

BACKGROUND INFORMATION DOCUMENT

for the proposed prospecting right in terms of section 16 of the mineral resources and petroleum development act,2002 (act 28 of 2002) as amended by section 12 of act of 49 of 2008:for Manganese Ore and Iron Ore:Ilkley 292 and Burford 291 within the administrative district of Kuruman,Northern Cape Province).

Compiled by:



NAME OF APPLICANT :	NDZHAKA MINING PROJECTS (PTY)LTD
POSTAL ADRESS :	PO BOX 983 GIYANI 0826
EMAIL :	nwamangume@icloud.com
TEL :	072 082 0829

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LIST OF ACRONYMS:

ACRONYM:	DESCRIPTION:
AEL	Air Emissions License in terms of NEM: AQA
A&IPs	Affected and Interested Parties
BA	Basic Assessment (process or report)
BID	Background Information Documents
CARA	Conservation of Agricultural Resources Act (Act 43 of 1983) as amended
COP	Codes of Practice
DWS	Department of Water Affairs and Sanitation
EA	Environmental Authorisation in terms of NEMA
EAP	Environmental Assessment Practitioner
ECA	Environmental Conservation Act (Act 73 of 1989) as amended
EIA	Environmental Impact Assessment (process or report)
EIA Regs.	Environmental Impact Assessment Regulation published under NEMA
EIS	Ecological Importance and Sensitivity
EMF	Environmental Management Framework
GDP	Gross Domestic Product
GIS	Geographical Information Systems
GN	General Notice (issued under an Act, providing notice or information)
GNR	General Notice Regulation (issued under an Act, providing instruction)
HA	Hectors
IAIA SA	International Association of Impact Assessment South Africa
IDP	Integrated Development Plan
IWUL	Integrated Water Use Licence
IWULA	Integrated Water Use Licence Application
IWWMP	Integrated Water and Waste Management Plan
LED	Local Economic Development
NAEIS	National Atmospheric Emissions Inventory System
NEA	National Energy Act, Act 34 of 2008
NEM: AQA	National Environmental Management: Air Quality Act (act 59 of 2008) as amended
NEM:BA	National Environmental Management: Biodiversity Act (Act 10 of 2004) as amended

NEM: PAA amended	National Environmental Management: Protected Areas Act (Act 57 of 2003) as amended
NEM: PAA	National Environmental Management: Protected Areas Act (Act 57 of 2003) as amended
NEM: WA	National Environmental Management: Waste Act (Act 39 of 2004) as amended
NEMA	National Environmental Management Act (Act 107 of 1998) as amended
NHRA	National Heritage Resources Act (Act No. 25 of 1999) as amended
NPAES	National Protected Area Expansion Strategy
NWA	National Water Act (Act 35 of 1998) as amended
PES	Present Ecological State (usually followed by category A-F)
PPP	Public Participation Process
PSDF	Provincial Spatial Development Framework
Rod	Record of Decision (for specific application)
RWQO	Resource Water Quality Objectives
SACNASP	South African Council for Natural Scientific Professions
SAHRA	South African Heritage Resource Agency
SAMRAD	South African Mineral Resources Administration System
SANBI	South African National Biodiversity Institute
SANS	South African National Standard (followed by standard number)
SAWIS	South African Waste Information System
SDP	Spatial Development Plan
SEMA	Specific Environmental Management Acts
SOP	Standard Operating Procedure
SPLUMA	Spatial Planning and Land Use Management Act (Act No.16 of 2013)
StatsSA	Statistics South Africa
WMA	Water Management Area
WML	Waste Management Licence in terms of NEM: WA
WUL	Water Use Licence

1. WHAT DOES THIS DOCUMENT TELL YOU?

The document aims to provide you, as an Interested and/or Affected Party(I&AP), Stakeholder, Organs of State, Non-Governmental Organisations and Traditional Authority with information regarding the Environmental Authorisation process being undertaken for the proposed prospecting right application by Ndzhaka Mining Projects (Pty)Ltd. Any person, company, authority or other entity that might be directly or indirectly affected by the proposed activity is invited to register as an Interested or Affected Party(I&AP). This includes, but is not limited to landowners, tenants, municipality and provincial authority, traditional authority, interest groups, Non-Government Organisations, conservation groups or any members of the society who may have interest or be affected by the proposed prospecting mining activity.

This document details how you can become involved in the project, receive information, and raise any issues of concern or interest regarding the proposed development. The sharing of information forms the basis of the Public Participation Process (PPP) and offers you an opportunity to become actively involved in the project from inception. Input from I&AP will ensure that all potential environmental issues are considered within the context of the proposed prospecting development.

2. BACKGROUND AND INTRODUCTION

Ndzhaka Mining Projects (Pty)Ltd has applied for Manganese Ore and Iron Ore Prospecting Right, in terms of Sec (16) of the Mineral Petroleum Resource Development Act, Act 28 of 2002 as amended by section 12 of Act 49 of 2008. The application was lodged over the following farms: Ilkley 292 and Burford 291, situated within the Magisterial District of Kuruman, Northern Cape Province. The area extent applied for is 13 920,97 ha.

According to the NEMA Act, the applicant must consult with the Interested and Affected Parties, for the process of NEMA Application, Environmental Impact Assessment (EIA), Basic Assessment Report (BAR) and Environmental Management Programme (EMPr).

3. PROJECT LOCATION

The proposed prospecting right study area, falls within the Joe Morolong Local Municipality of John Taolo Gaetsewe District Municipality (previously Kgalagadi). The proposed site is located approximately 30 km North-West of Huidelvllei, 195km North of Kuruman, 165km North of Hotazel and 435km North-West of Kimberly.

4. PROJECT DESCRIPTION

The project includes prospecting of Manganese Ore and Iron Ore as per the prospecting activities (discussed more fully in the Prospecting Work Programme), all of which will be covered by an approved Basic Assessment Report (BAR) and Environmental Management Programme (EMPr).

A standard phased approach on all prospecting activities will be implemented, and prospecting will progress from one phase to another, based on the success of the preceding phase.

Each prospecting activity will be undertaken on a scheduled timeline, with some activities being run concurrently, while others will run sequentially. Decision making regarding a way forward, will be informed by specific milestone. The proposed duration of the prospecting and evaluation activities is 5 years.

The proposed prospecting programme will entail both non-invasive and invasive techniques, as described more fully below.

- **Non-Invasive Activities (12 Months)**

Phase One: Detailed Desktop Study

This will begin with the collecting and evaluation of all available geological information (i.e. previous exploration reports, geophysical and remote sensing surveys).

Phase Two: Reconnaissance and Geological Mapping. (10 Months)

This is expected to complete within the period of four months. Detailed geological mapping is done to understand the distribution of the different lithologies in the area, and to understand the relationship between them and to identify possible economically viable units. Geological mapping and post-field work map compilation is expected to take six months to complete. At the end of this phase, geological and geophysical maps will be produced and targets for detailed follow-up will be selected.

Phase Three: Interpretation and Reporting. (2 Months)

Two months will be required for geochemical data interpretation and report compilation.

- **Invasive Activities (36 Months)**

Phase four: Pitting & Trenching Programme. (12Months)

Depending on outcomes of Phase 1, trenching (4 trenches with 2m long x 2m depth x 2m wide) will be conducted to expose the bedrock and to take samples in areas where there are no outcrops. To achieve this phase, Shanatsi Geoscience Africa will provide geologists, works foreman, laborer, drilling contractors, laboratory technicians required. About 300 Samples collected from this phase will be sent to the laboratory for analysis. This will give an indication of the continuity or discontinuity of mineralization in areas with no or little outcrops and provide a better overall understanding of the project. This phase is expected to last for twelve months.

Phase Five: Percussion Drilling. (12 Months)

When the analyses are done, percussion drilling will be conducted to identify possible high-grade zones, the lateral and vertical extent of anomalies. Percussion drilling will mainly concentrate on favorable sites identified in the previous phases. About 8 holes at 50 m depth of percussion drilling will be done and over 250 samples will be collected for analyses. It is expected that this stage will be completed in twelve months.

Phase six: Diamond Drilling. (12 Months)

Depending on the results of percussion drilling, closely spaced diamond drilling which aims to complete drill holes between existing holes will be conducted. About 8 holes at 50 m depth will be conducted with 250 samples collected for metallurgical, geochemical, and geotechnical analyses for ore body modelling. This stage will be completed in twelve months.

Phase Seven: Pre-feasibility studies (12 Months)

The final phase of prospecting will involve detailed resource and reserve estimations, engineering, and economic studies. All documents (i.e. Environmental Impact Assessment Report and, social and labor plan) necessary for mining right application will be compiled. It is expected that this stage will require twelve months to complete. Shanatsi Geoscience Africa will also be responsible for providing the expertise needed to undertake this phase and these expertise ranges from environmental specialists, geologists, mine economics, engineers, accountants, and consultants.

5. PROJECT NEED AND DESIRABILITY

5.1 Need

The prospecting activity being applied for are required in order to investigate the presence of suitability mineralization and, if so, whether this mineralization can be economically and feasible mined in future which, in turn, presents various socio-economic benefits to the region. The proposed prospecting activity are needed in order to determine the exact position, extent, grades

and quality of manganese and iron ore. These minerals are of significant value and the mining thereof has the potential to contribute positively to the South African economy. The geological characteristics of the preferred location meet the prerequisites for concentration of these minerals

5.2 Desirability

Mining as a whole is an important player in the South African economy. The industry contributes R8 for every R100 produced by the national economy. The mining industry of the province is of national and international importance. It contributed 28.9% to the GDP in 2002 and 27.6% in 2008. The Northern Cape produces approximately 37% of South Africa's diamond output, 44% of its zinc, 70% of its silver, 84% of its iron-ore, 93% of its lead and 99% of its manganese. Manganese was the star of 2017, with production of the metal rising by 32% (Mining: winners and losers of 2017 Statistics)

The Northern Cape mining value chain primarily constitutes exploration/prospecting, shaft set-up and mining. The Northern Cape Provincial Spatial Development Framework (PSDF, 2011) identifies significant societal challenges in terms of employment and poverty. According to the PSDF (2011) these issues can be alleviated and addressed through long-term sustainable economic growth and development. Opportunities for potential growth include mining and mineral processing.

The PSDF (2012) identifies the proposed land-use for the immediate area as extensive agriculture with extractive industrial uses to some extent. Although this application relates to prospecting, if approved and quality minerals are found during these phases, it may lead to mining in the future which may in turn contribute to economic growth. This development is thus in line with the PSDF.

In addition to the above, the medium- to long term fundamentals for base metals remain positive. The detailed geology of manganese and iron ore mineralization of the area is fairly well-known, the proposed prospecting and future mining of the proposed area presents significant opportunities for alleviating the scourge of poverty and unemployment in the area. Successful exploration may lead to the development of local mines and associated industries and be the catalyst for skills development and job creation in a generally impoverished area with very high levels of unemployment and poor economic development.

6. BASIC ASSESSMENT REPORT

A Basic Assessment Report (BAR) is an effective planning and decision-making tool which allows for the identification of potential environmental consequences of a proposed activity, and its

management through the planning process. In terms of the National Environmental Management Act (NO.107 of 1998) and associated Regulations (GN R983 of 2014) there are listed activities which may not commence without environmental authorization. Listed activity triggered by proposed prospecting right application is detailed below:

ACTIVITY	APPLICABLE LISTING NOTICE
Site preparation and/or site establishment	Listing Notice 1, GN R327 of 2017; Activity 27
Drilling for prospecting purposes	Listing Notice 1, GN R327 of 2017, Activity 20 Any activity including the operation of that activity which requires a prospecting right in terms of section 16 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002), including— (a) associated infrastructure, structures and earthworks, directly related to prospecting of a mineral resource; or [including activities for which an exemption has been issued in terms of section 106 of the Mineral and Petroleum Resources Development Act, 2002 (Act No. 28 of 2002)]
Erection of temporary drill camp or office site, ablution facilities, workshops and storm water control berms for the duration of the works	GN R327 of 2017, Listing Notice 1; Activity 20
Storing and stockpiling of excavated material	GN R327 of 2017 Listing Notice 1 Activity 20
Access road	GN R983 of 2017

	Listing Notice 1 Activity 24 and 56
The decommissioning of any activity requiring a closure certificate in terms of Section 43 of the MPRDA	GN R327 of 2017 Listing Notice 1 Activity 22

7. BIOMENTAL AS AN INDEPENDENT ENVIRONMENTAL ASSESSMENT PRACTITIONER

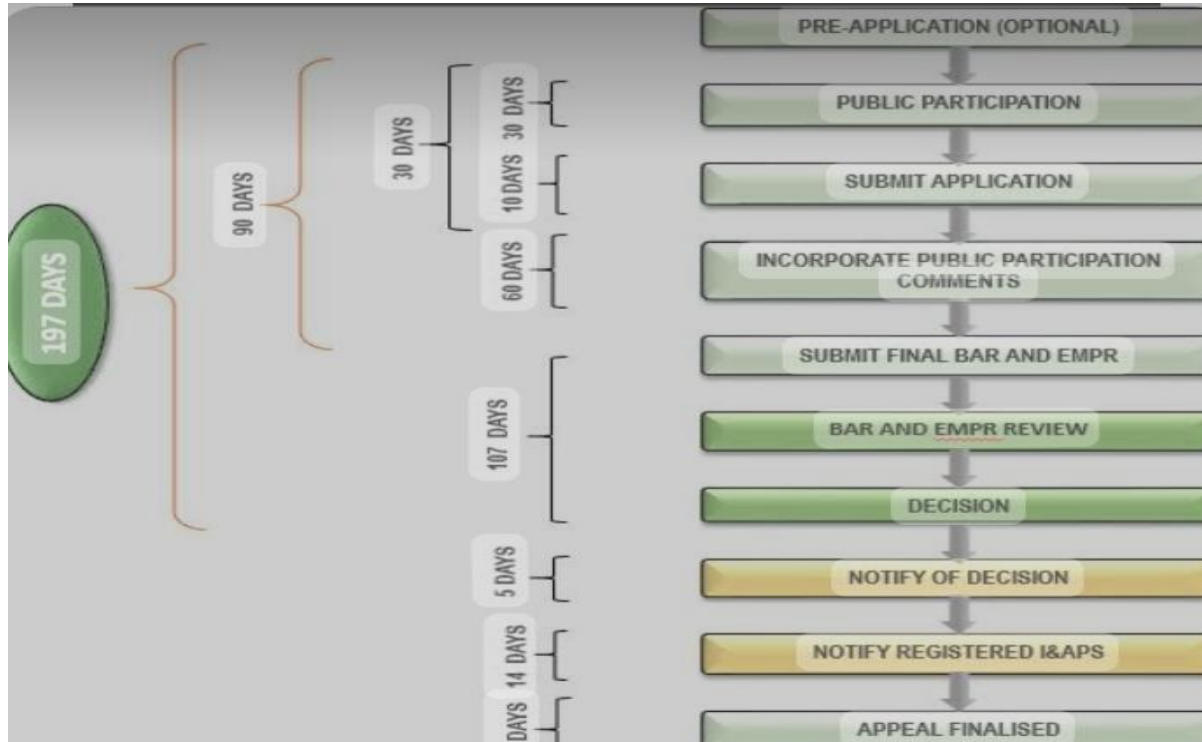
Biomental Services (Pty) Ltd is an environmental consultant that provides consultation services on various range of environmental aspects in mining, construction, renewable energy and agricultural sector. Through strategic partnerships we offer business sustainability solutions to our client. We help clients manage environmental impacts, and move forward in their business with the assurance they need. We are full-service Environmental Management Company that partner with clients to offer independent services and specialized business solutions that improves quality, safety and productivity, reduce risk and facilitate more sustainable and environmentally friendly operations.

Biomental Services has grown apace with the increased market for environmental advisory services in South Africa, our principles area of expertise lies in assessing the risk and impacts of the development process on the natural, social and economic environment through, among other instruments, the environmental impact assessment (EIA) process. We believe in offering these services, we contribute meaningfully towards sustainable development.

We adopt a scientific approach to our studies, underpinned by an informed and holistic view of the environment and a pragmatic approach to sustainable development. This results in deliverables that are robust, defensible and credible. This is important for both the development and EIA processes, and as a result, the outputs of our studies demonstrate objectivity, sincerity and professionalism. We believe that a balanced between development and environmental protection can be achieved by skillful and careful planning and that our outputs reflect these. Our experience in mining and construction advisory services have contributed to deep understanding of the environment and social challenges associated with the establishing and operation of facilities and infrastructure in the emerging market

Biomental Services have been appointed as the independent Environmental Assessment Practitioners (EAP), responsible for the completing the environmental authorization and Basic assessment process.

8. PROJECT PHASES



9. WHAT IS YOUR ROLE?

If you consider yourself an I&AP for the proposed project, we encourage you to make use of the opportunity created by the Public Participation Process to become involved and raise any issue or concern which affect and /or interest you.

By completing and submitting the accompanying registration form, we will ensure that you are registered as an I&AP for the project, and that your concerns or queries regarding the project will be noted. We will also ensure that you are provided with future information pertaining to the project as well as the availability of the draft and final Basic Assessment Report (BAR) for review purposes.

10. COMMENTS AND INQUIRIES

Please direct all comments, queries to:

Tiyiselani Macebele

10 c/n Pixley ka same & Jenny

De Aar

7000

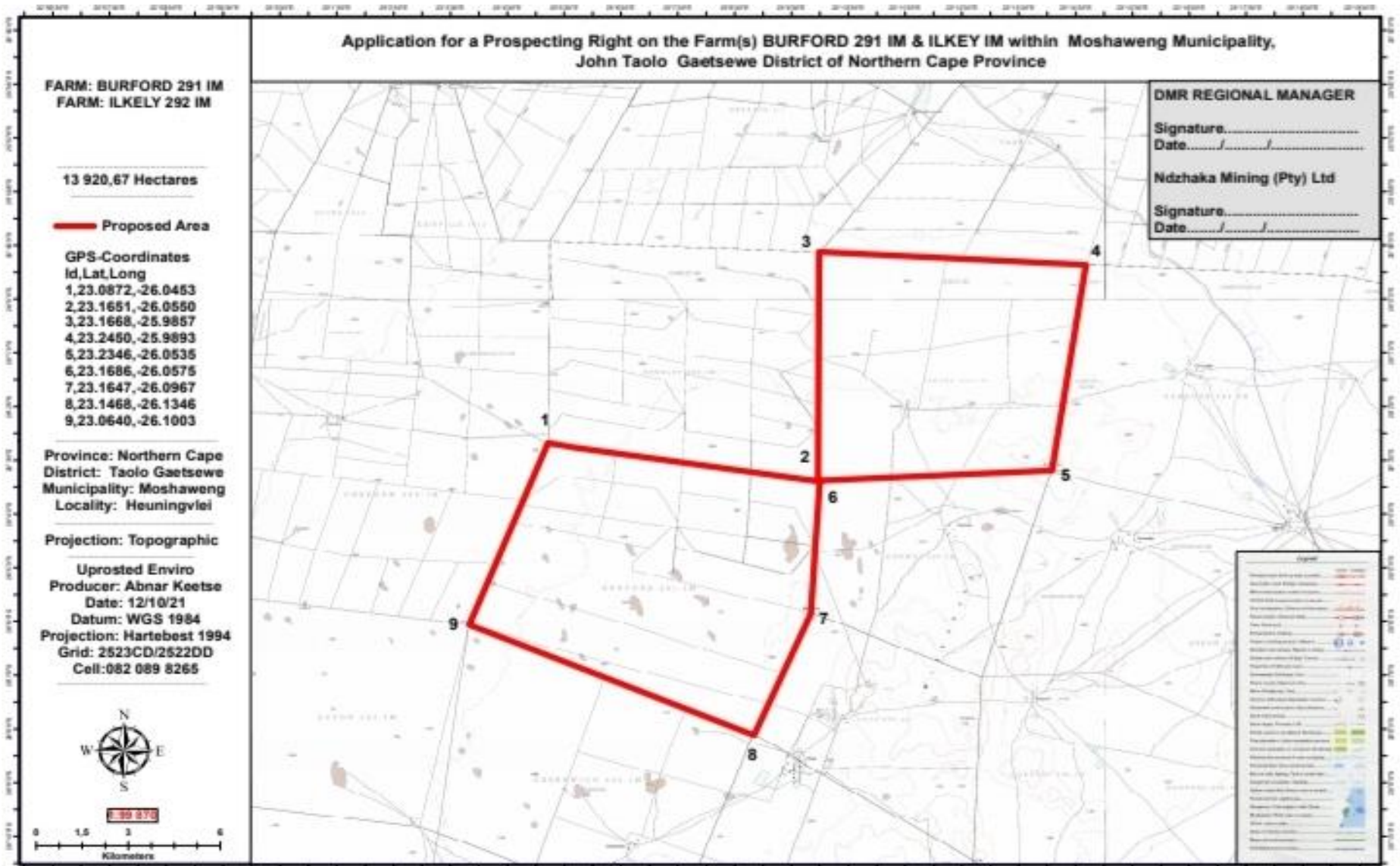
Tel No: 053 004 0204

Cell No:068 321 4288/060 570 2461

Email: tiyselani@biomental.co.za;info@biomental.co.za;mahori@biomental.co.za

Website: www.biomental.co.za

APPENDIX A: PROJECT LOCALITY MAP(Topographic)



APPENDIX B: REGISTRATION AND COMMENT FORM

Public Participation Process for the proposed prospecting right in terms of section 16 of the mineral resource and petroleum development act,2002 (act 28 of 2002) as amended by section 12 of act of 49 of 2008: for Manganese Ore and Iron Ore: Ilkley 292 and Burford 291 within the administrative district of Kuruman, Northern Cape Province).

REGISTRATION AND COMMENT FORM

REGISTRATION AND COMMENT FORM

KINDLY COMPLETE THIS FORM IN DETAIL AND RETURN IT TO:

Telephone: 053 004 0204

Cell : 068 321 4288 or 060 570 2461

Email : tiyiselani@biomental.co.za;info@biomental.co.za

Address : 10 c/n Pixley ka same& Jenni street

De Aar

7000

PERSONAL DETAILS:

Title

FirstName.....

Surname.....

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Email.....

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Telephone.....Fax.....

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Organization(If applicable).....

Capacity (e.g Chairperson, member etc).....

Physical Address:.....

Town.....Code.....
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Postal Address.....
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Town.....Code.....
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1. Are you interested or affected party? Yes/no

If the answer is yes, how so?

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2. How will the proposed project affect you? Yes/no

If the answer is yes, how so?

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3. Will the project have any detrimental effect on the Heritage, Culture and History of the area? Yes/no

If yes, explain.

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4. Will the project have any negative impact on the environment? Yes/no

If yes can you provide reasons?

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5. Will the project have a negative effect on the appearance of the area or erode sense of place-i.e. negative visual impact? Explain. Yes/no

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6. General Comments

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