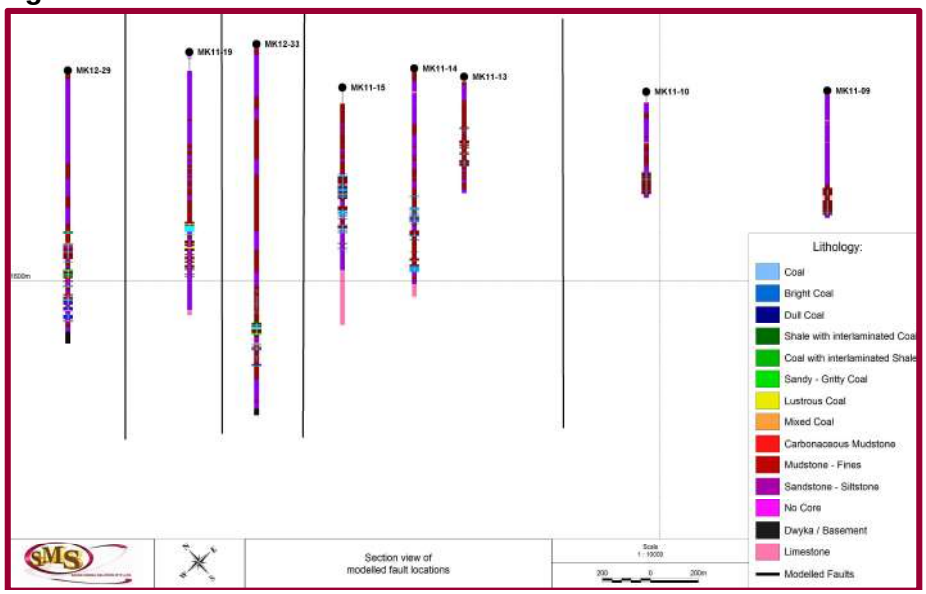
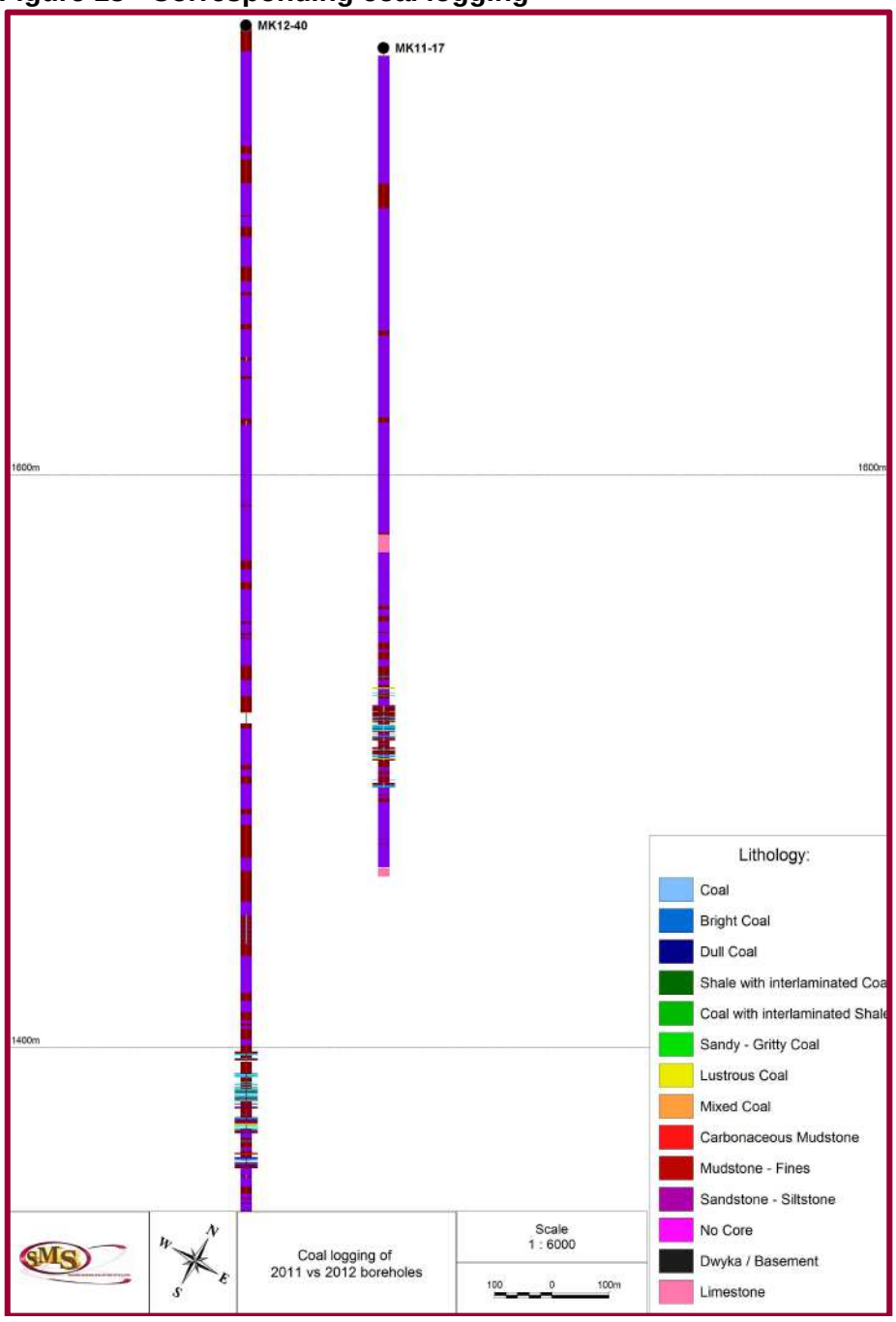
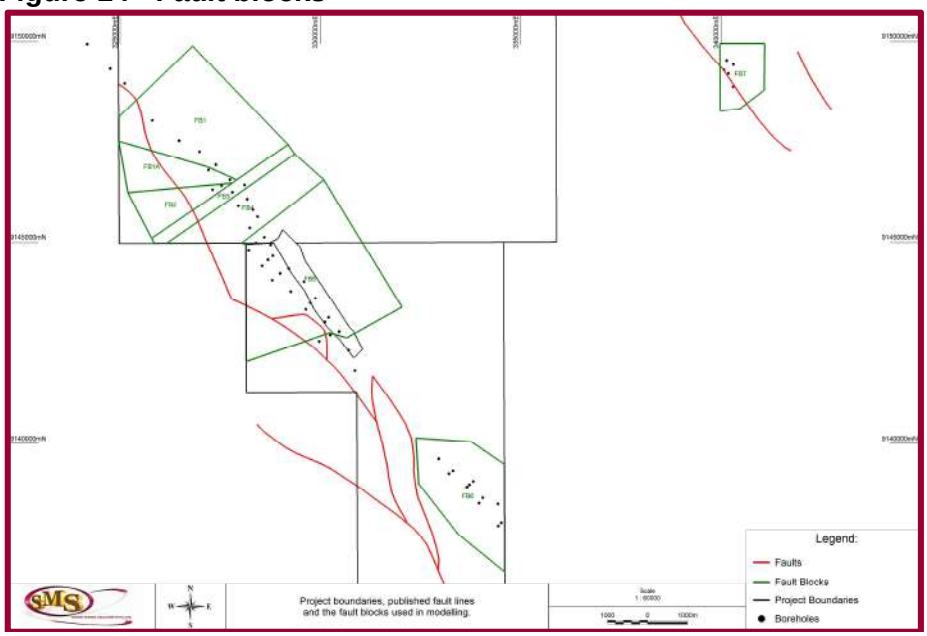


Figure 13 - Corresponding coal logging



The resulting fault blocks used in the modelling process can be seen in Figure 14. Six fault blocks were used to define the areas within the Mkomolo Block, and one each for the Namwele and Muze Blocks. Up to 4 coal zones were identified within the fault blocks.

Figure 14 - Fault blocks



4.1.2. *Coal Zone Roof and Floor Surface Modelling*

Once the fault blocks were established, roof and floor surfaces were constructed for each coal zone within each fault block.

Due to boreholes collapsing, geophysical downhole logging was only completed for one borehole and thus could not be used for coal zone correlation. Thus coal zone correlation was done on a visual basis. The coal zones within the model were numbered from the bottom upwards. Please note that it has not been determined which zones correspond across fault blocks and as such, for example, zone 3 within fault blocks 1, 2, 3 and 4 may or may not be the same horizon.

Table 3 shows the number of coal zones identified within each fault block.

Table 3 - Number of coal zones modelled within each fault block

Fault Block	Coal Zones
1	1, 2, 3, 4
1A	1, 2
2	1, 2, 3, 4
3	1, 2, 3
4	1, 2, 3, 4
5	1
6	1
7	1, 2

Once these coal zone correlations had been decided upon, tie-lines were generated between the top contact points of corresponding zones within fault blocks (Figure 15). Similarly tie-lines were created

between the bottom contact points of corresponding zones within fault blocks. These tie-lines were then extended up and down dip along their "between-borehole" trajectory so that they extended above the borehole collars, 600m down-dip from the deepest borehole intersection across strike at that point, and 500m along strike length from the last borehole (Figure 16). An example from fault block 4 can be seen in Figure 16.

Once these lines had been created, they were used to generate roof and floor surfaces, per coal zone, per fault block. Corresponding roof and floor surfaces were then joined using Micromine's in-built functions to create three dimensional solids. In order to cut these wireframes to the surface topography, the borehole collars were gridded and this surface used as the upper limit (Figure 17).

These wireframes were subsequently assigned into the sample file in order to associate each sample and its qualities with the specific coal zone.

Figure 15 - All Mkomolo tie-lines

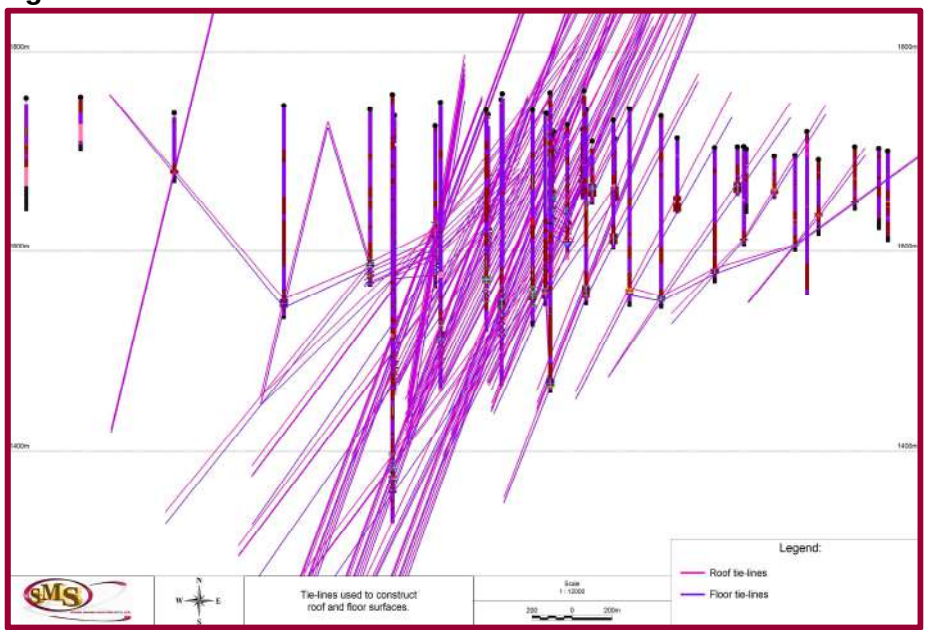


Figure 16 - Zoomed in view of tie-lines used in fault block 4

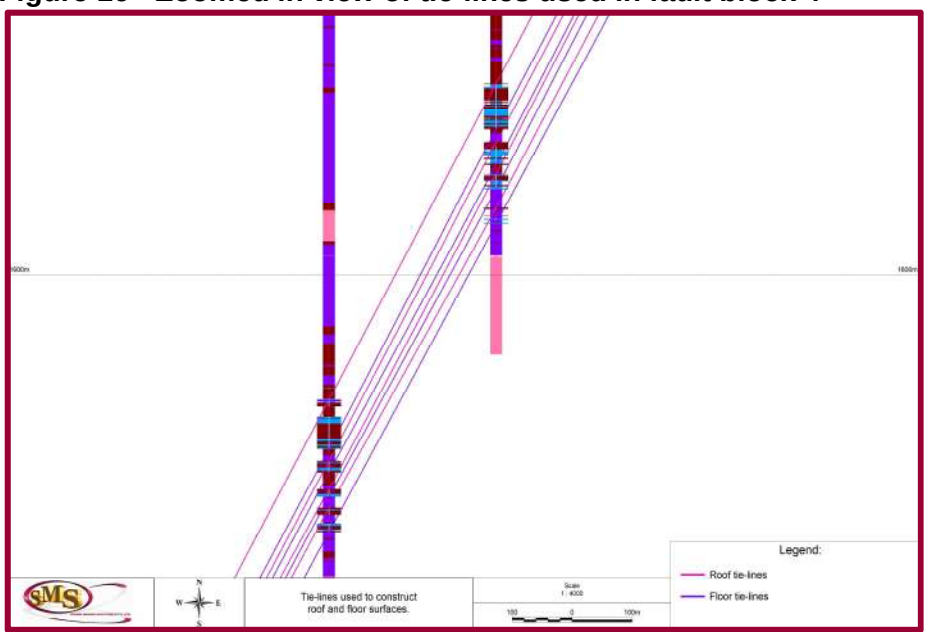
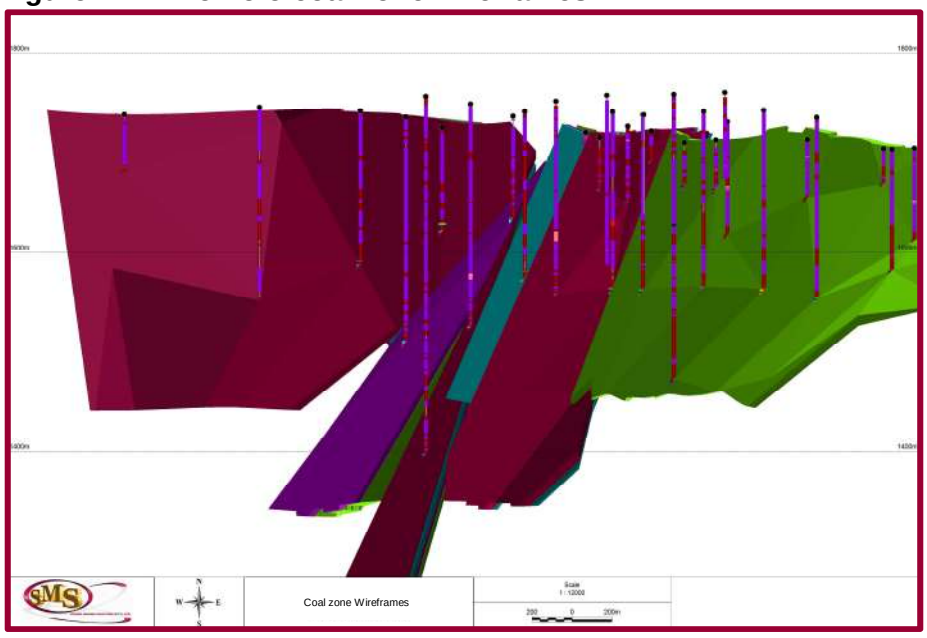


Figure 17 - Mkomolo coal zone wireframes



4.1.3. *Blank Block Model*

Once the wireframe solids had been created, blank block models were created for each wireframe. In order to maintain the structural detail the blocks were created with the dimensions 10m x 10m x 0.5m (XYZ, no rotation). The Z dimension was also chosen to relate to the sample compositing, to be discussed in Section 4.2.1.

4.2. Coal Qualities

4.2.1. *Sample Compositing*

Due to the nature of the coal sampling, only coal intervals were sampled. In order to model the coal qualities into the coal zone wireframes, which by their nature include waste partings, it was necessary to include dummy quality values for these waste intervals. The values assigned can be seen in Table 4. The values for the raw qualities were chosen to represent a poor quality carbonaceous shale, while the washed qualities were calculated from the average sample qualities for that wash and yield assigned to zero. This method for the washed qualities was adopted so that the final qualities for a particular block were not a down-graded product, but the actual product qualities with a lower yield.

Table 4 - Dummy quality values for waste partings

Quality	RD	CV MJ/kg	IM (%)	Ash (%)	VM (%)	FC (%)	TS (%)	YL (%)
Raw	1.85	5.00	3.50	80.00	5.00	11.50	3.80	100
Wash at RD=1.7	1.82	19.31	4.41	26.24	26.57	36.22	3.43	0.00
Wash at RD=2.0	1.82	17.15	4.20	37.97	24.94	32.89	3.61	0.00
Product, CV=17	1.82	17.41	4.14	37.25	25.18	33.23	3.51	0.00

Once the dummy values had been assigned the samples were composited downhole to a 0.5m spacing, corresponding to the average sample width (Figure 18). Using the coal zone wireframes the composited samples were then assigned the corresponding coal zone ID and fault block number (Figure 19).

Figure 18 - Sample Widths

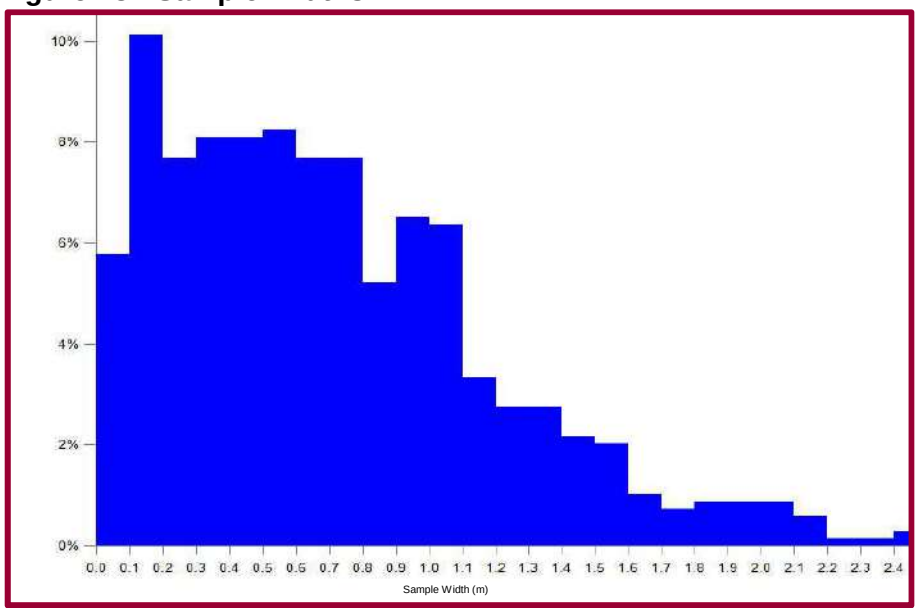
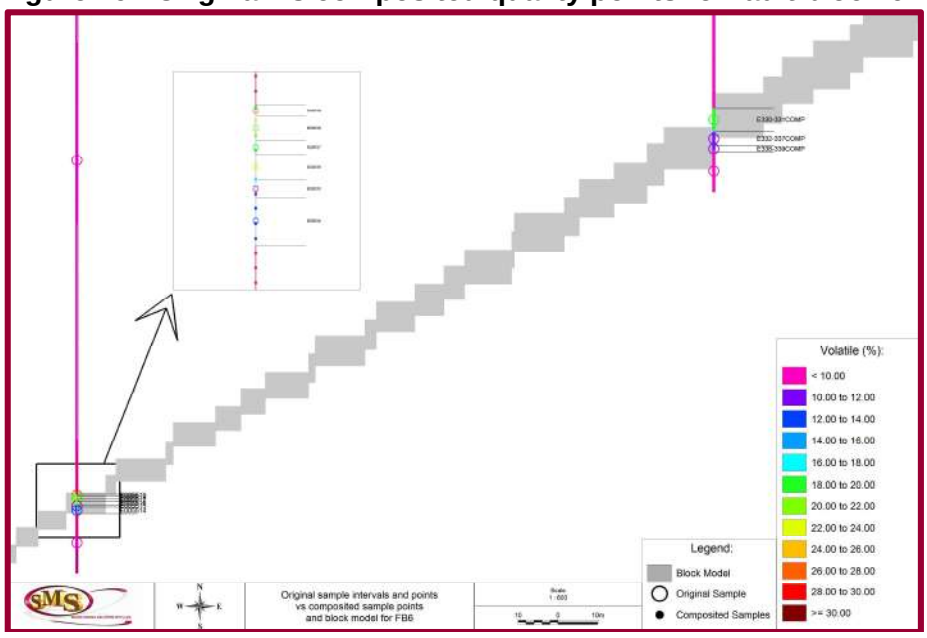


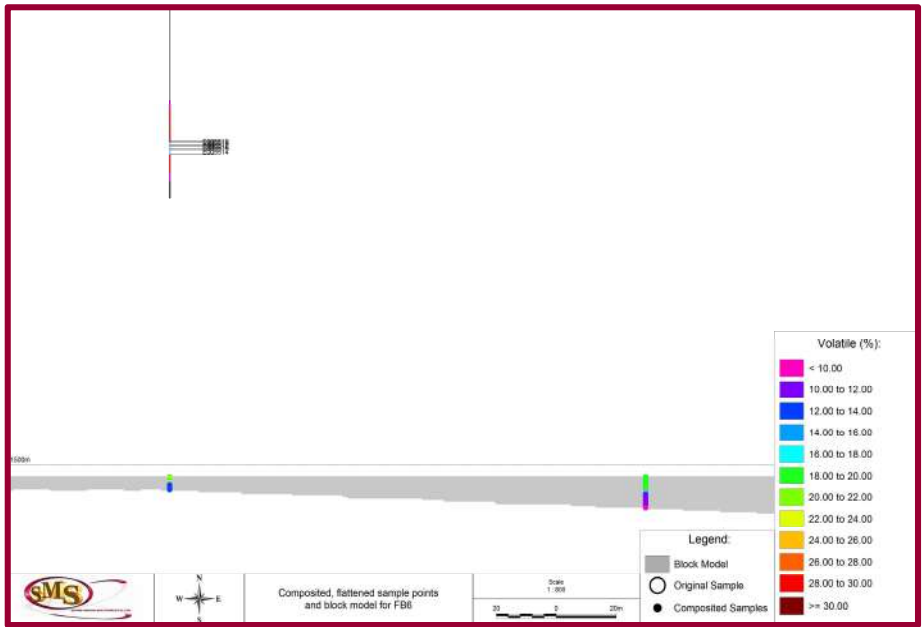
Figure 19 - Original vs composited quality points for fault block 6



4.2.2. *Quality Interpolation*

Because coal is deposited in an essentially flat environment, Micromine's in-built "flattening" function was used to flatten each coal zone per fault block, relative to the top surface, along with its corresponding composited qualities (Figure 20).

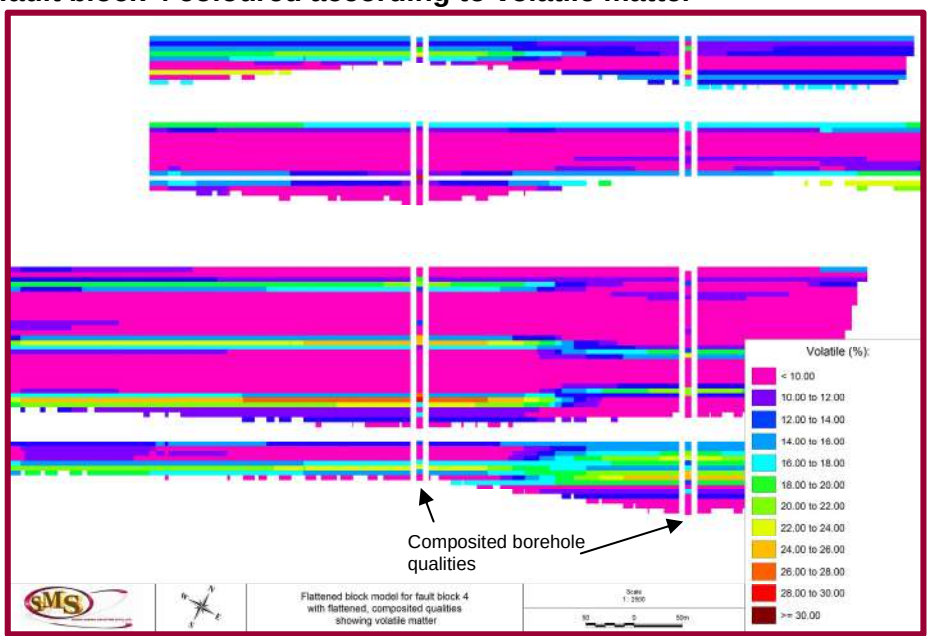
Figure 20 - Flattened composited quality points and block model for fault block 6



During the quality interpolation Sound Mining aimed to preserve the vertical differentiation logged within each borehole. To this end the

composited qualities were interpolated into the flattened block model per coal zone per fault block, using a search ellipse with vertical radius of 0.5m. The X and Y radii were assigned lengths of 700m each to ensure coverage of the entire model. Inverse distance squared was selected for the quality interpolation. Figure 21 shows the modelled volatile matter content of fault block 4. Correlations can be seen between boreholes, based on the horizontal "stripes" of value. This is expected if the corresponding zones and coal plies are matched correctly.

Figure 21 - Flattened block models and composited qualities for fault block 4 coloured according to volatile matter



The following quality sets were investigated:

- Raw
- At a wash RD = 1.7
- At a wash RD = 2.0
- A washed product of CV = 17 MJ/kg

On request by Edenville Energy the block model was restricted to a depth of 500m down dip from the deepest boreholes intersection across strike at that point and 500m along strike from the last borehole intersecting coal. Sound Mining feels that this structural extrapolation is reasonable as it extends the estimated coal resource into the indicated classification (Section 4.3) and is within published fault blocks. On the southern edge of Mkomolo the depth has been restricted further due to boreholes MK11-22 and MK11-23 which intersect basement without intersecting coal. Within the Muze Block the maximum depth is restricted by the property boundary.

The maximum vertical depth is approximately 550m within fault block 2, where borehole MK12-40 has been drilled to a depth of 428.8m. The average depth to which the model extends within the Mkomolo

and Namwele Blocks is approximately 350m, and 260m within the Muze Block.

In order to restrict the block model the dip and dip direction of each fault block was measured and lines of 500m length created, per fault block, starting at surface with these dips and directions. The bottom points of these lines were then joined to create the lowest extent for the block model (Figure 22) and extended along strike for 500m in either direction. An ID was assigned into the block model identifying those blocks which locate above and below this marker.

Figure 22 - 500m down dip lines

4.3. Coal Classifications

Resource classification according to the JORC code states:

- An Inferred Coal Resource is that part of the total Inventory Coal or Coal Resource estimate for which quantity and quality can only be estimated with low levels of confidence. The quantity and quality are inferred using Points of Observation that may be supported by Interpretive Data. Estimates for this confidence category are likely to change significantly with further exploration.
- An Indicated Coal Resource is that part of the total Inventory Coal or Coal Resource for which quantity and quality can be estimated with reasonable levels of confidence, based on information gathered from Points of Observation that may be supported by Interpretive Data. The Points of Observation are sufficient for continuity to be assumed; but are too widely or inappropriately spaced to confirm geological and/or quality continuity.
- A Measured Coal Resource is that part of the total Inventory Coal or Coal Resource for which quantity and quality can be estimated with a high level of confidence, based on information gathered from Points of

Observation that may be supported by Interpretive Data. The Points of Observation are spaced closely enough to confirm geological and/or quality continuity.

In order to classify the resource an investigation into the spatial relationships of the sample points was undertaken by plotting variograms of the data. This was done per fault block, per coal zone on the flattened, composited data. Due to the low number of boreholes within some of the fault blocks, there was insufficient data and so fault block 5 and fault block 6 were used and the relationships were assumed for all fault blocks (Table 5).

Table 5 - Variography results

	Fault Block 5	Fault Block 6
Direction of maximum correlation	132°	120°
Range	1000m	988m
Range at 75% of sill value	390m	440m

The direction of maximum correlation corresponds with the approximate strike of the coal strata, with there being insufficient data in other directions to obtain a robust result. The value of 400m between boreholes was chosen for a measured resource for all fault blocks and 1000m for indicated.

In order to define the classification, boreholes with washed qualities were used. Classifications were determined within fault blocks due to the uncertainty of the correlation of the coal zones (Figure 23 to Figure 25).

Figure 23 - Mkomolo Classification

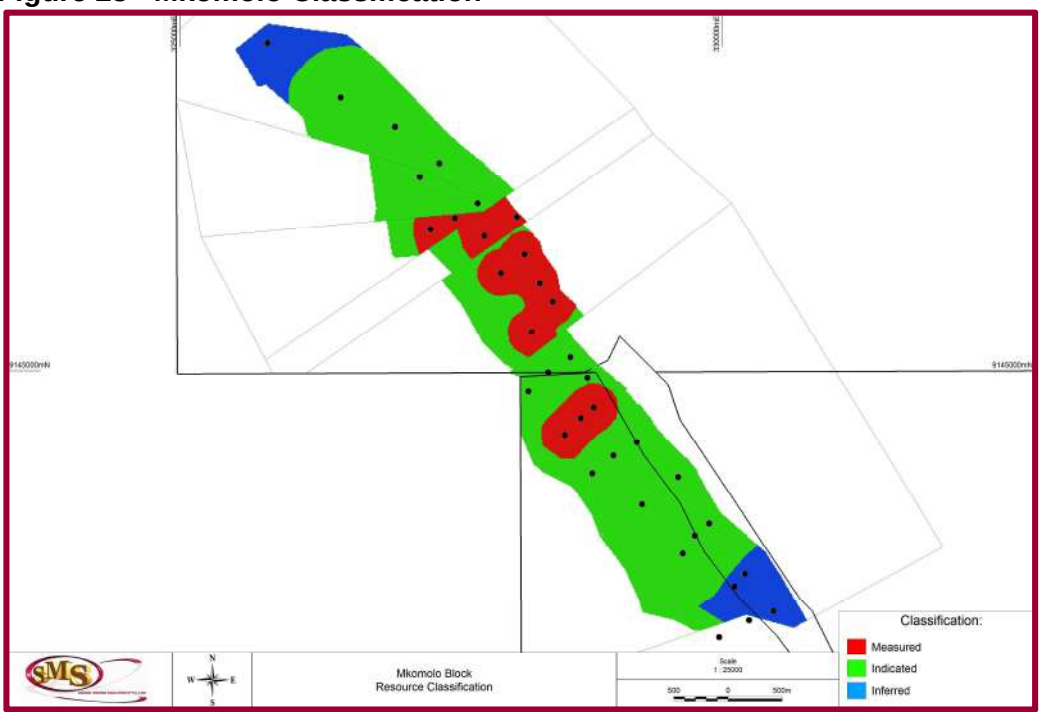


Figure 24 - Namwele Classification

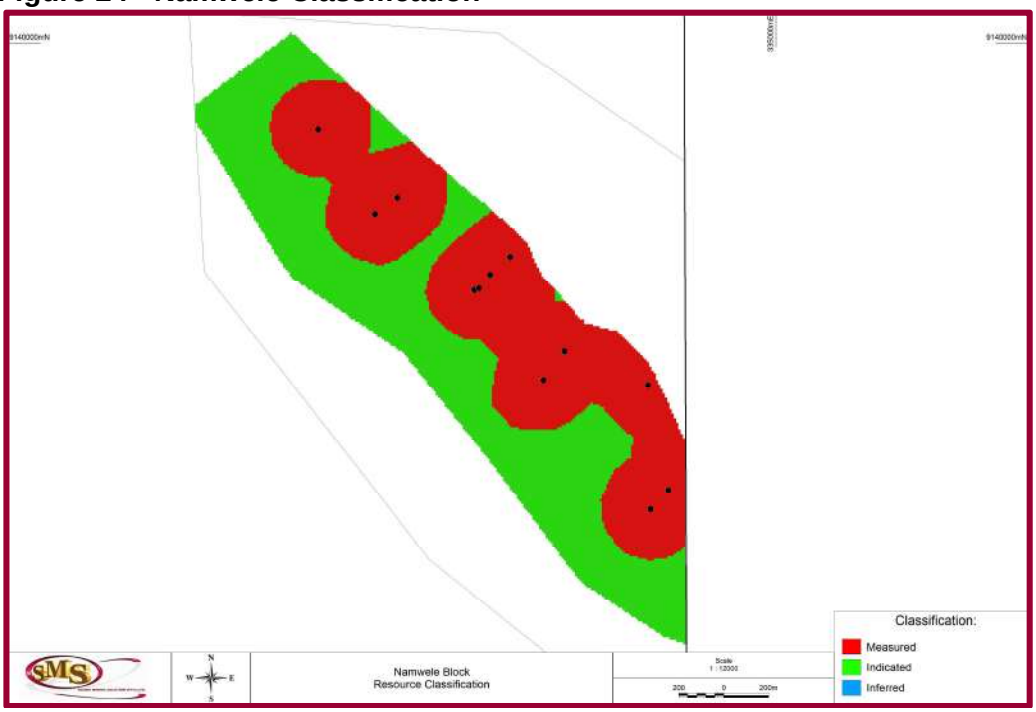
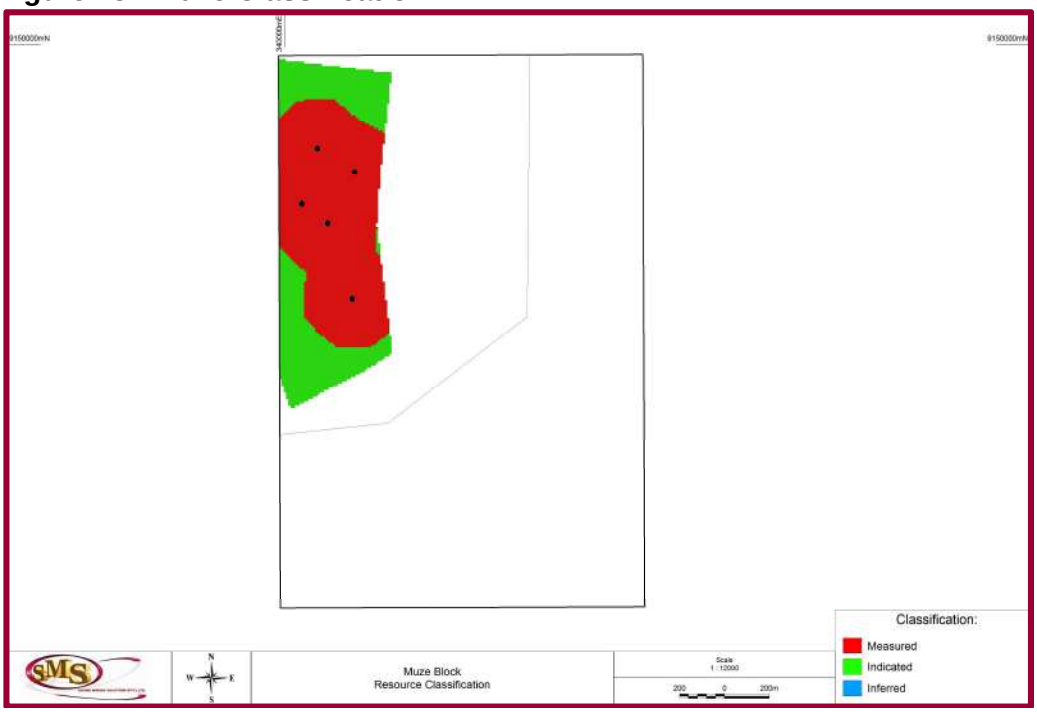


Figure 25 - Muze Classification



5. RESOURCE ESTIMATE

The coal resource estimate for the Rukwa Coal Project can be seen in Table 6 to Table 8. Geological losses due to structural uncertainties and modelling estimates have been applied to the gross in situ tonnes based on the classification:

- Measured - 10%
- Indicated - 15%
- Inferred - 20%

The 2012 Report by WAI declared the inferred coal resource within the Mkomolo Block as 39Mt at a float density of 2.0, CV=17 MJ/kg and a theoretical yield of 26%. The WAI report provided an indication of the tonnage of processed coal that may be obtained from the coal measures once the theoretical yields from the laboratory testing have been applied to the estimates of in situ coal measure tonnages.

Sound Mining have developed a more robust geological model based on the additional borehole data, with the resource estimated within discrete coal zones identified within the overall coal measures as used by WAI. The coal resource can now be estimated as having a combined measured and indicated resource of 57Mt, 46Mt at Mkomolo, 6.9Mt at Namwele and 5.2Mt at Muze at a similar float density of 2.0.

With regards to the tables please note:
RD = relative density
AS = Ash
IM = Inherent moisture
VM = Volatile matter
FC = Fixed carbon
CV = calorific value
TS = Total sulphur
YLD = Yield

Table 6 - Coal resource estimation - Mkomolo

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
FB1 Zone1	Measured	-	-	-	-	Raw	Measured	-	-	-	-	-	-	-	-	-
							Indicated	8,498,627	58.96	3.23	16.27	21.54	10.26	3.83	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	5,452,000	9,998,385	8,498,627	1.76	RD = 1.7 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	1,861,199	27.07	4.62	25.13	42.62	20.94	3.45	21.90	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	3,729,198	37.98	3.90	23.61	34.52	17.03	3.65	43.88	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	-	-	-	-	-	-	-	-	-
							Indicated	3,359,507	36.70	3.95	23.61	35.70	17.59	3.57	39.53	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB1 Zone2	Measured	-	-	-	-	Raw	Measured	-	-	-	-	-	-	-	-	-
							Indicated	688,243	55.53	3.58	21.49	19.40	11.67	5.75	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	446,250	809,697	688,243	1.81	RD = 1.7 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	200,692	34.83	4.64	29.07	30.06	18.16	6.20	29.16	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	383,695	42.01	4.25	27.37	26.37	15.96	6.07	55.75	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	-	-	-	-	-	-	-	-	-
							Indicated	271,168	39.02	4.45	28.37	28.12	17.12	6.52	39.40	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB1 Zone3	Measured	-	-	-	-	Raw	Measured	-	-	-	-	-	-	-	-	-
							Indicated	3,392,956	60.01	3.22	18.05	18.73	9.47	4.69	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7	Measured	-	-	-	-	-	-	-	-	-

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
	Indicated	2,116,750	3,991,713	3,392,956	1.88	Wash	Indicated	445,495	28.94	4.47	28.97	36.99	20.22	5.03	13.13	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	1,304,252	44.87	3.54	23.23	28.36	14.77	4.62	38.44	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	-	-	-	-	-	-	-	-	-
							Indicated	863,507	38.52	3.88	25.35	32.20	17.04	4.84	25.45	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB1 Zone4	Measured	-	-	-	-	Raw	Measured	-	-	-	-	-	-	-	-	-
							Indicated	14,587,180	56.67	3.74	18.64	20.95	10.86	3.50	100.00	15%
							Inferred	1,199,102	73.79	4.39	11.60	10.21	4.93	2.37	100.00	20%
	Indicated	9,359,250	17,161,388	14,587,180	1.81	RD = 1.7 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	4,414,081	26.77	4.84	28.98	38.75	20.92	3.24	30.26	15%
							Inferred	301,814	25.96	5.20	29.39	38.76	21.35	2.98	25.17	20%
						RD = 2.0 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	6,397,937	36.51	4.32	25.58	33.59	17.78	3.05	43.86	15%
	Inferred	817,050	1,498,877	1,199,102	1.79		Inferred	436,833	35.48	4.56	25.91	34.06	18.31	3.03	36.43	20%
						CV = 17 MJ/kg	Measured	-	-	-	-	-	-	-	-	-
							Indicated	6,886,607	37.26	4.26	25.39	33.07	17.50	3.34	47.21	15%
							Inferred	514,415	38.12	4.40	25.10	32.37	17.33	3.53	42.90	20%
FB1A Zone1	Measured	-	-	-	-	Raw	Measured	-	-	-	-	-	-	-	-	-
							Indicated	17,873,341	74.37	3.02	10.12	12.50	5.87	4.14	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	-	-	-	-	-	-	-	-	-
	Indicated	10,546,300	21,027,460	17,873,341	2.01		Indicated	1,152,830	27.24	4.13	28.51	38.83	21.05	3.89	6.45	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	2,704,236	40.01	3.57	24.81	31.61	16.80	3.88	15.13	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
						CV = 17 MJ/kg	Measured	-	-	-	-	-	-	-	-	-
							Indicated	2,698,874	39.25	3.56	25.18	31.93	17.08	3.76	15.10	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB1A Zone2	Measured	-	-	-	-	Raw	Measured	-	-	-	-	-	-	-	-	-
							Indicated	6,279,559	70.55	3.42	10.53	15.50	7.21	3.43	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	-	-	-	-	-	-	-	-	-
	Indicated	3,742,200	7,387,716	6,279,559	1.99		Indicated	1,595,008	23.22	4.89	31.50	40.06	22.61	3.15	25.40	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	-	-	-	-	-	-	-	-	-
							Indicated	2,472,262	33.73	4.38	27.46	34.42	18.83	2.97	39.37	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	-	-	-	-	-	-	-	-	-
							Indicated	3,082,635	38.75	4.09	25.81	31.35	17.02	2.88	49.09	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB2 Zone1	Measured	547,900	994,900	895,410	1.81	Raw	Measured	895,410	67.01	3.54	12.20	17.25	8.57	3.26	100.00	10%
							Indicated	462,451	66.11	3.54	12.77	17.57	8.79	3.20	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	190,543	30.12	4.18	27.41	37.33	20.14	3.41	21.28	10%
	Indicated	301,100	544,060	462,451	1.80		Indicated	98,641	30.34	4.03	27.57	37.17	20.22	3.64	21.33	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	361,298	38.19	3.83	24.61	33.35	17.27	3.38	40.35	10%
							Indicated	188,541	38.49	3.71	24.50	33.28	17.22	3.56	40.77	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	347,543	38.55	3.77	24.90	32.74	17.16	3.17	37.93	10%
							Indicated	179,378	38.71	3.64	24.84	32.75	17.17	3.34	37.85	15%
							Inferred	-	-	-	-	-	-	-	-	-

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
FB2 Zone2	Measured	625,500	1,158,974	1,043,077	1.83	Raw	Measured	1,043,077	72.66	2.80	10.20	14.35	6.03	2.70	100.00	10%
							Indicated	548,561	71.95	2.79	10.38	14.88	6.23	2.61	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	217,169	29.34	4.17	27.01	37.87	20.11	4.12	20.82	10%
	Indicated	352,500	645,366	548,561	1.82		Indicated	114,375	30.06	4.18	26.81	37.73	20.00	4.32	20.85	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	456,868	41.35	3.66	23.95	31.03	16.22	3.54	43.80	10%
							Indicated	241,806	41.60	3.68	23.89	30.82	16.12	3.68	44.08	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	414,440	38.94	3.76	24.45	32.69	17.07	3.68	39.13	10%
							Indicated	210,555	39.08	3.79	24.38	32.66	17.06	3.95	37.65	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB2 Zone3	Measured	1,424,400	2,597,746	2,337,972	1.79	Raw	Measured	2,337,972	72.40	3.39	9.35	14.86	6.79	3.34	100.00	10%
							Indicated	1,304,638	72.54	3.42	9.27	14.77	6.79	3.38	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	712,380	24.22	4.86	29.80	40.26	22.13	2.41	30.47	10%
	Indicated	849,950	1,534,869	1,304,638	1.77		Indicated	408,221	24.10	4.90	29.80	40.28	22.16	2.48	31.29	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	1,068,687	34.26	4.35	26.44	34.96	18.67	2.48	45.71	10%
							Indicated	608,353	34.08	4.39	26.51	35.03	18.74	2.57	46.63	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	1,227,076	38.01	4.13	25.31	32.54	17.36	2.55	52.29	10%
							Indicated	702,899	38.04	4.14	25.30	32.50	17.37	2.63	53.64	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB2 Zone4	Measured	363,000	658,558	592,702	1.80	Raw	Measured	592,702	74.30	3.54	7.80	14.36	6.53	4.11	100.00	10%
							Indicated	422,328	74.41	3.52	7.78	14.29	6.53	4.11	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	96,018	28.54	4.25	26.81	38.57	20.28	2.52	16.20	10%
	Indicated	275,150	496,857	422,328	1.78		Indicated	67,868	29.50	3.96	26.58	38.30	20.16	2.48	16.07	15%

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	130,750	35.70	3.93	25.08	35.29	18.29	2.95	22.06	10%
							Indicated	93,926	36.29	3.67	24.98	35.06	18.23	2.95	22.24	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	149,377	39.07	3.74	23.98	33.19	17.11	3.51	24.62	10%
							Indicated	104,490	39.57	3.48	23.91	33.03	17.10	3.58	23.85	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB3 Zone1	Measured	270,450	482,788	434,510	1.78	Raw	Measured	434,510	57.13	3.91	16.61	22.35	11.05	3.57	100.00	10%
							Indicated	178,049	56.57	4.03	16.51	22.89	11.25	3.34	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	118,100	209,469	178,049	1.77	RD = 1.7 Wash	Measured	143,171	31.11	4.52	25.07	37.67	19.21	2.27	32.95	10%
							Indicated	61,605	30.75	4.59	25.17	38.08	19.36	2.25	34.60	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	234,244	39.25	4.12	23.49	33.14	16.75	2.47	53.91	10%
							Indicated	95,131	37.91	4.25	23.84	34.00	17.17	2.35	53.43	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	217,863	38.24	4.19	23.79	33.74	17.10	2.40	50.14	10%
							Indicated	96,164	38.15	4.22	23.79	33.81	17.09	2.37	54.01	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB3 Zone2	Measured	589,800	1,046,933	942,239	1.76	Raw	Measured	942,239	60.04	3.74	15.95	20.26	9.85	4.36	100.00	10%
							Indicated	223,528	66.29	3.84	11.75	18.11	8.55	4.40	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	146,850	262,974	223,528	1.77	RD = 1.7 Wash	Measured	235,183	28.11	5.11	25.78	39.43	20.01	3.41	24.96	10%
							Indicated	35,608	27.29	5.02	25.95	38.99	19.90	3.43	15.93	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	379,063	36.72	4.59	23.85	34.84	17.48	3.93	40.23	10%
							Indicated	65,740	37.48	4.52	24.03	33.97	17.16	3.93	29.41	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17	Measured	395,364	37.73	4.49	23.58	34.14	17.10	4.20	41.96	10%

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
						MJ/kg	Indicated	59,660	37.30	4.51	24.04	34.06	17.17	4.25	26.69	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB3 Zone3	Measured	1,077,550	1,942,056	1,747,850	1.78	Raw	Measured	1,747,850	52.76	3.48	19.69	24.07	12.31	2.83	100.00	10%
							Indicated	879,862	49.37	3.74	21.18	25.71	13.44	2.86	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	580,800	1,035,132	879,862	1.77	RD = 1.7 Wash	Measured	535,891	27.34	4.62	27.79	39.79	20.90	2.32	30.66	10%
							Indicated	278,828	27.37	4.73	28.12	39.48	20.93	2.23	31.69	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	890,005	39.68	3.99	23.55	32.78	16.72	2.19	50.92	10%
							Indicated	442,659	39.42	4.04	23.94	32.60	16.84	2.18	50.31	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	792,301	38.26	4.06	24.07	33.60	17.20	2.39	45.33	10%
							Indicated	403,769	38.56	4.06	24.29	33.08	17.13	2.28	45.89	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB4 Zone1	Measured	2,053,350	3,593,993	3,234,593	1.59	Raw	Measured	3,234,593	67.53	3.50	11.04	17.93	8.80	3.62	100.00	10%
							Indicated	1,550,323	69.64	3.46	10.33	16.57	8.10	3.60	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	1,031,950	1,823,909	1,550,323	1.61	RD = 1.7 Wash	Measured	607,133	24.78	4.20	27.99	41.74	21.85	2.38	18.77	10%
							Indicated	250,377	25.22	4.17	28.11	41.06	21.63	2.38	16.15	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	735,547	29.76	4.03	27.33	38.88	20.46	2.48	22.74	10%
							Indicated	309,134	30.58	3.99	27.43	38.00	20.15	2.46	19.94	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	795,063	31.61	3.92	26.94	37.49	19.78	2.76	24.58	10%
							Indicated	336,110	32.47	3.89	27.00	36.60	19.46	2.56	21.68	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB4 Zone 2	Measured	989,300	1,946,816	1,752,134	1.97	Raw	Measured	1,752,134	68.60	3.06	12.54	15.80	7.98	4.03	100.00	10%
							Indicated	1,099,783	66.67	3.03	13.52	16.78	8.51	4.10	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
						RD = 1.7 Wash	Measured	317,312	26.04	4.10	28.72	40.39	21.70	3.24	18.11	10%
	Indicated	656,300	1,293,862	1,099,783	2.00		Indicated	189,273	25.77	4.06	27.97	41.43	21.81	3.26	17.21	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	585,738	36.59	3.56	26.78	33.07	18.11	3.34	33.43	10%
							Indicated	341,923	36.03	3.57	26.09	34.32	18.31	3.31	31.09	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	731,866	39.56	3.37	26.30	30.76	17.05	3.88	41.77	10%
							Indicated	445,962	39.54	3.35	25.55	31.53	17.05	3.78	40.55	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB4 Zone3	Measured	2,505,950	4,540,197	4,086,178	1.79	Raw	Measured	4,086,178	61.13	3.45	14.66	20.76	9.97	3.30	100.00	10%
							Indicated	1,727,110	60.98	3.30	15.07	20.65	10.00	3.55	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	1,264,672	27.56	4.47	26.70	40.28	20.74	2.35	30.95	10%
	Indicated	1,104,850	2,031,894	1,727,110	1.83		Indicated	544,040	28.05	4.27	26.50	40.62	20.82	2.34	31.50	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	2,159,136	37.32	4.03	23.82	34.83	17.49	2.41	52.84	10%
							Indicated	966,663	37.74	3.83	23.56	34.87	17.45	2.41	55.97	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	2,194,277	37.88	3.95	23.86	34.27	17.30	2.62	53.70	10%
							Indicated	997,924	38.57	3.75	23.49	34.18	17.16	2.57	57.78	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB4 Zone4	Measured	8,557,350	15,930,844	14,337,760	1.82	Raw	Measured	14,337,760	68.10	3.47	11.58	16.85	8.15	3.67	100.00	10%
							Indicated	8,180,692	66.57	3.49	12.21	17.73	8.60	3.60	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	3,033,870	24.67	4.79	29.79	39.55	21.63	2.74	21.16	10%
	Indicated	5,143,250	9,624,343	8,180,692	1.83		Indicated	1,755,576	25.43	4.46	29.47	39.36	21.45	2.91	21.46	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	4,578,047	35.44	4.25	26.27	34.04	18.13	2.54	31.93	10%
							Indicated	2,589,189	35.66	4.03	26.15	34.15	18.16	2.67	31.65	15%

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	5,052,627	37.41	4.09	25.70	32.74	17.46	2.82	35.24	10%
							Indicated	2,918,053	37.66	3.87	25.53	32.89	17.48	3.02	35.67	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB5 Zone1	Measured	3,329,650	6,170,740	5,553,666	1.83	Raw	Measured	5,553,666	65.00	3.40	15.00	16.60	8.24	3.09	100.00	10%
							Indicated	25,517,751	61.77	3.57	16.84	17.82	9.06	3.56	100.00	15%
							Inferred	724,716	55.90	3.88	18.92	21.30	11.10	5.59	100.00	20%
	Indicated	16,362,750	30,020,884	25,517,751	1.81	RD = 1.7 Wash	Measured	1,082,410	26.06	4.68	30.28	37.76	21.21	4.49	19.49	10%
							Indicated	5,381,694	26.99	4.81	29.22	37.72	20.73	4.38	21.09	15%
							Inferred	129,362	24.96	4.85	29.51	38.76	21.50	4.90	17.85	20%
						RD = 2.0 Wash	Measured	1,800,499	37.33	4.17	26.33	32.17	17.59	4.20	32.42	10%
							Indicated	8,954,179	37.60	4.26	25.71	32.43	17.47	4.22	35.09	15%
							Inferred	198,355	34.24	4.53	26.76	34.47	18.71	5.16	27.37	20%
	Inferred	490,000	905,895	724,716	1.81	CV = 17 MJ/kg	Measured	1,886,025	38.50	4.14	26.12	31.19	17.12	4.25	33.96	10%
							Indicated	9,275,702	37.78	4.24	25.82	32.11	17.33	4.43	36.35	15%
							Inferred	234,011	36.85	4.35	25.96	32.79	17.74	6.17	32.29	20%
TOTAL	Measured	22,334,200	41,064,546	36,958,091	1.80	Raw	Measured	36,958,091	66.24	3.43	12.78	17.54	8.52	3.48	100.00	10%
							Indicated	93,414,982	64.26	3.42	14.78	17.54	8.70	3.73	100.00	15%
							Inferred	1,923,817	67.74	4.22	14.08	13.96	7.02	3.46	100.00	20%
	Indicated	58,586,300	109,899,978	93,414,982	1.83	RD = 1.7 Wash	Measured	8,435,750	25.95	4.62	28.76	39.55	21.29	2.91	22.79	10%
							Indicated	18,855,411	26.60	4.68	28.78	39.02	21.06	3.60	19.97	15%
							Inferred	431,176	25.66	5.09	29.43	38.76	21.39	3.56	22.40	20%
						RD = 2.0 Wash	Measured	13,379,881	36.31	4.13	25.56	34.01	17.90	2.85	36.17	10%
							Indicated	31,888,824	37.44	4.10	25.37	33.09	17.50	3.55	33.84	15%
							Inferred	635,187	35.09	4.55	26.18	34.19	18.43	3.70	33.00	20%
	Inferred	1,307,050	2,404,772	1,923,817	1.79	CV = 17 MJ/kg	Measured	14,203,821	37.64	4.02	25.30	32.99	17.43	3.06	38.37	10%
							Indicated	32,892,965	37.84	4.05	25.31	32.75	17.35	3.65	34.92	15%
							Inferred	748,425	37.72	4.38	25.37	32.50	17.46	4.36	38.88	20%

Table 7 - Coal resource estimation - Namwele

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
TOTAL	Measured	9,658,350	19,065,363	17,158,826	1.90	Raw	Measured	17,158,826	69.44	3.22	13.34	14.00	6.72	3.69	100.00	10%
							Indicated	12,763,169	69.73	3.32	12.69	14.25	6.91	4.03	100.00	15%
							Inferred		-	-	-	-	-	-	-	-
						RD = 1.7 Wash	Measured	1,974,981	26.11	5.16	29.47	38.00	20.78	4.82	11.51	10%
	Indicated	7,791,500	15,015,492	12,763,169	1.88		Indicated	1,497,120	25.63	5.06	29.73	38.11	20.96	4.66	11.73	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	4,142,141	39.03	4.75	24.22	32.00	16.53	4.19	24.14	10%
							Indicated	2,838,529	37.51	4.61	25.25	32.63	17.16	4.35	22.24	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	3,903,633	37.29	4.71	25.35	32.43	17.12	4.81	22.75	10%
							Indicated	2,975,095	37.49	4.55	25.39	32.39	17.14	4.70	23.31	15%
							Inferred	-	-	-	-	-	-	-	-	.

Table 8 - Coal resource estimation - Muze

Fault Block	Classification	Volume	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
FB7 Zone1	Measured	1,991,400	3,571,079	3,213,971	1.72	Raw	Measured	3,213,971	59.81	4.22	15.46	20.51	9.50	3.29	100.00	10%
							Indicated	1,906,359	60.05	4.31	15.40	20.24	9.28	3.55	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	1,248,700	2,242,775	1,906,359	1.72	RD=1.7 Wash	Measured	696,467	32.06	4.47	24.67	37.78	18.56	3.09	21.67	10%
							Indicated	372,884	31.69	4.61	24.25	38.30	18.64	3.14	19.56	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	1,182,741	43.71	3.82	21.96	30.51	14.88	2.72	36.80	10%
							Indicated	628,145	42.84	3.98	21.84	31.34	15.17	2.81	32.95	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	760,425	34.66	4.41	24.29	36.61	17.97	3.52	23.66	10%
							Indicated	395,951	34.26	4.58	23.89	37.23	18.10	3.46	20.77	15%
							Inferred	-	-	-	-	-	-	-	-	-
FB7 Zone2	Measured	2,713,750	4,601,419	4,141,278	1.67	Raw	Measured	4,141,278	51.84	4.21	20.17	23.78	12.63	2.83	100.00	10%
							Indicated	1,535,990	50.37	4.51	20.71	24.42	13.10	2.95	100.00	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Indicated	1,074,200	1,807,047	1,535,990	1.66	RD=1.7 Wash	Measured	1,736,852	26.57	4.91	29.40	38.03	20.40	2.72	41.94	10%
							Indicated	671,074	26.44	5.25	29.60	37.42	20.29	2.82	43.69	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	2,508,786	36.77	4.45	26.49	32.29	17.24	2.64	60.58	10%
							Indicated	917,601	34.68	4.84	27.35	33.13	17.87	2.80	59.74	15%
	Inferred	-	-	-	-		Inferred	-	-	-	-	-	-	-	-	-
						CV = 17 MJ/kg	Measured	2,521,210	36.14	4.41	26.70	32.72	17.47	2.73	60.88	10%
							Indicated	965,523	35.30	4.77	27.15	32.76	17.67	2.81	62.86	15%
							Inferred	-	-	-	-	-	-	-	-	-

Fault Block	Classification	Volume	Quantity (GTIS)	Quantity (TTIS)	RD	Quality	Classification	Quantity (Product Tonnes)	AS (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)	Geological Loss (%)
TOTAL	Measured	4,705,150	8,172,498	7,355,248	1.69	Raw	Measured	7,355,248	55.38	4.22	18.08	22.32	11.24	3.03	100.00	10%
							Indicated	3,442,349	55.82	4.39	17.72	22.06	10.95	3.29	100.00	15%
							Inferred	-	-	-	-	-	-	-	100.00	-
						RD=1.7 Wash	Measured	2,433,319	28.21	4.78	27.99	37.96	19.85	2.83	32.79	10%
	Indicated	2,322,900	4,049,823	3,442,349	1.68		Indicated	1,043,958	28.40	5.01	27.61	37.75	19.67	2.94	29.93	15%
							Inferred	-	-	-	-	-	-	-	-	-
						RD = 2.0 Wash	Measured	3,691,527	39.08	4.24	24.99	31.70	16.46	2.67	49.85	10%
							Indicated	1,545,746	38.13	4.48	25.02	32.37	16.73	2.80	44.46	15%
							Inferred	-	-	-	-	-	-	-	-	-
	Inferred	-	-	-	-	CV = 17 MJ/kg	Measured	3,281,635	35.78	4.41	26.12	33.66	17.59	2.92	44.09	10%
							Indicated	1,361,474	34.98	4.71	26.15	34.12	17.80	3.01	38.86	15%
							Inferred	-	-	-	-	-	-	-	-	-

6. CONCLUSIONS

During the 2012 drilling program an additional 19 boreholes were drilled within the Mkomolo Block, 4 within the Namwele Block and 5 within the Muze Block.

With this additional data received as a result of the additional drilling conducted in 2012, Sound Mining was able to construct a more detailed geological model than what was previously developed by WAI, which was based on only the 2011 data. The geological modelling conducted by WAI considers the full coal measure interval thickness per borehole, and calculates the average sample yield, weighted on the sampled thickness against the barren interval thickness, and applies this average yield to the coal measure in order to obtain a washed tonnage for the coal measures. The geological modelling conducted by Sound Mining identified coal zones within the coal measures and the structural model was based on these zones. A block model was constructed and the qualities interpolated, using average washed qualities with a yield equal to 0 for the unsampled waste intervals, effectively excluding the waste interburden from the washed product resource estimate and rendering a detailed three dimensional structural and quality model.

In total 6 fault blocks were identified within the Mkomolo Block, with up to 4 coal zones being identified within the fault blocks. Only a single fault block and coal zone were identified within the Namwele Block, and a single fault block at Muze divided into two coal zones. The coal resource model was restricted to a maximum depth of 500m down dip from coal intersections within boreholes, and 500m along strike from the furtherest boreholes. Raw qualities, qualities at a wash RD of 1.7 and 2.0, and a washed product of CV = 17 MJ/kg were modelled.

The 2012 Report by WAI declared the coal resource within the Mkomolo Block as 39Mt at a float density of 2.0, CV=17 MJ/kg and a theoretical yield of 26%. Table 9 and Table 10 shows a summary of the coal resource estimate by Sound Mining.

Table 9 - Summary resource table

Fault Block	Classification	Volume (m^3)	Quantity (GTIS)	Quantity (TTIS)	RD
Mkomolo	Measured	22,334,200	41,064,546	36,958,091	1.8
	Indicated	58,586,300	109,899,978	93,414,982	1.83
	Inferred	1,307,050	2,404,772	1,923,817	1.79
Namwele	Measured	9,658,350	19,065,363	17,158,826	1.9
	Indicated	7,791,500	15,015,492	12,763,169	1.88
	Inferred	-	-	-	-
Muze	Measured	4,705,150	8,172,498	7,355,248	1.69
	Indicated	2,322,900	4,049,823	3,442,349	1.68
	Inferred	-	-	-	-
TOTAL	Measured	36,697,700	68,302,406	61,472,166	1.79
	Indicated	68,700,700	128,965,293	109,620,499	1.83
	Inferred	1,307,050	2,404,772	1,923,817	1.79

Table 10 - Summary of coal resource estimate qualities

Fault Block	Quality	Quantity (Product Tonnes)	Classification	ASH (%)	IM (%)	VM (%)	FC (%)	CV (MJ/kg)	TS (%)	YLD (%)
Mkomolo	RAW	36,958,091	Measured	66.24	3.43	12.78	17.54	8.52	3.48	100
		93,414,982	Indicated	64.26	3.42	14.78	17.54	8.70	3.73	100
		1,923,817	Inferred	67.74	4.22	14.08	13.96	7.02	3.46	100
	RD=1.7	8,435,750	Measured	25.95	4.62	28.76	39.55	21.29	2.91	22.79
		18,855,411	Indicated	26.60	4.68	28.78	39.02	21.06	3.60	19.97
		431,176	Inferred	25.66	5.09	29.43	38.76	21.39	3.56	22.40
	RD=2.0	13,379,881	Measured	36.31	4.13	25.56	34.01	17.90	2.85	36.17
		31,888,824	Indicated	37.44	4.10	25.37	33.09	17.50	3.55	33.84
		635,187	Inferred	35.09	4.55	26.18	34.19	18.43	3.70	33.00
	CV=17	14,203,821	Measured	37.64	4.02	25.3	32.99	17.43	3.06	38.37
		32,892,965	Indicated	37.84	4.05	25.31	32.75	17.35	3.65	34.92
		748,425	Inferred	37.72	4.38	25.37	32.50	17.46	4.36	38.88
Namwele	RAW	17,158,826	Measured	69.44	3.22	13.34	14.00	6.72	3.69	100
		12,763,169	Indicated	69.73	3.32	12.69	14.25	6.91	4.03	100
		-	Inferred	-	-	-	-	-	-	-
	RD=1.7	1,974,981	Measured	26.11	5.16	29.47	38.00	20.78	4.82	11.51
		1,497,120	Indicated	25.63	5.06	29.73	38.11	20.96	4.66	11.73
		-	Inferred	-	-	-	-	-	-	-
	RD=2.0	4,142,141	Measured	39.03	4.75	24.22	32.00	16.53	4.19	24.14
		2,838,529	Indicated	37.51	4.61	25.25	32.63	17.16	4.35	22.24
		-	Inferred	-	-	-	-	-	-	-
	CV=17	3,903,633	Measured	37.29	4.71	25.35	32.43	17.12	4.81	22.75
		2,975,095	Indicated	37.49	4.55	25.39	32.39	17.14	4.70	23.31
		-	Inferred	-	-	-	-	-	-	-
Muze	RAW	7,355,248	Measured	55.38	4.22	18.08	22.32	11.24	3.03	100
		3,442,349	Indicated	55.82	4.39	17.72	22.06	10.95	3.29	100
		-	Inferred	-	-	-	-	-	-	-
	RD=1.7	2,433,319	Measured	28.21	4.78	27.99	37.96	19.85	2.83	32.79
		1,043,958	Indicated	28.40	5.01	27.61	37.75	19.67	2.94	29.93
		-	Inferred	-	-	-	-	-	-	-
	RD=2.0	3,691,527	Measured	39.08	4.24	24.99	31.70	16.46	2.67	49.85
		1,545,746	Indicated	38.13	4.48	25.02	32.37	16.73	2.80	44.46
		-	Inferred	-	-	-	-	-	-	-
	CV=17	3,281,635	Measured	35.78	4.41	26.12	33.66	17.59	2.92	44.09
		1,361,474	Indicated	34.98	4.71	26.15	34.12	17.80	3.01	38.86
		-	Inferred	-	-	-	-	-	-	-

7. REFERENCES

Lowman, R.D.W., Birtles, A., *Summary Report on the 2011 Coal Exploration in the Mkomolo Block, Rukwa Coalfield, South-West Tanzania*, 2012, Wardell Armstrong International, ZS700028

Semkiwa, P., Kalkreuth, W., Utting, J., Mayagilo, F., Mpanju, F., Hagemann, H., *The geology, petrology, palynology and geochemistry of Permian coal basins in Tanzania. 1. Namwele - Mkomolo, Muze and Galula coalfields*, 1998, International Journal of Coal Geology 36, p 63 - 110

REPORT SIGNATURE PAGE

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22/03/2013

Date

Appendix 1 - Prospecting Licences and Primary Mining Licences

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF ENERGY AND MINERALS

PROSPECTING LICENCE NO. PL 6101/2009

GRANTED PURSUANT TO
SECTION 29 OF THE MINING ACT, 1998

WHEREAS M/S **Upendo Group Limited** of **P.O. Box 336, Sumbawanga-Tanzania** has fulfilled the conditions for grant of Prospecting Licence pursuant to Section 28 of the Mining Act, 1998;

I, William M. Ngeleja (MP), Minister for Energy and Minerals subject to the provisions of the Mining Act, 1998 and of the regulations thereunder now in force, or which may come into force during the continuance of this Licence, or any renewal thereof and pursuant to the powers conferred upon me under Section 29 of the Mining Act, 1998 hereby grant to M/S **Upendo Group Limited** (hereinafter called the Licensee) a **Prospecting License - All Minerals other than Building Materials and Gemstones,** at Nkomolo - Namwele, in Nkasi and Sumbawanga Districts, over an area described in Annex A (hereinafter called the Licence Area), conferring on the Licensee the right to carry on such prospecting operations and execute such other works as are necessary for that purpose.

This Licence, unless sooner cancelled, suspended or surrendered pursuant to the provisions of the Mining Act, 1998, shall be valid for a period of **thirty six (36)** months, effective from the date of grant.

Granted this 24th day of September 2009

.....

William M. Ngeleja (MP)
MINISTER FOR ENERGY AND MINERALS

1/4

THE UNITED REPUBLIC OF TANZANIA

MINISTRY OF ENERGY AND MINERALS

PROSPECTING LICENCE NO. PLR 5630/2009

GRANTED PURSUANT TO
SECTION 29 OF THE MINING ACT, 1998

WHEREAS M/S **Gulban Mhanze of P.O. Box 5259, Dar es Salaam - Tanzania** has fulfilled the conditions for grant of a Prospecting Licence pursuant to Section 28 of the Mining Act, 1998;

I, William M. Ngeleja (MP), Minister for Energy and Minerals subject to the provisions of the Mining Act, 1998 and of the regulations thereunder now in force, or which may come into force during the continuance of this Licence, or any renewal thereof and pursuant to the powers conferred upon me under Section 29 of the Mining Act, 1998 hereby grant to M/S **Gulban Mhanze** (hereinafter called the Licensee) a licence of type **Prospecting License with Reconnaissance Period-All Minerals other than Building Materials and Gemstones,** at Namwela, in Nkasi and Sumbawanga Districts, over an area described in Annex A (hereinafter called the Licence Area), to carry on such prospecting operations and execute such other works as are necessary for that purpose.
This Prospecting Licence, unless sooner cancelled, suspended or surrendered pursuant to the provisions of the Mining Act, 1998, shall be valid for a period of **twenty four (24) months**, effective from the date of grant.

Granted this 13th day of February 2009

William M. Ngeleja (MP)
MINISTER FOR ENERGY AND MINERALS

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PML 0006404

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 20.8068 sec.	31 deg. 27 min. 13.2588 sec.
B.	07 deg. 44 min 4.1244 sec.	31 deg. 27 min. 7.6644 sec.
C.	07 deg. 44 min 02.0292 sec.	31 deg. 27 min.13.59 sec.
D.	07 deg. 44 min 17.4264 sec.	31 deg. 27 min.18.6012 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

Year 1 ERV No. 2121591 Amount 50,000/= Date 04.05.05
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2010/11 ERV 36119430, Tsh. 100,000/= 21.07.2011
2011/12 ERV 36121788, Tsh. 100000/= 13.12.11

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006403

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 20.8068 sec.	31 deg. 27 min. 13.2588 sec.
B.	07 deg. 44 min 4.1244 sec.	31 deg. 27 min. 7.6644 sec.
C.	07 deg. 44 min 8.0196 sec.	31 deg. 27 min.1.6956 sec.
D.	07 deg. 44 min 22.5276 sec.	31 deg. 27 min.7.7652 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 2121059 Amount 50,000/= Date 04.05.08
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/- Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/- Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/- Date 17.03.10

ZONAL MINES OFFICER P. O. Box 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

2010/11 ERV 3611942 9 Tsh. 100,000/= 21.07.2011
2011/12 ERV 3612 1787, Tsh. 100,000/= 13.10.11

PML 0006402

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 45 min 1.8576 sec.	31 deg. 27 min. 41.2092 sec.
B.	07 deg. 44 min 48.4872 sec.	31 deg. 27 min. 31.5576 sec.
C.	07 deg. 44 min 44.826 sec.	31 deg. 27 min. 36.8532 sec.
D.	07 deg. 44 min 58.2576 sec.	31 deg. 27 min. 46.4688 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

Year 1 ERV No. 21210591 Amount 50,000/= Date 04.05.05
Year 2 ERV No. 25434525 Amount 50,000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.3.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2010/11 GRV 36119428 Tsh. 100 000/= 21.07.11
2011/12, GRV 36121786, Tsh. 100,000/= 13.10.11

RENEWAL
The validity of this licence is renewed up
to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
Zonal Mines Officer (Signature) — Zone: WESTERN
Date: 31.03.2010

PML 0006401

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 35.0052 sec.	31 deg. 27 min. 22.1292 sec.
B.	07 deg. 44 min 20.8068 sec.	31 deg. 27 min. 13.2588 sec.
C.	07 deg. 44 min 17.4264 sec.	31 deg. 27 min. 18.6012 sec.
D.	07 deg. 44 min 31.3332 sec.	31 deg. 27 min. 27.3816 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINER OFFICER P. O. Box 75 MPANDA

05/06 Year 1 ERV No. 2121591 Amount 50000/= Date 04.05.05
06/07 Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

RENEWAL
The validity of this licence is renewed up
to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

2010/11 ERV 36119427 Tsh. 100,000/= 21.07.11
2011/12 ERV 36121789 Tsh. 100,000/= 13.10.11

PML 0006166

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 45 min. 28.0008 sec.	31 deg. 28 min. 0.9984 sec.
B.	07 deg. 45 min. 14.1912 sec.	31 deg. 27 min. 52.1424 sec.
C.	07 deg. 45 min. 19.2168 sec.	31 deg. 27 min. 46.9116 sec.
D.	07 deg. 45 min. 31.7376 sec.	31 deg. 27 min. 56.1996 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

04/05 Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
05/06 Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
06/07 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
07/08 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2009/10, ERV 36119404, Tsh 50000/= 21.07.11
2010/11, ERV 36119420, Tsh 100,000/= 21.07.11

The validity of this licence is renewed up to 2nd NOV. 2014
ERV No: 36101661 Date: 17/03/2010
WESTERN Zone
Zonal Mines Officer (Signature)
Date:

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

PML 0006400

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 45 min 14.1912 sec.	31 deg. 27 min. 52.1424 sec.
B.	07 deg. 45 min 1.8576 sec.	31 deg. 27 min. 41.2092 sec.
C.	07 deg. 45 min 5.4648 sec.	31 deg. 27 min. 37.0836 sec.
D.	07 deg. 45 min 19.2168 sec.	31 deg. 27 min. 46.9116 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR:
ZONAL MINES OFFICER
P. O. Box 75
MPANDA

05/06 Year 1 ERV No. 21210591 Amount 50,000/= Date 04.05.05
06/07 Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
07/8 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2010/11 ERV 36119426 Tsh. 100,000/= 25.07.11
2011/12 ERV 36121784 Tsh 100,000/= 13.02.2011

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006168

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 45 min. 1.8576 sec.	31 deg. 27 min. 41.2092 sec.
B.	07 deg. 44 min. 48.4872 sec.	31 deg. 27 min. 31.5576 sec.
C.	07 deg. 44 min. 51.2124 sec.	31 deg. 27 min. 25.2792 sec.
D.	07 deg. 45 min. 5.4648 sec.	31 deg. 27 min. 37.0836 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

2009/10 36119406 Tsh. 50,000/= 21.07.11
2010/11 36119422 Tsh. 100,000/= 21.07.11

The validity of this licence
to 2nd Nov. 2015
ERV No: 36101661 Date: 17/3/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006167

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 45 min. 14.1912 sec.	31 deg. 27 min. 52.1424 sec.
B.	07 deg. 45 min. 1.8576 sec.	31 deg. 27 min. 41.2092 sec.
C.	07 deg. 44 min. 58.2576 sec.	31 deg. 27 min. 46.4688 sec.
D.	07 deg. 45 min. 10.764 sec.	31 deg. 27 min. 57.6252 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000 Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000 Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000 Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

The validity of this licence is ... to. 2nd Nov. 2015
ERV No: 36101661 Date: 17/3/2010
WESTERN Zone
Zonal Mines Officer (Signature)
Date: 31.03.2010

2009/10, ERV 36119405, Tsh. 50,000/= 21.07.21
2010/11, ERV 36119421, Tsh. 100,000/= 26.07.11

PML 0006165

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 45 min. 28.0008 sec.	31 deg. 28 min. 0.9984 sec.
B.	07 deg. 45 min. 14.1912 sec.	31 deg. 27 min. 52.1424 sec.
C.	07 deg. 45 min. 10.764 sec.	31 deg. 27 min. 57.6252 sec.
D.	07 deg. 45 min. 24.57 sec.	31 deg. 28 min. 6.4344 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1	ERV No. 2123243	Amount	50,000/=	Date	01.07.2009
Year 2	ERV No. 25434525	Amount	50,000/=	Date	21.11.07
Year 3	ERV No. 36101660	Amount	50000/=	Date	17.03.10
Year 4	ERV No. 36101660	Amount	50000/=	Date	17.03.10
Year 5	ERV No. 36101660	Amount	50000/=	Date	17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

2009/10 ERV 3611940 3, Tsh. 50,000/= 21.07.2011
2010/11 ERV 3611941 9, Tsh. 100,000/= 21.07.2011

RENEWAL
The validity of this licence is renewed up to 2nd Nov. 2014
ERV No: 36101661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone

PML 0006399

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 48.4872 sec.	31 deg. 27 min. 31.5576 sec.
B.	07 deg. 44 min 35.0052 sec.	31 deg. 27 min. 22.1292 sec.
C.	07 deg. 44 min 38.3892 sec.	31 deg. 27 min. 16.542 sec.
D.	07 deg. 44 min 51.2124 sec.	31 deg. 27 min. 25.2792 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 2121059 Amount 50,000/= Date 04.05.06
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER P. O

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 12/3/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

2010/11 ERV 36119425, Tsh. 100,000/= 21.07.11
2011/12 ERV ~~36119~~ 36121783, Tsh. 100,000/= 13.10.11

PML 0006398

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 48.4872 sec.	31 deg. 27 min. 31.5576 sec.
B.	07 deg. 44 min 35.0052 sec.	31 deg. 27 min. 22.1292 sec.
C.	07 deg. 44 min 31.3332 sec.	31 deg. 27 min. 27.3816 sec.
D.	07 deg. 44 min 44.826 sec.	31 deg. 27 min. 36.8532 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21210591 Amount 50,000/= Date 04.05.2007
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER P. O. MBEYA

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No. 36101661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31/03/2010

2010/11 ERV 36119424, Tsh. 100,000/= 21.07.11
2011/12 ERV. 36121782, Tsh. 100,000/= 13.10.2011

PML 0006407

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 04.1244 sec.	31 deg. 27 min. 7.6644sec.
B.	07 deg. 43 min 53.6484 sec.	31 deg. 26 min. 55.7124 sec.
C.	07 deg. 43 min 49.3428 sec.	31 deg. 27 min. 1.332 sec.
D.	07 deg. 44 min 2.0292 sec.	31 deg. 27 min. 13.59 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

Year 1 ERV No. 21210591 Amount 50,000/= Date 04.05.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2010/11 ERV 36119433, Tsh. 100,000/= 21.07.11
2011/12 ERV 36121791, Tsh. 100,000/= 13.10.11

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 16.03.2010

PML 0006406

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 42.98 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 49.59 sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 49.59 sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 42.98 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINES OFFICER BOX 75

Year 1 ERV No. 21210591 Amount 50,000/= Date 04.05.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2010/11 ERV 3611943 Tsh. 100,000/= 21.07.2011
~~2011/12 ERV 3612943~~
2011/12 ERV 36121790 Tsh. 100000/= 13.10.11

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006405

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 4.1244 sec.	31 deg. 27 min. 7.6644 sec.
B.	07 deg. 43 min 53.6448 sec.	31 deg. 26 min. 55.7124 sec.
C.	07 deg. 43 min 58.0728 sec.	31 deg. 26 min. 50.4168 sec.
D.	07 deg. 44 min 8.0196 sec.	31 deg. 27 min. 1.6956 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINES OFFICER P. O. BOX 175 MI NDA

Year 1 ERV No. 21210591 Amount 50,000/= Date 04.05.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2010/11, ERV 36119431 Tsh. 100,000/= 21.07.11
2011/12, ERV 36121789 Tsh. 100,000/= 13.10.11

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31/03/2010

PML 0006397

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 44 min 35.0052 sec.	31 deg. 27 min. 22.1292 sec.
B.	07 deg. 44 min 20.8068 sec.	31 deg. 27 min. 13.2588 sec.
C.	07 deg. 44 min 22.5276 sec.	31 deg. 27 min.07.7652sec.
D.	07 deg. 44 min 38.3892 sec.	31 deg. 27 min. 16.542 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 2121059 Amount 50,000/= Date 04.05.07
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

2010/11 ERV 36119423 Tsh 100,000/= 21.7.11
2011/12 ERV 36121781 Tsh 100,000/= 21.7.11

PML 0006408

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Mkomolo area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 36.37 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 42.98 sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 42.98 sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 36.37 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

Year 1 ERV No. 21210591 Amount 50,000/= Date 24.05.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10
2010/11 ERV 36119434 Tsh. 100,000 21.07.11
2011/12, ERV 3612 1792, Tsh. 100,000, 13.10.11

RENEWAL
The validity of this licence is renewed up to 9TH MARCH 2015
ERV No: 36101661 Date: 17/3/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0005549

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwele area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E
A.	07 deg. 46 min. 29.74 sec.	31 deg. 28 min. 52.16 sec.
B.	07 deg. 46 min. 27.6636 sec.	31 deg. 28 min. 58.494 sec.
C.	07 deg. 46 min. 39 sec.	31 deg. 29 min. 13 sec.
D.	07 deg. 46 min. 42 sec.	31 deg. 29 min. 08 sec.

An area of approximately **9.957** Hectares

RENT: Shs.

04/05 Year 1 ERV No. 19764173 Amount 49,785/= Date 16.07.06
05/06 Year 2 ERV No. 21237576 Amount 49785/- Date 21.8.06
06/07 Year 3 ERV No. 36101660 Amount 49785/= Date 17.03.10
07/08 Year 4 ERV No. 36101660 Amount 49785/= Date 17.03.10
08/09 Year 5 ERV No. 36101660 Amount 49785/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

2009/10, ERV 36119402, Tsh 50,000/= 21.07.2011
2010/11, ERV 36119418, Tsh 100,000/= 21.07.2011

RENEWAL
The validity of this licence is renewed up to 4TH JULY 2014
ERV No: 36101661 Date: 17-3-2010
Kaemwe WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31/03/2010

PML 0005548

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwele area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 46 min. 33.76 sec.	31 deg. 28 min. 52.76 sec.
B.	07 deg. 46 min. 29.74 sec.	31 deg. 28 min. 52.16 sec.
C.	07 deg. 46 min. 42 sec.	31 deg. 29 min. 08 sec.
D.	07 deg. 46 min. 49.6848 sec.	31 deg. 29 min. 5.1288 sec.

An area of approximately **9.317** Hectares

RENT: Shs.

Year 1 ERV No. 19764173 Amount 46,585/= Date 16.07.09
Year 2 ERV No. 21232576 Amount 46585/= Date 21.8.06
Year 3 ERV No. 36101660 Amount 46,585/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 46585/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 46585/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

2009/10 ERV 36119401 Tsh 50,000/= 21.07.2011
2010/11, ERV 36119417, Tsh 100,000/= 21.07.2011

RENEWAL
The validity of this licence is renewed up to 04TH July 2014
ERV No: 36101661 Date: 17.03.2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010.

PML 0005547

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 47 min. 34 sec.	31 deg. 29 min. 48 sec.
B.	07 deg. 47 min. 29.6052 sec.	31 deg. 29 min. 52.746 sec.
C.	07 deg. 47 min. 43.21 sec.	31 deg. 30 min. 2.28 sec.
D.	07 deg. 47 min. 46.95 sec.	31 deg. 29 min. 56.94 sec.

An area of approximately **9.879** Hectares

RENT: Shs.

Year 1 ERV No. 19764173 Amount 49395/= Date 16.07.08
Year 2 ERV No. 21232576 Amount 49395/= Date 21.08.06
Year 3 ERV No. 36101660 Amount 49395/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 49395/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 49395/= Date 17.03.10

2009/10 ERV 36115000 Tsh 50,000: 21.07.2011
2010/11, ERV 36119416, Tsh 100,000; 21.07.11

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 04TH JULY 2014
ERV No: 36101661 Date: 17.03.2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0005546

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 47 min. 38.922 sec.	31 deg. 29 min. 43.0692 sec.
B.	07 deg. 47 min. 34 sec.	31 deg. 29 min. 48 sec.
C.	07 deg. 47 min. 46.95 sec.	31 deg. 29 min. 56.94 sec.
D.	07 deg. 47 min. 51.07 sec.	31 deg. 29 min. 51.19 sec.

An area of approximately **9.978** Hectares

RENT: Shs.

Year 1	ERV No.	19764173	Amount	49,890/=	Date 16.07.09
Year 2	ERV No.	21232576	Amount	49,890/=	Date 21.8.06
Year 3	ERV No.	36101660	Amount	49,890/=	Date 17.03.10
Year 4	ERV No.	36101660	Amount	49,890/=	Date 17.03.10
Year 5	ERV No.	36101660	Amount	49,890/=	Date 17.03.10

2009/10, ERV 36114999, Tsh. 50,000/= 21.07.11
2010/11, ERV 36119415, Tsh. 100,000/= 21.07.11

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 04TH July 2014
ERV No: 36101661 Date: 17.03.2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0005545

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 47 min. 21 sec.	31 deg. 29 min. 38 sec.
B.	07 deg. 47 min. 16.7316 sec.	31 deg. 29 min. 43.0008 sec.
C.	07 deg. 47 min. 29.6052 sec.	31 deg. 29 min. 52.746 sec.
D.	07 deg. 47 min. 34 sec.	31 deg. 29 min. 48 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 19764173 Amount 50,000/= Date 16.07.09
Year 2 ERV No. 21232576 Amount 50000/= Date 21.8.06
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2009/10, ERV 36114998 Tsh. 50 000/= 21.07.11
2010/11, ERV 36119414, Tsh. 100,000/= 21.07.11

RENEWAL
The validity of this licence is renewed up to 04TH JULY 2014
ERV No: 36101661 Date: 17.03.2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0005544

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 47 min. 26.6316 sec.	31 deg. 29 min. 34.1268 sec.
B.	07 deg. 47 min. 21 sec.	31 deg. 29 min. 38 sec.
C.	07 deg. 47 min. 34 sec.	31 deg. 29 min. 48 sec.
D.	07 deg. 47 min. 38.922 sec.	31 deg. 29 min. 43.0692 sec.

An area of approximately **9.986** Hectares

RENT: Shs.

Year 1 ERV No. 1976473 Amount 49,930/= Date 16.07.06
Year 2 ERV No. 91032576 Amount 49930/= Date 21.8.06
Year 3 ERV No. 36101660 Amount 49930/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 49930/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 49930/= Date 17.03.10

2009/0 ERV36114997 Tsh 50,000/= 21.07.2011
2010/11, ERV 36119413 Tsh. 100,000/= 21.07.2011

FOR: ZONAL MINES OFFICER P. O. BOX 15 MPANDA

RENEWAL
The validity of this licence is renewed up to 04TH JULY 2014
ERV No: 36101661 Date: 17.03.2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0005543

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

Latitude (S)	Longitude (E)
A. 07 deg. 47 min. 08 sec.	31 deg. 29 min. 28 sec.
B. 07 deg. 47 min. 04 sec.	31 deg. 29 min. 33 sec.
C. 07 deg. 47 min. 16.7316 sec.	31 deg. 29 min. 43.008 sec.
D. 07 deg. 47 min. 21 sec.	31 deg. 29 min. 38 sec.

An area of approximately **9.992** Hectares

RENT: Shs.

Year 1	ERV No. 19764173	Amount 49.960/=	Date 16.07.04
Year 2	ERV No. 21232576	Amount 49960	Date 21.8.06
Year 3	ERV No. 36101660	Amount 49960	Date 17.03.10
Year 4	ERV No. 36101660	Amount 49960	Date 17.03.10
Year 5	ERV No. 36101660	Amount 49960	Date 17.03.10

2009/10, ERV 36114996 Tsh. 50,000/= 21.7.2010
2010/11 ERV 36119412, Tsh. 100,000/= 21.7.10

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL

The validity of this licence is renewed up to 4TH JULY 2014

ERV No: 36101661 Date: 17.03.2010

Zonal Mines Officer (Signature) — WESTERN Zone

Date: 31.03.2010

PML 0005542

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 47 min. 13.9524 sec.	31 deg. 29 min. 24.3456 sec.
B.	07 deg. 47 min. 08 sec.	31 deg. 29 min. 28 sec.
C.	07 deg. 47 min. 21 sec.	31 deg. 29 min. 38 sec.
D.	07 deg. 47 min. 26.6316 sec.	31 deg. 29 min. 34.1268 sec.

An area of approximately **9.982** Hectares

RENT: Shs.

Year 1 ERV No. 19764173 Amount 49910/= Date 16.3.06
Year 2 ERV No. 21232576 Amount 49910/= Date 21.8.06
Year 3 ERV No. 36101660 Amount 49910/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 49910/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 49910/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA FOR

RENEWAL
The validity of this licence is renewed up to 4TH July 2014
ERV No: 36101661 Date: 17.03.2010
Kaemul WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31/03/2010

2009/10 ERV 36 114995 ~~ERV 36 114995~~ Tsh 50000/= 21.7.11
2010/11 ERV 36 114941 Tsh 100000/= 21.07.11

PML 0005541

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 46 min. 55 sec.	31 deg. 29 min. 17 sec.
B.	07 deg. 46 min. 52 sec.	31 deg. 29 min. 23 sec.
C.	07 deg. 47 min. 04 sec.	31 deg. 29 min. 33 sec.
D.	07 deg. 47 min. 08 sec.	31 deg. 29 min. 28 sec.

An area of approximately **9.972** Hectares

RENT: Shs.

Year 1 ERV No. 19764173 Amount 49,860/= Date 16.07.06
Year 2 ERV No. 21232576 Amount 49860/= Date 21.8.06
Year 3 ERV No. 36101660 Amount 49860/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 49,860/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 49860/= Date 17.03.10

2009/10, ERV 36114994, Tsh. 50,000/= 21.07.11 Renewed
2010/11, ERV 36119410 Tsh. 100,000/= 21.07.11 Renewed

FOR ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 4TH JULY 2014
ERV No. 36101661 Date 17.03.2010
Renewed. WESTERN
Zonal Mines Officer (Signature) Zone
Date 31.03.2010

PML 0005540

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 47 min. 2.8248 sec.	31 deg. 29 min. 14.8812 sec.
B.	07 deg. 46 min. 55 sec.	31 deg. 29 min. 17 sec.
C.	07 deg. 47 min. 08 sec.	31 deg. 29 min. 28 sec.
D.	07 deg. 47 min. 13.9524 sec.	31 deg. 29 min. 24.3456 sec.

An area of approximately **9.955** Hectares

RENT: Shs.

04/05 Year 1 ERV No. 19764173 Amount 49775/= Date 16.8.04
05/06 Year 2 ERV No. 21232576 Amount 49775/= Date 21.8.06
06/07 Year 3 ERV No. 36101660 Amount 49775/= Date 17.03.10
07/08 Year 4 ERV No. 36101660 Amount 49775/= Date 17.03.10
08/09 Year 5 ERV No. 36101660 Amount 49775/= Date 17.03.10

2009/10 ERV 36114993, Tsh. 50,000/= 21.07.10 Encup.
2010/11, ERV 36119409, Tsh. 160,000/= 21.07.10 Encup.

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

MINISTRY OF ENERGY AND MINERALS

RENEWAL
The validity of this licence is renewed up to 4TH JULY 2014
ERV No: 36101661 Date: 17.03.2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0005539

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 46 min. 42 sec.	31 deg. 29 min. 08 sec.
B.	07 deg. 46 min. 39 sec.	31 deg. 29 min. 13 sec.
C.	07 deg. 46 min. 52 sec.	31 deg. 29 min. 23 sec.
D.	07 deg. 46 min. 55 sec.	31 deg. 29 min. 19 sec.

An area of approximately **9.448** Hectares

RENT: Shs.

Year 1 ERV No. 19764173 Amount 47,240/= Date 16.07.09
Year 2 ERV No. 21232576 Amount 47240/= Date 21.8.06
Year 3 ERV No. 36101660 Amount 47240/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 47,240/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 47,240/= Date 17.03.10

RENEWAL
The validity of this licence is renewed up to 4TH JULY 2014
ERV No: 36101661 Date: 17.03.2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

E 2009/10: ERV 36114986 Tsh. 50,000/= 19/07/2011
2010/11 ERV 36119408, Tsh. 100,000/= 21.07.11

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

MINISTRY OF ENERGY AND MINERALS

PML 0005538

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Namwale area in Sumbawanga District QDS 206/4 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 46 min. 49.6848 sec.	31 deg. 29 min. 5.1288 sec.
B.	07 deg. 46 min. 42 sec.	31 deg. 29 min. 08 sec.
C.	07 deg. 46 min. 55 sec.	31 deg. 29 min. 17 sec.
D.	07 deg. 47 min. 2.8248 sec.	31 deg. 29 min. 14.8812 sec.

An area of approximately **9.959** Hectares

RENT: Shs.

04/05 Year 1 ERV No. 19764173 Amount 49795/= Date 16.07.
05/06 Year 2 ERV No. 21232576 Amount 49795/= Date 21.8.06
06/07 Year 3 ERV No. 36101660 Amount 49795 Date 17.03.10
07/08 Year 4 ERV No. 36101660 Amount 49795 Date 17.03.10
08/09 Year 5 ERV No. 36101660 Amount 49795 Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 4TH JULY 2014
ERV No: 36101661 Date: 17.03.2010
Zonal Mines Officer (Signature) WESTERN Zone
Date 31.03.2010

2009/10: ERV 36114985 Tsh. 50,000 19/07/2010
2010/11 ERV 36119467, Tsh. 100,000 = 21.07.11

PML 0006385

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 3.32 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 3.32 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 9.93 sec.
D.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 9.93 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

06/07 Year 1 ERV No. 21232425 Amount 50000/- Date 21.11.07
07/08 Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
10/11 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

RENEWAL
The validity of this licence is renewed up to 11th DECEMBER 2016
ERV No: 36101661 Date: 17.3.2010
Zonal Mines Officer (Signature)
WESTERN Zone
Date: 31.03.2010

2011/12 ERV 36120608 Tsh. 100,000/= 13.10.11
2012/13 ERV 36119435 Tsh 100,000/= 21.07.2011

PML 0006386

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 32 min. 56.71 sec.
B.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 03.32 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 03.32 sec.
D.	07 deg. 42 min 22.40 sec.	31 deg. 32 min. 56.71 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

06/07 Year 1 ERV No. 21234425 Amount 50000/= Date 21.11.07
07/08 Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
10/11 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10
2011/12 ERV 36494936, Tsh. 100,000/= 21.07.11

RENEWAL
The validity of this licence is renewed up to 11TH DECEMBER 2016
ERV No: 36101661 Date: 17.03.2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006470

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 29.76 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 36.37sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 36.37sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 29.76 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.7.08
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

2010/12, ERV: 36121793 [illegible] 100,000/= 13.10.2011
2010/11, ERV 36119437, 100,000/= 21.07.11

PML 0006471

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 23.15 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 29.76 sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 29.76 sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 23.15 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21218413 Amount 50,000/= Date 01.07.08
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.09
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

The validity of licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
WESTERN Zone
Mines Officer
(Signature)
Date: 31.03.2010

2010/12, ERV 36121794, Tsh 100,000/= 13/10/2011
2010/11, ERV 36179438, Tsh 100,000/= 21.07.11

PML 0006472

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 16.54 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 23.15 sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 23.15 sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 16.54 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232713 Amount 50,000/= Date 01.07.07
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. ..... Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2013
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

2010/12, ERV 36121795 Tsh. 100,000/= 13.10.2011
2010/11, ERV 36119439 Tsh 100,000/= 21.07.11

PML 0006473

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 9.93 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 16.54 sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 16.54 sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 9.93 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.07
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this ERV no is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

2010/11 ERV36121796 100,000/= 13.10.2011
2010/11 ERV3611944 0, Tsh. 100,000/= 21.7.2011

PML 0006474

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 3.32 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 9.93 sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 9.93 sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 3.32 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.07 FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07

Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10

Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10

Year 5 ERV No. 36101660 Amount 50000/= Date 17,03,10

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
KIGOMA Zone
Zonal Mines Officer (Signature)
Date: 31:03:2010

2010/12 ERV: 36121797, Tsh. 100,000/= 13/10/2011
2010/11 ERV 36 119444, Tsh. 100,000/= 21/07/11

PML 0006475

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 34.43 sec.	31 deg. 32 min. 56.71 sec.
B.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 03.32 sec.
C.	07 deg. 41 min 18.44 sec.	31 deg. 33 min. 03.32 sec.
D.	07 deg. 41 min 18.44 sec.	31 deg. 32 min. 56.71 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

ZONAL MINES OFFICER P. O. Box 75 MPANDA

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.08
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/- Date 17.03.10

2010/12, ERV: 36121798 Tsh 100 000 13.10.2011
2010/11, ERV 36119442, Tsh.100,000 21.07.11

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006476

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 42.98 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 49.59 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 49.59 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 42.98 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01-07-05
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50,000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

RUK: ZONAL MINES OFFICER P. O. Box 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

2010/12 ERV 36121799 Tsh 100,000/=, 13.10.11
2010/11, ERV 36119443, Tsh 100,000/=, 21.07.11

PML 0006477

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 36.37 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 42.98 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 42.98 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 36.37 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.08
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Renewal
Zonal Mines Officer (Signature)
WESTERN Zone
Date: 31.03.2010

2010/12 ERV 36121800, Tsh. 100,000/= 13.10.11
2010/11 ERV 36119444, Tsh. 100,000/= 21.07.11

PML 0006478

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 29.76 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 36.37 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 36.37 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 29.76 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232913 Amount 50,000/= Date 04.07.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

RENEWAL
The validity of this licence is renewed up
30TH JAN 2015
36161661 Date: 17.03.2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

2010/12 ERV 36120601 Tsh. 100,000; 13.10.2011
2010/11 ERV 36119445 Tsh. 100,000; 21.07.11

PML 0006479

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 23.15 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 29.76 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 29.76 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 23.15 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.2007
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER
P. O. BOX 75
MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JANUARY 2015
ERV No: 36161661 Date: 17/03/2015
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31:03:2015

2010/12 ERV 36120602 Tsh 100,000/= 13.10.2011
2010/11, ERV 36119446 Tsh 100,000/= 21.07.2011

PML 0006480

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 16.54 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 23.15 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 23.15 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 16.54 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

05/06 Year 1 ERV No. 21232713 Amount 50,000/= Date 01.07.05
06/07 Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2010/12 ERV 36120603 Tsh. 100,000/= 13.10.2011
2010/11 ERV 36119447 Tsh. 100,000/= 21.07.11

ZONAL MINES OFFICER
P. O. Box 75
MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006481

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 9.93 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 16.54 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 16.54 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 9.93 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.07
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50,000/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17.03.2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

2011/12, ERV 36120604 Tsh. 100,000/= 13.10.11
2010/11, ERV 36119448 Tsh. 100,000/= 21.07.11

PML 0006482

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 3.32 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 9.93 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 9.93 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 3.32 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.07
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/- Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/- Date 17.03.10
2010/11 ERV 36120605 Tsh 100,000/= 13.10.11
2011/12 ERV 36119449 Tsh 100,000/= 21.07.11

RENEWAL
The validity of this licence is renewed up to 30TH JAN. 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006483

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 41 min 50.42 sec.	31 deg. 32 min. 56.71 sec.
B.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 3.32 sec.
C.	07 deg. 41 min 34.43 sec.	31 deg. 33 min. 3.32 sec.
D.	07 deg. 41 min 34.43 sec.	31 deg. 32 min. 56.71 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
Year 2 ERV No. 36101660 Amount 50000/= Date 17.3.10
Year 3 ERV No. 36101660 Amount 50000/- Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/- Date 17.03.10

2010/11 ERV 36120606 Tsh 100,000/= 13.10.11
2011/12 ERV 36119450 Tsh 100,000/= 21.07.11

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006484

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 42.98 sec.
B.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 49.59 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 49.59 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 42.98 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

ZONAL MINES OFFICER P. O. BOX 75 MBEYA

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.[illegible]
Year 2 ERV No. 21434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

Ex 2010/11, ERV 36120607, Tsh. 100,000/= 13.10.11
2011/12 ERV 36119459 Tsh. 100,000/= 21.07.11

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 12/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006485

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 36.37 sec.
B.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 42.98 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 42.98 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 36.37 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1	ERV No. 21232413	Amount 50,000/=	Date 01.07.08
Year 2	ERV No. 25438525	Amount 50000/=	Date 21.11.07
Year 3	ERV No. 36101660	Amount 50000/-	Date 17.03.10
Year 4	ERV No. 36101660	Amount 50000/=	Date 17.03.10
Year 5	ERV No. 36101660	Amount 50000/=	Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

~~2010/11 ERV 3611435 Tsh. 100000/~~ 21.7.11
2011/12 ERV. 36120668 Tsh. 100,000/= 13.10.11
2010/11 ERV 3611452 Tsh 100,000/= 21.07.11

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Kwemul WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006544

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 29.76 sec.
B.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 36.37 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 36.37 sec.
D.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 29.76 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

RENEWAL
The validity of this licence is renewed up
to 30TH JAN 2015
ERV No: 36161661 Date: 3/17/2/2010
Renewed. WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010.

2009/10 ~~2010/11~~ 36120609 13/10/2011 Renewed.
2010/11, ERV 36119453, TSh. 100,000/= Renewed.
2011/12, ERV 36120609 TSh. 100,000/= Renewed.

PML 0006545

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 23.15 sec.
B.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 29.76 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 29.76 sec.
D.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 23.15 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.07
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

2009/10 36120610 100,000/= 13/10/2010 Exempt.
2010/11 36119454 100,000/= 21.07.2010 Exempt.
2011/12 36120610, 100,000/= 13.10.2010 Exempt.

PML 0006546

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 16.54 sec.
B.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 23.15 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 23.15 sec.
D.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 16.54 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36161660 Amount 50,000 Date 17.03.10
Year 4 ERV No. 36161660 Amount 50,000 Date 17.03.10
Year 5 ERV No. 36161660 Amount 50,000 Date 17.03.10

2011/12 36120611, 100,000/= 13.10.2011
2010/11, 36119455, 100,000/= 21.07.2011

ZONAL MINES OFFICER
P. O. BOX 75
MPANDA

RENEWAL
The validity of this licence is renewed up
to 30TH JAN 2015
RV No: 36161661 Date: 17/03/2012
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006547

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 9.93 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 9.93 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 16.54 sec.
D.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 16.54 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

2011/12 2009/10, 36120612, 100,000/= 13/10/2011 Renewed.
2010/11 36119456, Tsh. 100,000/= 21/07/2011 Renewed.

RENEWAL
The validity of this licence is renewed up
30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Renewed. WESTERN
Zonal Mines Officer Zone
(Signature)
Date: 31.03.2010

PML 0006548

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 3.32 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 9.93 sec.
C.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 9.93 sec.
D.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 3.32 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

05/06 Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
06/07 Year 2 ERV No. 25434525 Amount 50000/- Date 21.11.07
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER
P. O. BOX 75
MPANDA

2010/12 2009/10, 36120613 100,000 13/10/2011 Renewal
2010/11, ERV 36119457, TSh. 100,000/= 21.07.11 Renewal

RENEWAL
The validity of this licence is renewed up
30TH JAN. 2015
ERV No: 36161661 Date: 17/03/2010
Renewal WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31-03-2010

PML 0006549

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 32 min. 56.71 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 3.32 sec.
C.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 3.32 sec.
D.	07 deg. 42 min 6.41 sec.	31 deg. 32 min. 56.71 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.07
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

2010/11 ERV: 36120614 100,000/= 13/10/2010 Received.
2010/11 ERV 36119458 Tsh. 100,000/= 21.07.11 Received
2011/12 ERV 36120614, Tsh 109,000/= 13.10.2011 Received.

RENEWAL
The validity of this licence is renewed up
30TH JAN 2015
RV No: 36161661 Date: 17/03/2010
Received WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006550

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 42.98 sec.
B.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 49.59 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 49.59 sec.
D.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 42.98 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.07

Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07

Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10

Year 4 ERV No. 36101660 Amount 50,000/= Date 17.03.10

Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31:03:2010

2009/10 ERV: 36120615, 100,000/= 13/10/2011 Renewed.
2010/11, ERV 36119459, TSh. 100,000/=, 21.07.2011 Renewed.
2011/12, ERV 36120615, TSh. 106,000/= 13.10.11 Renewed

PML 0006551

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 36.37 sec.
B.	07 deg. 42 min 38.39 sec.	31 deg. 33 min. 42.98 sec.
C.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 42.98 sec.
D.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 36.37 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1	ERV No.	212324.13	Amount	50000/=	Date 01.07.2011
Year 2	ERV No.	25434525	Amount	50000/=	Date 21.11.07
Year 3	ERV No.	36101660	Amount	50000/=	Date 17.03.10
Year 4	ERV No.	36101660	Amount	50000/=	Date 17.03.10
Year 5	ERV No.	36101660	Amount	50000/=	Date 17.03.10

ZONAL MINES OFFICER P. O. Box 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 12/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

2011/12 ERV: 36120615 100 000/= 13/10/2011
2010/11 ERV 36119460, Tsh. 100,000= 21.07.2011

PML 0006552

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 3.32 sec.
B.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 9.93 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 9.93 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 3.32 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

FOR: ZONAL MINES OFFICER P. O. Box MPANDA

Year 1	ERV No.	21210590	Amount	50,000/=	Date 04.05.05
Year 2	ERV No.	25434525	Amount	50000/=	Date 21.11.07
Year 3	ERV No.	36101660	Amount	50000/=	Date 17.03.10
Year 4	ERV No.	36101660	Amount	50000/=	Date 17.03.10
Year 5	ERV No.	36101660	Amount	50000/=	Date 17.03.10

2011/12, ERV 36120616, 100,000/= 13/10/2011
2010/11, ERV 36119461, Tsh 100,000/= 21.07.2011

RENEWAL
The validity of this licence is renewed up
to 15TH MARCH 2015
ERV No: 36161661 Date: 17/03/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006553

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 42.98 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 49.59. sec.
C.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 49.59 sec.
D.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 42.98 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

	ERV No.	Amount	Date
Year 1	21210590	50,000/=	04.05.08
Year 2	25434525	50000/=	21.11.07
Year 3	36101660	50000/=	17.03.10
Year 4	36101660	50,000/=	17.03.10
Year 5	36101660	50000/=	17.03.10

2011/12, ERV 36120618, 100,000/= , 13.10.2011 [signature]
2010/11, ERV 36119462, Tsh.100,000/= 21.07.2011 [signature]

RENEWAL
The validity of this licence is renewed up to ~~30~~ 10TH MARCH 2015
ERV No: 36161661 Date: 17/03/2010
[signature] WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

ZONAL MINES OFFICER WESTERN ZONE P.O. BOX 75 MPANDA

PML 0006554

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41 sec.	31 deg. 32 min. 56.71 sec.
B.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 3.32 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 3.32 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 32 min. 56.71 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 2121059o Amount 50,000/= Date 04.05.06
Year 2 ERV No. 25434525 Amount 50000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50,000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2011/12, ERV: 36120619: 100,000/= 13/10/2011
2011/12, ERV 36119463, Tsh: 100,000/=, 21.07.11

ZONAL MINES OFFICER P. O. Box MBEYA

RENEWAL
The validity of this licence is renewed up to 10TH MARCH 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature)
WESTERN Zone
Date: 31.03.2010

PML 0006555

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 36.37 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 42.98 sec.
C.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 42.98 sec.
D.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 36.37 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21210590 Amount 50,000/= Date 04.05.07
Year 2 ERV No. 25434525 Amount 50,000/= Date 21.11.07
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2011/12 ERV 36120620: 100,000/= 13/10/2011
2010/11 ERV 36119464, TSh: 100,000/= 21.07.2011

ZONAL MINES OFFICER P. O. Box MBEYA

RENEWAL
The validity of this licence is renewed up to 10TH JAN 2015 Renewal
RV No: 36161661 Date: 17/03/2010
Renewal WESTERN
Zonal Mines Officer Zone
(Signature)
Date: 31.03.2010

PML 0006556

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 29.76 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 36.37 sec.
C.	07 deg. 42 min 06.41 sec.	31 deg. 33 min. 36.37 sec.
D.	07 deg. 42 min 06.41 sec.	31 deg. 33 min. 29.76 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05 PUK
Year 2 ERV No. 36101660 Amount 50,000/= Date 17.03.10
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

2009/10 ERV: 36120621 200 000/= 13/10/2011
2010/11 - 11/12, ERV 36120621, TSh. 200,000/= 13.10.2011

PML 0006557

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 23.15 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 29.76 sec.
C.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 29.76 sec.
D.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 23.15 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.09
Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

ZONAL MINES OFFICE
P. O. BOX 75
MPANDA

RENEWAL
The validity of this licence is renewed up to 30TH JAN 2015
ERV No: 36161661 Date: 17/03/2010
Zonal Mines Officer (Signature)
WESTERN Zone
Date: 31.03.2010

~~2009/10~~ – 2010/11 36120622 200 000/= 13/10/2011 ~~Renewal~~
2010/11 – 2011/12 36120622, TSh 200 000 13/10/211 ~~Renewal~~

PML 0006558

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 16.54 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 23.15 sec.
C.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 23.15 sec.
D.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 16.54 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

05/06 Year 1 ERV No. 2123243 Amount 50,000/= Date 01.07.05
06/07 Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. Box 75 MPANDA

2010/11 - 2011/12 ERV 36120623, 200,000/= 13.10.2011

RENEWAL
The validity of this licence is renewed up
30TH JAN 2015
ERV No. 36161661 Date: 17/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006559

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 9.93 sec.
B.	07 deg. 42 min 22.40 sec.	31 deg. 33 min. 16.54 sec.
C.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 16.54 sec.
D.	07 deg. 42 min 6.41 sec.	31 deg. 33 min. 9.93 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

ZONAL MINES OFFICER P. O. Box 75 MPANDA

05/06 Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.2010
06/07 Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

2009/10 – 2010/11 ERV: 200000 36/20624 13.10.2011
2010/11 – 2011/12 ERV; 200,000/= 13.10.2011 Exempt

RENEWAL
The validity of this licence is renewed up
30TH JAN 2015
RV No: 36161661 Date: 17/03/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

PML 0006647

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 29.76 sec.
B.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 36.37 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 36.37 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 29.76 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

05/06 Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
06/07 Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER
P. O. BOX 75
MPANDA

2019/11 T 4/2
~~2009/10~~ ~~2010/11~~ 36120625 200,000/= 13/9/2011 Renewal

RENEWAL
The validity of this licence is renewed up to 17TH APRIL 2015
ERV No: 36161661 Date: 17/03/2010
Renewal
Zonal Mines Officer (Signature)
WESTERN Zone
Date: 31.03.2010

PML 0006648

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 23.15 sec.
B.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 29.76 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 29.76 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 23.15 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

Year 1 ERV No. 21232413 Amount 50,000/= Date 01-07-09 POK: ZONAL MINES OFFICER P. O. Box 75 MPANDA

Year 2 ERV No. 36101660 Amount 50000/- Date 17.03.10

Year 3 ERV No. 36101660 Amount 50,000/- Date 17.03.10

Year 4 ERV No. 36101660 Amount 50000/- Date 17.03.10

Year 5 ERV No. 36101660 Amount 50000/- Date 17.03.10

2010/11 2009/10 – 2011/12 ~~200,000/=~~ 200,000/= 13/10/2011

RENEWAL
The validity of this licence is renewed up to 17TH APRIL 2015
RV No: 36161661 Date: 12/3/2010
Zonal Mines Officer (Signature) WESTERN Zone
Date: 31.03.2010

PML 0006649

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 16.54 sec.
B.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 23.15 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 23.15 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 16.54 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

05/06 Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
06/07 Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50,000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 17TH APRIL 2015
ERV No: 36161661 Date: 17/3/2010
Renewed
Zonal Mines Officer (Signature)
WESTERN Zone
Date: 31.03.2010

~~2010/2011, ERV: 36120615 100,000/= 13/10/2011~~ Renewed.
~~2010/11 ERV 36119458, ERV Tsh 100 000/=~~ 21.07.2011
~~2011/12 ERV 36120615, Tsh. 100,000/=~~ 13.10.2011
2010/11, ERV 36120627, Tsh. 200,000/= 13.10.2011 Renewed.
-2011/12

PML 0006650

DESCRIPTION OF THE LICENCE AREA

Subject to Section 95 of the Mining Act, 1998 the Licence Area is at Muze area in Sumbawanga District QDS 207/1 Define the lines of latitude and longitude having the following corner coordinates:-

	Latitude (S)	Longitude (E)
A.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 09.93 sec.
B.	07 deg. 42 min 6.41sec.	31 deg. 33 min. 16.54 sec.
C.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 16.54 sec.
D.	07 deg. 41 min 50.42 sec.	31 deg. 33 min. 9.93 sec.

An area of approximately **10.00** Hectares

RENT: Shs.

05/06 Year 1 ERV No. 21232413 Amount 50,000/= Date 01.07.05
06/07 Year 2 ERV No. 36101660 Amount 50000/= Date 17.03.10
07/08 Year 3 ERV No. 36101660 Amount 50000/= Date 17.03.10
08/09 Year 4 ERV No. 36101660 Amount 50000/= Date 17.03.10
09/10 Year 5 ERV No. 36101660 Amount 50000/= Date 17.03.10

FOR: ZONAL MINES OFFICER P. O. BOX 75 MPANDA

RENEWAL
The validity of this licence is renewed up to 17TH APRIL 2015
ERV No: 36161661 Date: 17/3/2010
WESTERN
Zonal Mines Officer (Signature) Zone
Date: 31.03.2010

~~2010/11 ERV 3611959, Tsh 100,000/= 21.07.11~~