



mineral resources

Department:
Mineral Resources
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORIZATIONS IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 AND THE NATIONAL ENVIRONMENTAL MANAGEMENT WASTE ACT, 2008 IN RESPECT OF LISTED ACTIVITIES THAT HAVE BEEN TRIGGERED BY APPLICATIONS IN TERMS OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (MPRDA) (AS AMENDED).

IMPORTANT NOTICE

Kindly note that:

1. As from 8 December 2014, this document serves as the application form, and incorporates the requisite documents that are to be submitted together with the application for the necessary environmental authorizations in terms of the said Acts.
2. This application form is applicable while the Mineral and Petroleum Resources Development Amendment Act of 2008 is in effect, as the form may require amendment should the Act be further amended.
3. Applicants are required to apply for the necessary water use license and any other authorizations nor licenses to the relevant competent authorities as required by the relevant legislation. Upon acceptance of an application for a right or permit in terms of the MPRDA, applicants will be required to provide evidence to the Regional Manager that a water use license has been applied for.
4. The Regional Manager will respond to the application and provide the reference and correspondence details of the Competent Authority, and in the event that the application for a right or permit is accepted, together with the date by which the relevant environmental reports must be submitted. Notwithstanding anything that may appear to be stated to the contrary in the acceptance letter, the timeframes are in fact aligned and the prescribed timeframes for the submission of documents as regulated by the NEMA regulations must be strictly adhered to.
5. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
6. The failure to submit complete information as required in this application form may result in the refusal of the application for an environmental authorization and consequently of the right or permit applied for.
7. This application must be submitted through the SAMRAD online application system of the Department of Mineral Resources under "Other documents to upload".
8. Unless protected by law, all information filled in on this application form will become public information on receipt by the competent authority. Any interested and affected party should and shall be provided with the information contained in this application on request, during any stage of the application process.
9. Please note that an application fee is payable in terms of the National Environmental Management Act and the National Waste Management Act, which fees must be paid upon lodgement of the application. Should the said application fees not be paid as prescribed the application for a right or permit in terms of the Mineral and Petroleum Resources Development Act cannot be considered to have been made in the prescribed manner and the said application for a right or permit will have to be rejected. In this regard the type of applications must be identified in the table below.

PLEASE STATE TYPE OF AUTHORIZATIONS BEING APPLIED FOR

APPLICATION TYPE	APPLICATION FEE	MARK WITH AN X WHERE APPLICABLE
NEMA S&EIR application on its own	R 10 000.00	
NEMA BAR application on its own	R 2 000.00	X
NEMWA S&EIR application on its own	R 10 000.00	
NEMWA BAR application on its own	R 2 000.00	
NEMA S&EIR application combined with NEMWA S&EIR application	R 15 000.00	
NEMA BAR application combined with NEMWA BAR application	R 3 000.00	
NEMA S&EIR application combined with NEMWA BAR application	R 11 000.00	

1. CONSULTATION BASIC ASSESSMENT AND/ OR SCOPING REPORT

2. DETAILS OF THE APPLICANT

Project applicant:	Mineral Sands Resources (Pty) Ltd		
Registration no (if any):	2001/016755/07		
Trading name (if any):	MSR		
Responsible Person (e.g. Director, CEO, etc.):	General Manager - Tormin Mine		
Contact Person:	Sibonelo Mkhize		
Physical address:	Tormin Mine, Schaapvlei Road Lutzville		
Postal address:	P.O. Box 139, Lutzville		
Postal code:	8165	Cell:	0632988813
Telephone:	087 150 4032	Fax:	
E-mail:	sibonelo@mineralcommodities.com		

3. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP:	Mrs. S. Smit		
Professional affiliation/registration:	N/A		
Contact Person (if different from EAP):	Mrs. S. Smit		
Company:	Greenmined Environmental		
Physical address:	Unit MO1, No 37 AECI Site, Baker Square, Paardevlei, De Beers Avenue, Somerset West		
Postal address:	Suite 62, Private Bag X15, Somerset West		
Postal code:	7129	Cell:	084 585 5706
Telephone:	021 8512673	Fax:	086 546 0579
E-mail:	sonette.s@greenmined.co.za		

If an EAP has not been appointed please ensure that an independent EAP is appointed as stipulated by the NEMA Regulations, prior to the commencement of the process.

The declaration of independence and the Curriculum Vitae (indicating the experience with environmental impact assessment and relevant application processes) of the EAP must also be attached as **Appendix 1**.

4. PROJECT DESCRIPTION

Farm Name:	Portion 1,2, 3 and the Remainder of the farm Klipvley Karoo Kop 153, West Coast District Municipality, Western Cape Province.
Application area (Ha)	3635 ha
Magisterial district:	Vredendal
Distance and direction from nearest town	The farms are located 40km Northwest of Lutzville, Western Cape Province.
21 digit Surveyor General Code for each farm portion	C07800000000015300000 C07800000000015300001 C07800000000015300002 C07800000000015300003
Locality map	Attach a locality map at a scale not smaller than 1:250000 and attach as Appendix 2
<p>Description of the overall activity. Indicate Mining Right, Mining Permit, Prospecting right, Bulk Sampling, Production Right, Exploration Right, Reconnaissance permit, Technical co-operation permit, Additional listed activity)</p>	<p>Mineral Sand Resources (Pty) Ltd (hereafter referred to as the applicant) applied for a prospecting for Garnet (Abrasive), Heavy Minerals (General) Leucoxene, (Heavy Mineral) Monazite (Heavy Mineral), Rare Eaths, Rutile (Heavy Mineral), Zircon (Heavy Minerals), Ilmenite over Portion 1,2, 3 and the Remainder of the farm Klipvley Karoo Kop 153, West Coast District Municipality, Western Cape Province.</p> <p>The proposed prospecting footprint applied for was approximately 3635 ha over Portion 1,2, 3 and the Remainder of the farm Klipvley Karoo Kop 153, West Coast District Municipality, Western Cape Province. All the proposed methods will be discussed with the landowner for approval prior to the commencement of the prospecting activities.</p> <ul style="list-style-type: none"> ■ Airborne geophysical survey to identify drill targets. <p>A horizontal gradient fixed-wing magnetic and radiometric (“AMR”) survey will be conducted by the Consultant Geophysicist under the direction of the project geologist to obtain maps and a report confirming drill targets. Geophysical surveys are designed to detect magnetism from target minerals such as magnetite and ilmenite and radiometric signatures of minerals such as ilmenite and zircon which are depicted as mineralization trends on geophysical survey maps. It is these trends that are targeted for drilling.</p> <ul style="list-style-type: none"> ■ Surface Sampling <p>Where heavy mineral concentrations are noted on surface 25-liter surface samples will be collected manually with a shovel and plastic sampling bag for concentration and laboratory analysis to determine the type of minerals present and the tenor of mineralization. Each pit will be ~ 50cm x 50cm in</p>

	<p>size and dug to a maximum depth of 1m. Each sample locality will be backfilled and fully rehabilitated concurrently with sampling.</p> <ul style="list-style-type: none"> ■ Auger Drilling. <p>Handheld engine operated auger drill. The auger is portable and will be walked to site from the closest track. Approximately 100 auger drill holes are anticipated to be drilled. The auger is in essence a corkscrew-type drill where the helical ridge raises the drilled material to the surface for sampling purposes. A total of 100 drill holes are planned for initially to be collected over an estimated 18-month period.</p> <ul style="list-style-type: none"> ■ Evaluation Air core Drilling <p>Air-core drilling uses steel or tungsten blades to bore a hole into unconsolidated ground. The drill cuttings are removed by the injection of compressed air into the hole. This method of drilling is used to drill unconsolidated sands and soft sediments. Where possible, air-core drilling is preferred over RAB drilling as it provides a more representative sample. Air-core drilling is relatively inexpensive and is often used in first pass exploration drill programs. Air-core drilling is limited to depths of 50-60m.</p>
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5. ACTIVITIES TO BE AUTHORIZED

(Please provide copies of Environmental Authorizations obtained for the same property as **Appendix 3**).

(For an application for authorization indicated. Please list that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be index note that any authorization that may result from this application will only cover activities specifically applied for).(Attach a proposed site plan, drawn to a scale acceptable to the competent Authority, showing the location of all the activities to be applied for, as **Appendix 4**)

NAME OF ACTIVITY <small>(E.g. For prospecting - drill site, site camp, ablation facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablation, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)</small>	Aerial extent of the Activity. Ha or m ²	LISTED ACTIVITY <small>(Mark with an X where applicable or affected).</small>	APPLICABLE LISTING NOTICE <small>(GNR 544, GNR 545 or GNR 546)</small>	WASTE MANAGEMENT AUTHORIZATION <small>(Indicate whether an authorization is required in terms of the Waste Management Act). (Mark with an X)</small>
Demarcation of site with visible beacons.	3635 ha	N/A	Not listed	N/A
Prospecting.	3635 ha	X	GNR 327 Environmental Impact Assessment Regulations Listing Notice 1 of 2017 Activity 20	N/A

6. PUBLIC PARTICIPATION

(Provide details of the public participation process proposed for the application as required by Regulation.

Details of the Public Participation process to be followed.

6.1.1. IDENTIFICATION OF INTERESTED AND AFFECTED PARTIES TO BE CONSULTED

IDENTIFICATION CRITERIA	Mark with an X where applicable	
	YES	NO
Will the landowner be specifically consulted?	X	-

Will the lawful occupier on the property other than the Landowner be consulted?	X	-
Will a tribal authority or host community that may be affected be consulted?	X	-
Will recipients of land claims in respect of the area be consulted?	X (If applicable)	-
Will the landowners or lawful occupiers of neighboring properties been identified?	X	-
Will the local municipality be consulted?	X	-
Will the Authority responsible for power lines within 100 meters of the area be consulted?	X	-
Will Authorities responsible for public roads or railway lines within 100 meters of the area applied for be consulted?	N/A	X
Will authorities responsible for any other infrastructure within 100 meters of the area applied for be consulted? (Specify)	X	-
Will the Provincial Department responsible for the environment be consulted?	X	-
Will all of the parties identified above be provided with a description of the proposed mining /prospecting operation as referred above?	X	-
Will all the parties identified above be requested in writing to provide information as to how their interests (whether it be socio-economic, cultural, heritage or environmental) will be affected by the proposed mining project?	X	
Other, Specify		

6.1.2. DETAILS OF THE ENGAGEMENT PROCESS TO BE FOLLOWED

<p>Steps to be taken to notify interested and affected parties (Describe the process to be undertaken to consult interested and affected parties including public meetings and one on one consultations. NB the affected parties must be specifically consulted regardless of whether or not they attended public meetings. Photographs of notice boards, and copies of advertisements and notices notifying potentially interested and affected parties of the proposed application must be attached as Appendix)</p>	<p>PROVIDE DESCRIPTION HERE</p> <p>During the initial public participation process the stakeholders and I&AP's will be informed of the project by means of I&AP comment/notification letters that will either be delivered by hand or sent directly to the contact persons. A 30-day commenting period will be provided. An advertisement will be placed in a local newspaper and on-site notices will be placed at visible places (such as the site entrance, municipal offices, nearest shopping centres and community facilities).</p> <p>The draft Basic Assessment Report (DBAR) will be distributed to the registered I&AP's and stakeholders for their perusal and a 30-day commenting period will be provided. The comments received on the DBAR will be incorporated into the final Basic Assessment Report (FBAR) to be submitted for decision making to DMRE.</p>
<p>Information to be provided to Interested and Affected Parties</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • The site plan. • List of activities to be authorized • Scale and extent of activities to be authorized • Typical impacts of activities to be authorized (e.g. surface disturbance, dust, noise, drainage, fly rock etc.) • The duration of the activity. • Sufficient detail of the intended operation to enable them to assess what impact the activities will have on them or on the use of their land) <p>Other, specify:</p>
<p>Information to be required from Interested and Affected Parties.</p>	<p>Compulsory</p> <ul style="list-style-type: none"> • To provide information on how they consider that the proposed activities will impact on them or their socio-economic conditions • To provide written responses stating their suggestions to mitigate the anticipated impacts of each activity • To provide information on current land uses and their location within the area under consideration

	<ul style="list-style-type: none"> To provide information on the location of environmental features on site to make proposals as to how and to what standard the impacts on site can be remedied. requested to make written proposals To mitigate the potential impacts on their socio economic conditions to make proposals as to how the potential impacts on their infrastructure can be managed, avoided or remedied).
	Other, Specify: Questionnaire on potential/perceived environmental, cultural and socio-economic impacts

7. DESCRIPTION OF THE ASSESSMENT PROCESS TO BE UNDERTAKEN

ITEM	DESCRIPTION
Environmental attributes. Describe how the Environmental attributes associated with the development footprint will be determined.	A detailed site- and sensitivity analysis of the environmental attributes of the proposed footprint will be performed through investigation of the actual prospecting area, desktop, specialist studies and information obtained from bioregional plans and maps. Information gathered during the public participation process will also be used to highlight environmental aspects associated with the proposed project.
Identification of impacts and risks. (Describe the process that will be used to identify impacts and risks.	The impacts and risks associated with the proposed project will be identified through investigation of the specific site aspects, consultation with the I&AP's and stakeholders as well as desktop and background studies done on the study and surrounding areas of associated projects.
Consideration of alternatives. Describe how alternatives, and in particular the alternatives to the proposed site layout and possible alternative methods or technology to be applied will be determined.	As the mineral resource area is confined to certain position on-site assessment of viable site alternatives will mainly comprise of various footprint sizes. Different activity alternatives will be assessed in order to identify the alternative that has the least impact on the environment and future agricultural activities on the property.
Process to assess and rank impacts. Describe the process to be undertaken to identify, assess and rank the impacts and risks each individual activity.	The environmental significance assessment methodology that will be used to assess and rank the impacts will be based on the following determination: $\text{Environmental Significance} = \text{Overall Consequence} \times \text{Overall Likelihood.}$ This method will assist in ranking the identified impacts according to low, medium and high significance. A full explanation of the methodology to be used in the above matter will be discussed in the environmental documentation to be submitted for approval.
Contribution of specialist reports Describe how specialist reports, if required, will be taken into consideration and inform the impact identification, assessment and remediation process.	Prospecting will mainly involve non-invasive surface exploration to limit the environmental footprint experienced within the prospecting area and generally leaves little to no evidence of exploration activity. In light of the above mentioned, we propose that the no specialist further studies are currently deemed applicable to the proposed prospecting operation.
Determination of impact management objectives and outcomes. Describe how impact management objectives will be determined for each activity to address the potential impact at source, and how the impact management outcomes will be aligned with standards.	The impacts will be ranked as stated above. This will allow the identification of impacts deemed to have a Medium to High significance, requiring mitigation and management objectives. These objectives will be aligned with guidelines and specific requirements of the relevant managing authorities and will be listed in the EMPr to be submitted with the Basic Assessment Report.

8. OTHER AUTHORIZATIONS REQUIRED

LEGISLATION	Mark with an X where applicable			
	AUTHORIZATION REQUIRED		APPLICATION SUBMITTED	
	YES	NO	YES	NO
SEMA's				
National Environmental Management: Air Quality Act	N/A	X	N/A	N/A
National Environmental Management: Biodiversity Act	N/A	X	N/A	N/A
National Environmental Management: Integrated Coastal Management Act	N/A	X	N/A	N/A
National Environmental Management: Protected Areas Act	N/A	X	N/A	N/A
National Environmental Management: Waste Act	N/A	X	N/A	N/A
National legislation				
Mineral Petroleum Development Resources Act	X	N/A	X	N/A
National Water Act	N/A	N/A	N/A	N/A
National Heritage Resources Act	N/A	N/A	N/A	N/A
Others: Please specify	N/A	N/A	N/A	N/A

Please provide proof of submission of applications in **Appendix 5**.

In the event that an authorization in terms of the National Environmental Waste Management Act is required for, any of the activities applied for please state so clearly in order for such an authorization to be considered as part of this application.

9. DRAFT EMPr

For consultation purposes, provide a high level approach to the management of the potential environmental impacts of each of the activities applied for.

ACTIVITIES (E.g. For prospecting - drill site, site camp, ablution facility, accommodation, equipment storage, sample storage, site office, access route etc...etc...etc E.g. for mining,- excavations, blasting, stockpiles, discard dumps or dams, Loading, hauling and transport, Water supply dams and boreholes, accommodation, offices, ablution, stores, workshops, processing plant, storm water control, berms, roads, pipelines, power lines, conveyors, etc...etc...etc.)	PHASE (of operation in which activity will take place). State; Planning and design, Pre-Construction' Construction, Operational, Rehabilitation, Closure, Post closure.	SIZE AND SCALE (of Disturbance) (volumes, tonnages and hectares or m ²)	TYPICAL MITIGATION MEASURES (Eg, storm water control, dust control, noise control, access control, rehabilitation etc....., etc.....)	COMPLIANCE WITH STANDARDS (A description of how each of the recommendations herein will comply with any prescribed environmental management standards or practices that have been identified by Competent Authorities)
Demarcation of site with visible beacons.	Construction / Site Establishment Phase	3635 ha	Adhere to prospecting right boundary and no-go areas.	<ul style="list-style-type: none"> Approved Regulation 2.2 Mine Plan; Approved EMP.
Geological/Geotechnical Mapping & Verification (Non-invasive).	Operational Phase	3635 ha	<ul style="list-style-type: none"> Waste management; Safety Management. 	<ul style="list-style-type: none"> Dust & Noise: NEM:AQA, 2004; Waste: NEM:WA, 2008;
Rehabilitation upon closure of the prospecting area	Decommissioning / Closure Phase	3635 ha	<ul style="list-style-type: none"> Waste management; Safety management. 	<ul style="list-style-type: none"> Waste: NEM:WA, 2008 Safety: MHSA, 1996 Rehabilitation: MPRDA, 2002

10. CLOSURE PLAN

<p>In the space provided under each heading below, please provide a high level description of the plan for closure and the information that will be provided in the draft EMPr accompanying draft basic assessment report or environmental impact reports going forward.</p>	
<p>Baseline environment Describe how the baseline environment will be determined with the input of interested and affected parties and due cognizance of the current land uses and or existing biophysical environment</p>	<p>A detailed site selection and sensitivity analysis will be conducted for the proposed prospecting project in order to determine the baseline environment, and whether the proposed site is in a preferred and acceptable development area.</p> <p>The assumptions to be made in the EIA documents relating to the assessment and mitigation measures proposed, will stem from site specific information gathered from the property owner, stakeholders, interested and affected parties, as well as site inspections, and background information gathered through the assessment process.</p> <p>A comprehensive Environmental Management Programme (EMPr) will be developed that will have to be implemented to mitigate and minimize the impacts during the site establishment/construction and operational phases.</p>
<p>Closure objectives Describe the closure objectives and the extent to which they will be aligned to the baseline environment</p>	<p>Upon closure of the prospecting operation, the entire footprint area will be rehabilitated so as to allow the affected area to return to agricultural use. At this stage the following baseline closure objectives are proposed from which a detailed closure plan will be developed:</p> <ul style="list-style-type: none"> ➤ Any infrastructures, equipment, and other items used during the prospecting period will be removed from the site in accordance with section 44 of the MPRDA, 2002. ➤ Final rehabilitation shall be completed within a period specified by the Regional Manager. <p>A site-specific rehabilitation plan drawn to a suitable scale will be provided in the EMPr to be submitted together with the BAR.</p>
<p>Rehabilitation Plan Describe the scale and aerial extent of the prospecting or mining listed activities to be authorized, including the anticipated prospecting or mining area at the time of closure, and confirm that a site rehabilitation plan drawn to a suitable scale will be provided in the draft EMPr to be submitted together with the draft EIR or Basic Assessment Report as the case may be.</p>	
<p>Rehabilitation Cost Describe how the rehabilitation cost will be determined and provide a preliminary estimate thereof</p>	<p>The rehabilitation cost will be determined in accordance with the guideline document for the evaluation of the quantum of closure-related financial provision by a mine and as prescribed in terms of Regulation 54 (1) of the MPRDA.</p>
<p>Decommissioning Considering that rehabilitation must take place upon cessation of an activity, describe when each of activities applied for will be rehabilitated in terms of either the cessation of the individual activity or the cessation of the overall prospecting or mining activity.</p>	<p>Rehabilitation of 1.25ha dill site- upon completion of the entire invasive prospecting phase Rehabilitation of Boreholes and sumps - immediately after completion of drilling and logging Rehabilitation of Access Roads - Once the use of specific roads cease and upon completion of the prospecting work on site General surface rehabilitation - concurrent with prospecting activities</p>



Signature of the applicant / Signature on behalf of the applicant:

Mineral Sands Resources (Pty) Ltd

Name of company (if applicable):

02 November 2023

Date:

**APPENDIX 4
DECLARATION OF THE EAP**

I, **Sonette Smit**, declare that –

General declaration:

- I act as the independent environmental practitioner in this application
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favorable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process; and
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favorable to the applicant or not
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realize that a false declaration is an offence in terms of regulation 71 of the Regulations and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being:~~



Signature of the environmental assessment practitioner:

Greenmined Environmental

Name of company:

02 November 2023

Date: