

•

Cell: +27 82 970 1513 Fax: 086 695 5990

Email: moses@archeanresources.com;

28 OCTOBER 2021

NOTICE OF THE PROPOSED PROSPECTING ACTIVITY IS HEREBY GIVEN IN TERMS OF THE (MPRDA) MINERALS AND PETROLEUM RESOURCES DEVELOPMENT ACT (ACT NO.28 OF 2002) AND (NEMA) NATIONAL ENVIRONMENTAL MANAGEMENT ACT (ACT NO 107 OF 1998): ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS 2021 (AS AMENDED):

DMR Reference: DMR Reference: GP30/5/1/1/2/10728PR

<u>Attention:</u> Landowners, interested and affected parties

Applicant: Isowel Tech Solutions (Pty) Ltd

Contact Person: Yvonne Gutoona/Mphephu Moses

<u>Location:</u> The farms are located approximately 4 km North of Bronkhorstspruit town, City of Tshwane Metropolitan Municipality, Gauteng Province.

1 BACKGROUND

Notice is hereby given in terms of the (MPRDA) Minerals And Petroleum Resources Development Act (Act No.28 Of 2002) hereafter as Amended Section by 12(D) of the MPRDA, 2008 (Act 49 Of 2008) together with Regulation 3 (6) of the National Environmental Management Act (Act No 107 Of 1998): Environmental Impact Assessment Regulations 2021 (As Amended) that Isowel Tech Solutions (Pty) Ltd has applied for a prospecting right and associated environmental authorisation to prospect for the following mineral: **Coal** with the DMRE on 163.848757 hectares of portion 9, 10, 11, 14, 23, 24, 210 and 211 of the farm Roodepoort 504 JR, situated 4 km North of Bronkhorstspruit town, City of Tshwane Metropolitan Municipality, Gauteng Province

You have been identified as an interested and affected party (I&AP) in the project and the purpose of this letter is therefore to:

- Inform you of the development.
- Give you an opportunity to raise any concern you might have in respect of the prospecting activities, as under item 2 below.
- ❖ Incorporate your concerns in the impact assessment study, which is being done as part of the Basic Assessment /Environmental Management Plan (EMP). The BAR/EMP is a legal requirement for all prospecting activities and has to be approved by the Department of Mineral Resources (DMRE).

•

Cell: +27 82 970 1513 Fax: 086 695 5990

Email: moses@archeanresources.com;

2 PROJECT DESCRIPTION

2.1 Application Area

The application comprising of approximately 163.848757 hectares, farm are 4 km North of Bronkhorstspruit town, City of Tshwane Metropolitan Municipality, Gauteng Province.

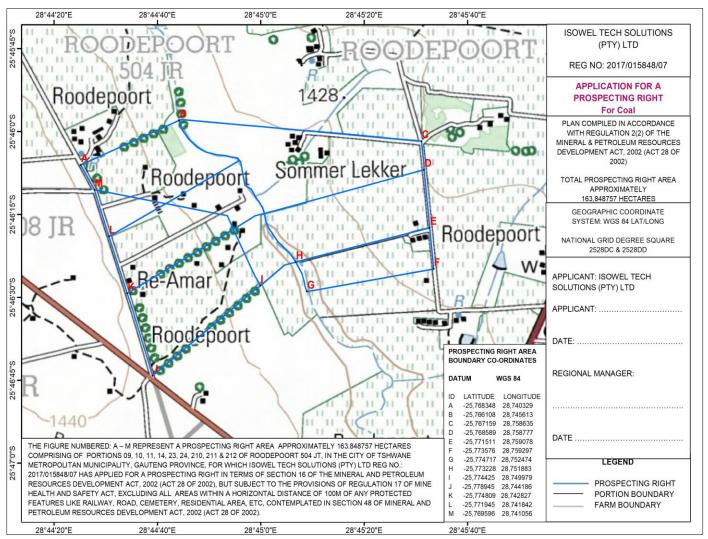


Figure 1: Regulation Map

A DESCRIPTION OF THE PROSPECTING METHOD OR METHODS TO BE IMPLEMENTED

I. DESCRIPTION OF PLANNED NON-INVASIVE ACTIVITIES:

Non – invasive activities which relate to the various prospecting methods can be briefly described as follows:

Consultation with landowners:

•

Cell: +27 82 970 1513 Fax: 086 695 5990

Email: moses@archeanresources.com;

Land Tenure Specialist will visit the respective land owners prior to the proposed prospecting and arrange all issues relating to the envisaged prospecting programme such as dates, access routes, availability of water, and rehabilitation of the drill sites and any other items of mutual concern. Official permission together with all agreed requirements will be in writing.

Data processing and validation:

Data obtained during the drilling process needs to be process and validated versus stratigraphic, structural and analytical data received and correlated with surrounding boreholes in the reserve area.

- Electronic procession of borehole data
- Validation of lithological data versus analytical data.
- Stratigraphic correlation of coal and dolerite horizons.
- Editing and correction of data on database.

Lithofacies and coal quality modelling:

Variations in a stratigraphic unit across the reserve area are generated and illustrated by contoured maps showing lateral trends of most significant properties. This is done by the utilization of computerized geological software. Detailed in situ reserve and quality determinations will then be possible through computer based modelling, and qualitative and quantitative calculations.

Compilation of geology report:

Information obtained during the exploration phase together with computer-generated information is compiled into a geological report.

Inspection/Consultation with landowner:

Land Tenure Specialist will visit the boreholes during and after prospecting has been completed. Once confirmation has been obtained that the area had been properly rehabilitated, sign off will be obtained from the landowners and compensation paid for any damages caused as a result of the prospecting.

(ii) DESCRIPTION OF PLANNED INVASIVE ACTIVITIES:

- Diamond drilling:

The drill rigs are truck-mounted and equipped with diesel driven engines to provide power to the drill. A truck fitted with a water tank is used to provide the water supply for the drilling process. The drill site is not larger than 30m x 30m (900m²) and consists of a drill rig, water pump, caravan and portable chemical toilets

Cell: +27 82 970 1513 Fax: 086 695 5990

Email: moses@archeanresources.com;



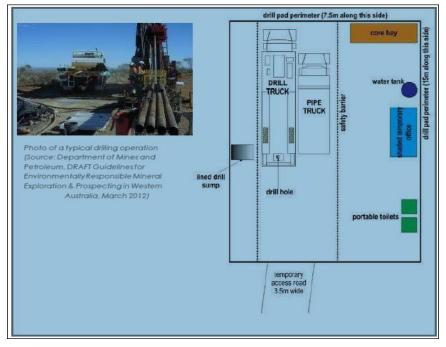


Figure 2: Typical drill site layout (Not to Scale)



Figure 3: Example of the drilling machine

The only rehabilitation that will specifically be required is borehole capping and revegetation:

Drill holes must be permanently capped as soon as is practicable. Figure 3 below provides the prepared procedure for the secure plugging of exploration drill holes.

Percussion drilling:

Cell: +27 82 970 1513

Fax: 086 695 5990

Email: moses@archeanresources.com;

The drill site is not larger than 30m x 30m (900m²) and consists of a diesel powered truck mounted drill rig, a truck transporting drill rods and other equipment, a compressor and Portable chemical toilets.

Percussion holes will either be cemented if not further utilized, or will be fitted with a cap and be used for water levels and water quality monitoring. Rock fragments are blown out the top of the hole and are collected at 1m depth intervals and arranged on the ground to enable continuous detailed lithological descriptions of the stratigraphic horizons to be made.

Directional drilling:

The drill site is not larger than 120m x 120m (14400m²) and consists of a sump, a diesel powered drill rig, a truck transporting drill rods and other equipment, a compressor, portable offices and chemical toilet.

Rock fragments are blown out the top of the hole and are sampled at 10m depth intervals and collected on small bottles and sent to the laboratory for coal analysis. All percussion holes are sealed with cement up to the depth of start of coal.

Geophysical down-hole surveys

The down-hole geophysical survey is done at the borehole site after the hole has been completed. A range of specialized geophysical tools are lowered into the open borehole and a range of physical lithological characteristics of the rock mass or coal are gathered and sent digitally along the cable to a computer on surface. This data is used to produce a number of profiles reflecting rock strength coal qualities and structural features for the total length of the borehole. A single truck is used which contains all equipment including a mobile generator.

Geophysics is a subject of natural science concerned with the physical processes and physical properties of the Earth and its surrounding space environment, and the use of quantitative methods for their analysis. The term geophysics sometimes refers only to the geological applications

Geohydrological survey

Percussion (open-hole) boreholes may be drilled to gather geohydrological information with specific reference to aquifer yield testing and gathering of water samples for analytical purposes.

Baseline preliminary conceptual groundwater flow model to estimate inflow rates into a probable underground mining operation using hydraulic aquifer parameters obtained during aquifer yield-testing. A single truck is used which contains all equipment including a mobile generator.

(iii) DESCRIPTION OF PRE-/FEASIBILITY STUDIES

The coal seam thickness distribution, lateral extent and quality will be determined through detailed borehole measurement and laboratory core analysis. Detailed in situ reserve and quality determinations will then be possible through computer based modelling, and qualitative and quantitative calculations.

Cell: +27 82 970 1513 Fax: 086 695 5990

Email: moses@archeanresources.com;

A geological report (or Competent Person Report) will be compiled which entails all results obtained during the exploration phase. This will be done by Exploration Geologist, see attached CV for the company that will be

responsible for exploration activities.

ACTIVITIES TO BE AUTHORISED

Listing 1 & 3- GNR 983 & 985 requiring a Basic Assessment

YOUR INVOLVEMENT

A Basic Assessment Report/ Environmental Management Plan will be available for review for at least 30 days 30

days from the 29th of October to the 29th of November 2021 and will be made available to registered I&AP's; reports

will be emailed upon request and made available at Bronkhorspruit Community Library, Zithobeni Library and

Kungwini Local Municipality.

Public Meeting: Public meeting will be held on the 23rd of November 2021 at Bronkhorstspruit Hall, C/o Market

and Louis Botha Ave Bronkhorstspruit 1020. 10h00am

You are requested to submit your concerns (if any) and register as an I&AP in this project by way of the

accompanying comments form. This consultation process is important as it raises your awareness about the nature

of the operation and allows you to raise any positive and/or negative concerns you might have regarding the

proposed project. Your concerns will then be investigated further as part of the environmental impact study to

determine their impacts; management measures will then be developed to address these impacts.

WAY FORWARD

The results of this consultation process will be included in the final Basic Assessment and EMPr document, which

will be submitted to DMRE as part of application for approval. You will be notified of the record of decision by DMRE

once it is issued.

Isowel Tech Solution (Pty) Ltd is committed in complying with the conditions, which DMRE will stipulate concerning

the management of the environmental impacts on the site during the prospecting period.

In order to participate in the process and/or provide comments and or to register as an Interested and Affected

Party (I & AP) pertaining to the above-proposed activity, you are invited to contact us as above within 30 days of

this notice ending on the 29rd of November 2021 via the following methods: roman @archeanresources.com/

moses@archeanresources.com/yvonne@archeanresources.com or alternatively on Tel: (+27) 67 103 2562/

(+27) 82 9701513 and Fax: (+27) 86 695 5990



Cell: +27 82 970 1513 Fax: 086 695 5990

Email: moses@archeanresources.com;

COMMENTS FORM

Applicant: Isowel Tech Solution (Pty) Ltd DMR Reference: GP30/5/1/1/2/10728PR

DMR Reference: GP30/5/1/1/2/10/28PR			
Title:		Surname:	
Name:		Organisation: Portion:	