

## BASIC ASSESSMENT REPORT



**agriculture, environmental affairs,  
rural development and land reform**

Department:  
agriculture, environmental affairs,  
rural development and land reform .  
NORTHERN CAPE PROVINCE  
REPUBLIC OF SOUTH AFRICA

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(For official use only)

**File Reference Number:**

**Application Number:**

**Date Received:**


**Basic Assessment Report in terms of the Environmental Impact Assessment Regulations, 2014, promulgated in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended.**

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**Kindly note that:**

1. This **basic assessment report** is a standard report that may be required by a competent authority in terms of the EIA Regulations, 2014 and is meant to streamline applications. Please make sure that it is the report used by the particular competent authority for the activity that is being applied for.
2. This report format is current as of 07 April 2017. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority
3. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
4. Where applicable **tick** the boxes that are applicable in the report.
5. An incomplete report may be returned to the applicant for revision.
6. The use of “not applicable” in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the rejection of the application as provided for in the regulations.
7. This report must be handed in at offices of the relevant competent authority as determined by each authority.
8. No faxed or e-mailed reports will be accepted.
9. The signature of the EAP on the report must be an original signature.
10. The report must be compiled by an independent environmental assessment practitioner.
11. Unless protected by law, all information in the report will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this report on request, during any stage of the application process.
12. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed.
13. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report must also be submitted.

**SECTION A: ACTIVITY INFORMATION**

Has a specialist been consulted to assist with the completion of this section? YES NO

If YES, please complete the form entitled “Details of specialist and declaration of interest” for the specialist appointed and attach in Appendix I.

**1. ACTIVITY DESCRIPTION**

**a) Describe the project associated with the listed activities applied for**

**Project background**

The Northern Cape Department of Roads and Public Works (DR&PW) (the proponent) initiated the development of the Northern Cape Mental Health Hospital prior to November 2006. This development was originally not authorized by the Northern Cape Department: Agriculture, Environmental Affairs, Rural Development and Land Reform (DAEARDLR). The proponent applied for a Section 24 G application for the unlawful development of the Mental Health Hospital.

The Northern Cape Department of Environment and Nature Conservation (DENC) (now DAEARDLR) approved the proponent’s S24 G application in February 2013. The first phase of the Kimberley nursing college and student accommodation was initiated in November 2015. Following agreements with the DAEARDLR, the first phase of the Kimberley nursing college development’s environmental authorization formed part of the S24 G authorization for the Northern Cape Mental Health Hospital.

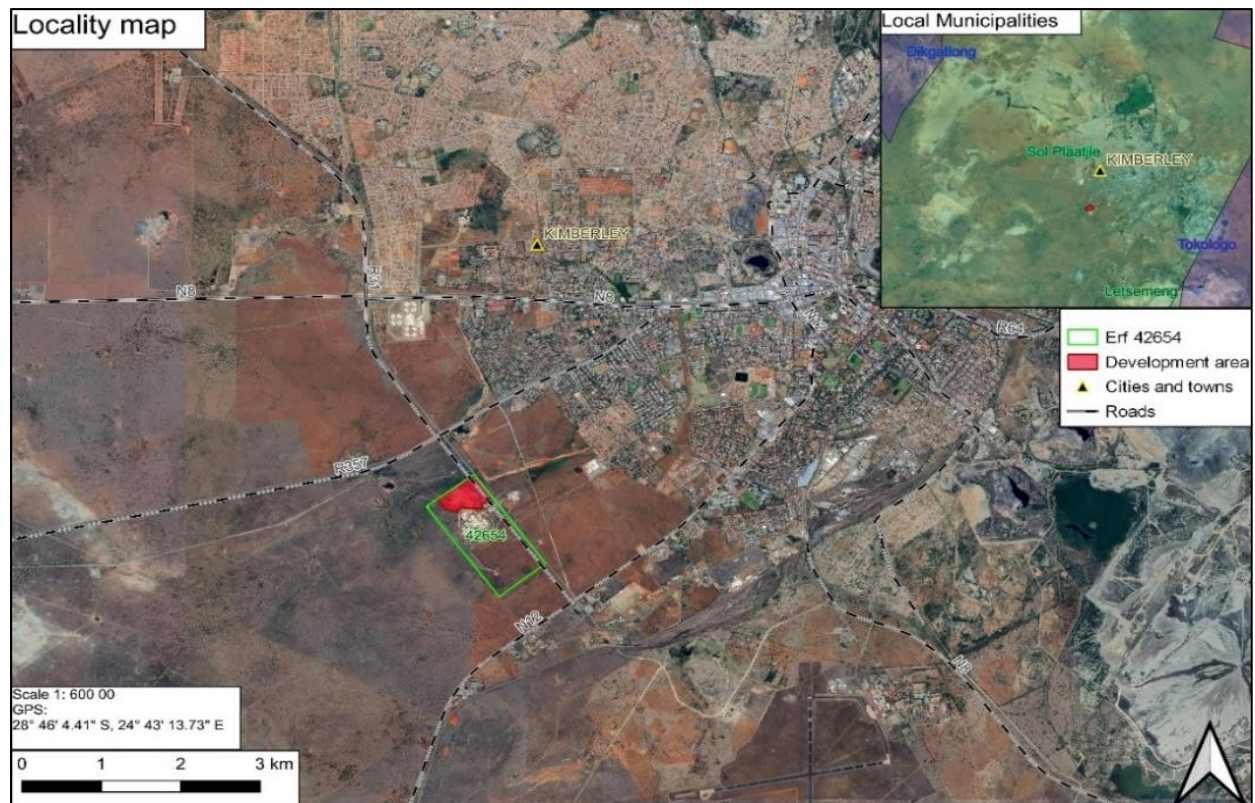


Figure 1 Locality map of the proposed project

This application focuses on the expansion of the Kimberley nursing college and the student accommodation development, phases 2 and 3.

#### Project description

Environmental Management Group is applying for Environmental Authorization on behalf of the Northern Cape Department of Roads and Public Works (the proponent) for the above-mentioned project (phases 2 and 3). The development will be situated in the southern parts of Kimberley, which falls within the Sol Plaatje Local Municipality. The Kimberley nursing college and student accommodation will be located on the RE of erf 42654, situated immediately south of the R31 route from Kimberley to Daniëlskuil adjacent to the Kimberley Mental Health Hospital.

This new expansion Nursing college will bring value to the surrounding/adjacent community and more significantly to students. The construction of the facilities is next to the Kimberley mental health facility and drug rehab which will complement and amplify the effectiveness of many other parts of the health system, providing continuous availability of services for acute and complex conditions. The concentrate scarce resources within well-planned referral networks will respond efficiently to the population health rate needed by the 350 students from the current phase 1 of the student accommodation and 650 students of phase 3 of the newly underway student accommodation and thus providing more than one thousand students and even the adjacent community.

The Kimberley nursing college will consist of two phases (2A and 2B), which will additionally incorporate spaces for sport and recreation:

#### Phase 2A will include:

-  Main gatehouse
-  Administration centre
-  Fitness centre
-  Resource centre
-  Student centre
-  Simulation nursing
-  Academic instruction
-  Support service perimeter fence
-  Parking areas

#### Phase 2 B will include:

-  Administration centre
-  Simulation nursing
-  Academic Instruction
-  Auditorium
-  Support services and parking areas



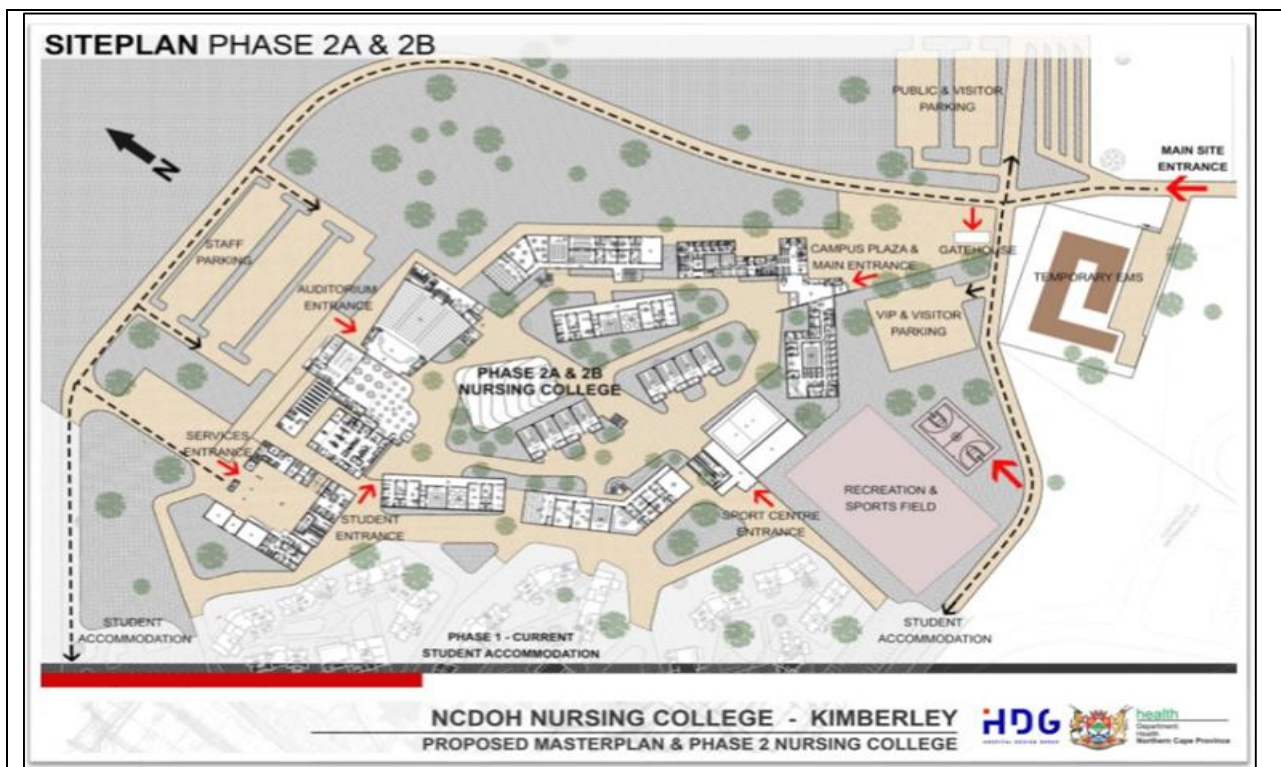


Figure 2 Infrastructure design layout for the proposed development (Nursing college for phase one and two).

**Sewer reticulation:** The proponent is constructing a sewer reticulation system to dispose of waste from the proposed development and ensure no hazardous waste is produced. The Sol Plaatje local municipality has sufficient capacity and the approval will be updated in the Final BAR. Non-hazardous waste must be disposed of responsibly to minimize environmental impacts. The architect's designs for the sewer layout will limit harm to the environment. The proponent must work with the local municipality to handle waste sustainably and comply with regulations to minimize the facility's impact and promote community well-being.

**Water:** The proposed development will source its water supply from a municipal connection. It's likely that the Sol Plaatje Local Municipality will have enough capacity, however, this will be confirmed via a letter from the Local municipality in the Final BAR. The proponent is also considering drilling boreholes for non-potable water usage; however, these activities will occur later in the future. Once such water-uses become relevant, the proponent should register those water-uses in accordance with the National Water Act No. 36 of 1998.

**Stormwater management:**

According to the new designs for Kimberley nursing college phase two (2), architects have taken steps to ensure stormwater management is taken into account in the designs of the proposed development. Stormwater runoff can be a major source of pollution and environmental damage, so it's important to manage it properly by incorporating the design features from the architects and the designs can help to reduce the environmental impacts of the proposed development and ensure the long-term sustainability of the water supply. Refer to **Appendix C** for the Stormwater management plan.

b) Provide a detailed description of the listed activities associated with the project as applied for

Listed activity as described in GN 327, 325 and 324	Description of project activity
<p><b>Example:</b>  <b>GN 327 Item xx xx): The construction of a bridge where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line.</b></p>	<p><b>A bridge measuring 5 m in height and 10m in length, no wider than 8 meters will be built over the Orange river</b></p>
<b>Listing Notice 1</b>	
<p>R327: Activity 27</p> <p><i>The clearance of an area of 1 hectare or more, but less than 20 hectares of indigenous vegetation,</i></p>	<p>The construction of a nursing college and accommodation will cover an approximate 15ha of disturbed, indigenous vegetation.</p>

## 2. FEASIBLE AND REASONABLE ALTERNATIVES

“**alternatives**”, in relation to a proposed activity, means different means of meeting the general purpose and requirements of the activity, which may include alternatives to—

- (a) the property on which or location where it is proposed to undertake the activity;
- (b) the type of activity to be undertaken;
- (c) the design or layout of the activity;
- (d) the technology to be used in the activity;
- (e) the operational aspects of the activity; and
- (f) the option of not implementing the activity.

Describe alternatives that are considered in this application as required by Appendix 1 (3)(h), Regulation 2014. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity (NOT PROJECT) could be accomplished in the specific instance taking account of the interest of the applicant in the activity. The no-go alternative must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed.

The determination of whether site or activity (including different processes, etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment. After receipt of this report the, competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees, minutes and seconds. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

a) **Site alternatives**

<b>Alternative 1 (preferred alternative)</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
The proposed development on the RE extend of Erf Number 42654 is the only best viable option considering current zoning schemes and the existing Mental Health Hospital's proximity to the proposed development site.	28°46'6.94"S	24°43'12.37"E
<b>Alternative 2</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
The only viable location for the proposed development is on the RE extend of Erf Number 42654. Alternative sites will not provide a similar spatial/ land use cohesion as would be found on the preferred location.	28°46'6.94"S	24°43'12.37"E
<b>Alternative 3</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)

\*\*\*The proposed development is not a linear activity

In the case of linear activities:

**Alternative:**

**Latitude (S):**

**Longitude (E):**

Alternative S1 (preferred)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity


Alternative S2 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity


Alternative S3 (if any)

- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity


For route alternatives that are longer than 500m, please provide an addendum with co-ordinates taken every 250 meters along the route for each alternative alignment.

In the case of an area being under application, please provide the co-ordinates of the corners of the site as indicated on the lay-out map provided in Appendix A of this form.

**b) Lay-out alternatives**

<b>Alternative 1 (preferred alternative)</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
The design layout for the Kimberley nursing college phase two (2) and student accommodation is the preferred and only viable option. <b>See appendix C</b> for the design layout of the facility.	28°46'6.94"S	24°43'12.37"E
<b>Alternative 2</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)
The design layout has been finalized with environmental sensitivities in mind. Therefore, no other alternatives apply. If any such alternatives arise before the submission of the final BAR, it will be updated.		
<b>Alternative 3</b>		
Description	Lat (DDMMSS)	Long (DDMMSS)


**c) Technology alternatives**

<b>Alternative 1 (preferred alternative)</b>
As far as known and possible, new technology will be used in the construction and operational phases of this proposed development. Consequently, no other alternatives will apply.
<b>Alternative 2</b>
<b>Alternative 3</b>



**d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)**

<b>Alternative 1 (preferred alternative)</b>		
No other alternatives have been introduced. If any such alternatives come to light, the final BAR will be updated.	28°46'6.94"S	24°43'12.37"E
<b>Alternative 2</b>		
<b>Alternative 3</b>		






**e) No-go alternative**

The No-Go alternative implies that the proposed development is not authorised leading to several outcomes. Some positive outcomes include:  No further disturbance of the environment
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 No additional stress on municipal service delivery  
 No additional waste will be introduced into the municipal system.

Besides the few positive outcomes, the No-Go alternative will have several negative outcomes:

 The investment and resources already paid into the designs of this project will go to waste.  
 No additional educational opportunities for local nurses (on which the SA health care system is heavily reliant on)  
 Job opportunities will be lost  
 No additional expansion of the local municipality's infrastructure  
 The No-Go alternative will likely create a precedent which will deter future investments in similarly related projects.

When considering both the positive and negative outcomes of the No-Go alternative it is the EAP's professional opinion that the No-Go alternative is not the preferred alternative.

Paragraphs 3 – 13 below should be completed for each alternative.

### 3. PHYSICAL SIZE OF THE ACTIVITY

a) Indicate the physical size of the preferred activity/technology as well as alternative activities/technologies (footprints):

**Alternative:**

- Alternative A1<sup>1</sup> (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

**Size of the activity:**

±15 ha / 150000m <sup>2</sup>
N/A
m <sup>2</sup>

or, for linear activities:

**Alternative:**

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

**Length of the activity:**

m
m

b) Indicate the size of the alternative sites or servitudes (within which the above footprints will occur):

**Alternative:**

- Alternative A1 (preferred activity alternative)
- Alternative A2 (if any)
- Alternative A3 (if any)

**Size of the site/servitude:**

150000 m <sup>2</sup>
N/A
m <sup>2</sup>

<sup>1</sup> "Alternative A.." refer to activity, process, technology or other alternatives.

#### 4. SITE ACCESS

Does ready access to the site exist?

YES	NO
⌘	

If NO, what is the distance over which a new access road will be built

Describe the type of access road planned:

The proposed development is situated on the RE extent of Erf No. 42654, south of Kimberley, Northern Cape Province. The site is directly accessible from a T-junction leading off from the R31. See the locality map (Appendix A).

Include the position of the access road on the site plan and required map, as well as an indication of the road in relation to the site.

#### 5. LOCALITY MAP

An A3 locality map must be attached to the back of this document, as Appendix A. The scale of the locality map must be relevant to the size of the development (at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map.). The map must indicate the following:

- an accurate indication of the project site position as well as the positions of the alternative sites, if any;
- indication of all the alternatives identified;
- closest town(s);
- road access from all major roads in the area;
- road names or numbers of all major roads as well as the roads that provide access to the site(s);
- all roads within a 1 km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
- locality GPS co-ordinates (Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection).

#### 6. LAYOUT/ROUTE PLAN

A detailed site or route plan(s) must be prepared for each alternative site or alternative activity. It must be attached as Appendix A to this document.

The site or route plans must indicate the following:

- the property boundaries and numbers of all the properties within 50 metres of the site;
- the current land use as well as the land use zoning of the site;
- the current land use as well as the land use zoning each of the properties adjoining the site or sites;
- the exact position of each listed activity applied for (including alternatives);
- servitude(s) indicating the purpose of the servitude;

- a legend; and
- a north arrow.

**7. SENSITIVITY MAP**

The layout/route plan as indicated above must be overlain with a sensitivity map that indicates all the sensitive areas associated with the site, including, but not limited to:

- watercourses;
- the 1:100 year flood line (where available or where it is required by DWS);
- ridges;
- cultural and historical features;
- areas with indigenous vegetation (even if it is degraded or infested with alien species); and
- critical biodiversity areas.

The sensitivity map must also cover areas within 100m of the site and must be attached in Appendix A.

**8. SITE PHOTOGRAPHS**

Colour photographs from the centre of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under Appendix B to this report. It must be supplemented with additional photographs of relevant features on the site, if applicable.

**9. FACILITY ILLUSTRATION**

A detailed illustration of the activity must be provided at a scale of at least 1:200 as Appendix C for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity.

**10. ACTIVITY MOTIVATION**

Motivate and explain the need and desirability of the activity (including demand for the activity):

<b>1. Is the activity permitted in terms of the property's existing land use rights?</b>	<b>YES</b>	<del>NO</del>	Please explain
The site is zoned as institutional land according to the Sol Plaatje SDF. The proposed development will thus not infringe on any land use rights.			
<b>2. Will the activity be in line with the following?</b>			
<b>(a) Provincial Spatial Development Framework (PSDF)</b>	<b>YES</b>	<del>NO</del>	Please explain
The proposed development will see the operations of an educational facility which facilitates the education and training of health care professionals which is in line with the provincial spatial development framework (PSDF).			

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<b>(b) Urban edge / Edge of Built environment for the area</b>	<b>YES</b>	<b>NO</b>	Please explain
The activity is located at the outer boundary within which urban expansion can be accommodated or coincide with the urban edge line			
<b>(c) Integrated Development Plan (IDP) and Spatial Development Framework (SDF) of the Local Municipality (e.g. would the approval of this application compromise the integrity of the existing approved and credible municipal IDP and SDF?).</b>	<b>YES</b>	<b>NO</b>	Please explain
The proposed development of the Kimberley nursing college phase two (2), in addition with housing to accommodate these students falls in line with Sol Plaatje local municipality's IDP and SDF for improving healthcare facilities and the provisioning of educational facilities.			
<b>(d) Approved Structure Plan of the Municipality</b>	<b>YES</b>	<b>NO</b>	Please explain
According to the Sol Plaatje local municipality spatial development framework (2018-2023) the proposed development answers the local municipality and the Frances Baard district's current facing issues of building a better developed educational framework and the improvement of health facilities. Additionally, the site is indicated within the Carter Glen Large-Scale Mixed-use Precinct for future projects. Within this spatial development plan, space was created for institutional facilities for developments of this nature.			
<b>(e) An Environmental Management Framework (EMF) adopted by the Department (e.g. Would the approval of this application compromise the integrity of the existing environmental management priorities for the area and if so, can it be justified in terms of sustainability considerations?)</b>	<b>YES</b>	<b>NO</b>	Please explain
The proposed development coincides with the priorities set out in the Frances Baard District Municipality's EMF to uplift the district's health care system. Additionally, environmentally sustainable development practices will be employed for the proposed development.			
<b>(f) Any other Plans (e.g. Guide Plan)</b>	<b>YES</b>	<b>NO</b>	Please explain
<b>3. Is the land use (associated with the activity being applied for) considered within the timeframe intended by the existing approved SDF agreed to by the relevant environmental authority (i.e. is the proposed development in line with the projects and programmes identified as priorities within the credible IDP)?</b>	<b>YES</b>	<b>NO</b>	Please explain
The proposed development will take place in an area zoned for institutional. The proposed development entails the development of a nursing college phase two (2) which falls in line with the SDF.			

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<p><b>4. Does the community/area need the activity and the associated land use concerned (is it a societal priority)? (This refers to the strategic as well as local level (e.g. development is a national priority, but within a specific local context it could be inappropriate.)</b></p>	YES	NO	Please explain
<p>The proposed development addresses the institutional development needs of the local municipality. The proposed development will see the training of nursing professionals and the employment of staff in various capacities which answers the needs for improved health care, skills development and job creation, both permanent and temporary.</p>			
<p><b>5. Are the necessary services with adequate capacity currently available (at the time of application), or must additional capacity be created to cater for the development? (Confirmation by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)</b></p>	YES	NO	Please explain
<p>Efficient municipal basic services are available for the proposed development. Proof of the municipal service capacity will be provided in the <b>Final BAR</b>.</p>			
<p><b>6. Is this development provided for in the infrastructure planning of the municipality, and if not what will the implication be on the infrastructure planning of the municipality (priority and placement of services and opportunity costs)? (Comment by the relevant Municipality in this regard must be attached to the final Basic Assessment Report as Appendix I.)</b></p>	YES	NO	Please explain
<p>This proposed development is provided for, in the infrastructure planning of the municipality.</p>			
<p><b>7. Is this project part of a national programme to address an issue of national concern or importance?</b></p>	YES	NO	Please explain
<p>Yes, this proposed development answers the National Strategic Plan to improve the education and availability of nursing professionals in South Africa as stated in the National Policy on Nursing Education and Training.</p>			
<p><b>8. Do location factors favour this land use (associated with the activity applied for) at this place? (This relates to the contextualisation of the proposed land use on this site within its broader context.)</b></p>	YES	NO	Please explain
<p>Yes, the Kimberley nursing college phase two (2) and student accommodation will take place adjacent to the Kimberley mental health hospital. The proposed development is indicated within the Carter Glen Large-Scale Mixed-use Precinct for future projects. Within in this spatial development plan, space was created for institutional facilities such as the proposed activity. In addition, the proximity of the proposed college to the Kimberly Mental Health hospital allows efficient movement for students and staff between the two facilities.</p>			
<p><b>9. Is the development the best practicable environmental option for this land/site?</b></p>	YES	NO	Please explain
<p>The proposed development will take place next to the existing Mental Health hospital and the first phase of student accommodation. These developments have caused some level of disturbance. The proposed Phase 2 and 3 development presented in this BAR will therefore occur on an already disturbed environment. Therefore the proposed development is the preferred option.</p>			



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<b>10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?</b>	<b>YES</b>	<b>NO</b>	Please explain
<p>The negative impacts identified during the impact assessment as well as those raised by the I&amp;AP's will be addressed by implementing the mitigation measures contained in this report, which will in turn eliminate the majority of negative impacts. The positive impacts associated with the proposed development will not only be of great benefit for the local community in terms of quality education and skills development, but it will also create employment opportunities, addressing issues of national concern.</p>			
<b>11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?</b>	<b>YES</b>	<b>NO</b>	Please explain
<p>Yes, the proposed development is situated within the Carters Glen mixed-use concentration zone, which the Sol Plaatje local municipality has assigned a high priority to initialise the development of mixed-use developments such as the proposed nursing institution.</p>			
<b>12. Will any person's rights be negatively affected by the proposed activity/ies?</b>	<b>YES</b>	<b>NO</b>	Please explain
<p>After addressing all issues raised by the I&amp;AP's, impacts identified during the impact assessment and implementing all the proposed mitigations, no rights of the surrounding land-owners nor the surrounding environment will be negatively affected, provided that the applicant adheres to the proposed mitigations, recommendations and conditions of this report and the EMPr.</p>			
<b>13. Will the proposed activity/ies compromise the "urban edge" as defined by the local municipality?</b>	<b>YES</b>	<b>NO</b>	Please explain
<p>The proposed development is located at the outer boundary of Kimberley of which urban expansion can be accommodated or coincide with the urban edge line.</p>			
<b>14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?</b>	<b>YES</b>	<b>NO</b>	Please explain
<p>Yes, SIP 14: Higher education infrastructure.</p>			
<b>15. What will the benefits be to society in general and to the local communities?</b>			Please explain
<p>The improved education of nursing professionals which supports South Africa's overarching nursing dependent health care system. The proposed development will also produce permanent and temporary jobs, and facilitate the overall improvement of the health care system.</p>			
<b>16. Any other need and desirability considerations related to the proposed activity?</b>			Please explain
<p>Multiple permanent and contract job opportunities will be created. The proposed development project will also add on the existing Phase 1 Nursing College Accommodation.</p>			
<b>17. How does the project fit into the National Development Plan for 2030?</b>			Please explain
<p>One of the key objectives stated within the NDP of South Africa is to build human resources in the health sector. The NDP stated that it has the needs to "(72) accelerate the production of community health specialist in the five main specialist areas (medicine, surgery, including anaesthetics, obstetrics, paediatrics, and psychiatry) and train more nurses."</p> <p>It is thus evident that the proposed development will answer the NDP's call for action 72 mentioned above.</p>			

**18. Please describe how the general objectives of Integrated Environmental Management as set out in section 23 of NEMA have been taken into account.**

Section 23 requires the following general objectives:

(2) The general objective of integrated environmental management is to—

- a. Promote the integration of the principles of environmental management set out in section 2 into the making of all decisions which may have a significant effect on the environment;
- b. Identify, predict and evaluate the actual and potential impact on the environment, socio-economic conditions and cultural heritage, the risks and consequences and alternatives and options for mitigation of activities, with a view to minimising negative impacts, maximising benefits, and promoting compliance with the principles of environmental management set out in section 2;
- c. Ensure that the effects of activities on the environment receive adequate consideration before actions are taken in connection with them;
- d. Ensure adequate and appropriate opportunity for public participation in decisions that may affect the environment;
- e. Ensure the consideration of environmental attributes in management and decision-making which may have a significant effect on the environment; and
- f. Identify and employ the modes of environmental management best suited to ensuring that a particular activity is pursued in accordance with the principles of environmental management set out in section 2.

These are achieved as follows:

- a) Decision making based on the findings of the BAR process
- b) Impacts have been identified, predicted and evaluated in terms of environmental, socio-economic and cultural heritage environment. The risks, consequences and alternatives and options for mitigation have been evaluated.
- c) This BAR process and the EMP ensure that the effects of the activities on the environment receive adequate consideration before actions are taken in connection with them.
- d) There have been adequate and appropriate opportunities for public participation that will lead to the decision being taken.
- e) Environmental attributes have been considered in management and decision making.
- f) The modes best suited to environmental management for this activity have been followed and recommended.

**19. Please describe how the principles of environmental management as set out in section 2 of NEMA have been taken into account.**

NEMA Section 2 requires:

(2) Environmental management must place people and their needs at the forefront of its concern, and serve their physical, psychological, developmental, cultural and social interests equitably.

This has been achieved as follows:

The environmental management relating to the proposed development by the construction of the Kimberley nursing college phase two (2) and student accommodation has been set up in such a way as to place the needs of people at the forefront of its concern while addressing the environmental issues concerning the proposed location. The project has been designed to utilize degraded institutional land on the urban edge which allows for true sustainable management.

**11. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES**

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the

<b>Title of legislation, policy or guideline</b>	<b>Applicability to the project</b>	<b>Administering authority</b>	<b>Date</b>
National Environmental Management Act (Act 107 of 1998)	The proposed project is a listed activity requiring environmental authorization in terms of the Environmental Impact Assessment Regulations, 2017 promulgated under sections 20 and 44 of the National Environmental Management Act, 1998 (Act No.107 of 1998). The applicable activities are in terms of Listing Notice 1 (GNR 327) of 2017, which trigger a Basic Assessment application process.	National and provincial	April
Environmental Impact Assessment Regulations, 2014	Competent Authority	DAERDLR	2014
Constitution of the Republic of South Africa (1996)	Of special relevance in terms of environment is section 24	Constitution of the Republic of South Africa	1996

BASIC ASSESSMENT REPORT

Occupational Health and Safety Act, 1993 (Act No. 85 of 1993):	The purpose of this Act is to provide for the health and safety of persons at work and for the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with, the activities of persons at work. The proposed development will therefore be subject to this Act during the construction and operational Application for Environmental Authorization.	Department of Labour	1993
The National Heritage Resources Act, 1999 (Act No. 25 of 1999)	The National Heritage Resources Act legislates the necessity for cultural and heritage impact assessment in areas earmarked for development, which exceed 0.5 hectares (ha) and where linear developments exceed 300 meters in length. In this regard, the proposed development site will be subject to engagement with the South African Heritage Resources Agency (SAHRA). Potential impact on cultural heritage, paleontological or archaeological resources through excavation activities or disturbance will need to be monitored. Permits may be required per the National Heritage Resources Act (Act No. 25 of 1999).	South African Heritage Resources Agency (SAHRA)	1999
National Water Act ( Act 36 of 1998)	Promotes the protection, use, development, conservation, management, and control of	DWS – National and provincial	1998

**BASIC ASSESSMENT REPORT**

	water resources in a sustainable and equitable manner. The drilling of two boreholes is being planned. The relevant permits will be obtained before any abstraction occurs.		
NEMBA, 2004 (ACT NO. 10 OF 2004)	Promotes the sustainable management of threatened or protected species in South Africa. A DFFE licence is required for the selective removal of affected Camel Thorn trees ( <i>Vachellia erioloba</i> ). A flora harvesting permit is required for the safe transplant of <i>Nerine laticoma</i> .	National and provincial	2004

**12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT**

**a) Solid waste management**

Will the activity produce solid construction waste during the construction/initiation phase?

<b>YES</b>	<b>NO</b>
10m <sup>3</sup>	

If YES, what estimated quantity will be produced per month?

How will the construction solid waste be disposed of (describe)?

Waste from the development site will be collected by waste trucks on a weekly basis and disposed of at the nearest registered landfill site.

Where will the construction solid waste be disposed of (describe)?

At the nearest registered landfill site.

Will the activity produce solid waste during its operational phase?

<b>YES</b>	<b>NO</b>
5m <sup>3</sup>	

If YES, what estimated quantity will be produced per month?

How will the solid waste be disposed of (describe)?

It will be disposed of into the Municipal system.

If the solid waste will be disposed of into a municipal waste stream, indicate which registered landfill site will be used.

A registered landfill site in Kimberley, NC

Where will the solid waste be disposed of if it does not feed into a municipal waste stream (describe)?

N/A



*If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.*

Can any part of the solid waste be classified as hazardous in terms of the NEM:WA? 

YES	NO
-----	----

If YES, inform the competent authority and request a change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

Is the activity that is being applied for a solid waste handling or treatment facility? 

YES	NO
-----	----

If YES, then the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA. An application for a waste permit in terms of the NEM:WA must also be submitted with this application.

**b) Liquid effluent**

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system? 

YES	NO
-----	----

If YES, what estimated quantity will be produced per month? 

m <sup>3</sup>	
----------------	--

Will the activity produce any effluent that will be treated and/or disposed of on site? 

YES	NO
-----	----

*If YES, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.*

Will the activity produce effluent that will be treated and/or disposed of at another facility? 

YES	NO
-----	----

If YES, provide the particulars of the facility:

<b>Facility name:</b>			
<b>Contact person:</b>			
<b>Postal address:</b>			
<b>Postal code:</b>			
<b>Telephone:</b>		<b>Cell:</b>	
<b>E-mail:</b>		<b>Fax:</b>	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

*During the construction phase, the developer will use water sparingly and only when necessary. If any other recommendations arise during the public participation process the final BAR will be updated.*

**c) Emissions into the atmosphere**

Will the activity release emissions into the atmosphere other than exhaust emissions and dust associated with construction phase activities? 

YES	NO
-----	----

If YES, is it controlled by any legislation of any sphere of government? 

YES	NO
-----	----

If YES, the applicant must consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If NO, describe the emissions in terms of type and concentration:

*Normal levels of air emissions related to the development's construction will be produced.*

**d) Waste permit**

Will any aspect of the activity produce waste that will require a waste permit in terms of the NEM:WA? 

YES	NO
-----	----

If YES, please submit evidence that an application for a waste permit has been submitted to the competent authority

**e) Generation of noise**

Will the activity generate noise? 

YES	NO
-----	----

If YES, is it controlled by any legislation of any sphere of government? 

YES	NO
-----	----

Describe the noise in terms of type and level:

The proposed developments operational phase will relatively not produce noise.

**13. WATER USE**

Please indicate the source(s) of water that will be used for the activity by ticking the appropriate box(es):

<b>Municipal system</b>	Water board	Groundwater	River, stream, dam or lake	Other	The activity will not use water
-------------------------	-------------	-------------	----------------------------	-------	---------------------------------

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

Does the activity require a water use authorisation (general authorisation or water use license) from the Department of Water Affairs? 

YES	NO
-----	----

If YES, please provide proof that the application has been submitted to the Department of Water Affairs.

**14. ENERGY EFFICIENCY**

Describe the design measures, if any, which have been taken to ensure that the activity is energy efficient:

Most of the equipment and machinery used during construction is self-powered and does not require additional electricity. Energy will be used sparingly and according to a schedule implementing energy saving technology.

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

No other alternative energy sources were considered. If any such alternative arise, the Final BAR will be updated.

## SECTION B: SITE/AREA/PROPERTY DESCRIPTION

### Important notes:

- For linear activities (pipelines, etc) as well as activities that cover very large sites, it may be necessary to complete this section for each part of the site that has a significantly different environment. In such cases please complete copies of Section B and indicate the area, which is covered by each copy No. on the Site Plan.

Section B Copy No. (e.g. A):

A

- Paragraphs 1 - 6 below must be completed for each alternative.

- Has a specialist been consulted to assist with the completion of this section?

YES	NO
-----	----

If YES, please complete the form entitled "Details of specialist and declaration of interest" for each specialist thus appointed and attach it in Appendix I. All specialist reports must be contained in Appendix D.

**Property description/physical address:**

<b>Province</b>	Northern Cape Province
<b>District Municipality</b>	Frances Baard District Municipality
<b>Local Municipality</b>	Sol Plaatje Local Municipality
<b>Ward Number(s)</b>	20
<b>Farm name and number</b>	Kimberley
<b>Portion number</b>	ERF Number 42654
<b>SG Code</b>	C03700010004265400000

Where a large number of properties are involved (e.g. linear activities), please attach a full list to this application including the same information as indicated above.

**Current land-use zoning as per local municipality IDP/records:**

Institutional zone

In instances where there is more than one current land-use zoning, please attach a list of current land use zonings that also indicate which portions each use pertains to, to this application.

Is a change of land-use or a consent use application required?

YES	NO
-----	----

**1. GRADIENT OF THE SITE**

Indicate the general gradient of the site.

**Alternative S1:**

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

**Alternative S2 (if any):**

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

**Alternative S3 (if any):**

Flat	1:50 – 1:20	1:20 – 1:15	1:15 – 1:10	1:10 – 1:7,5	1:7,5 – 1:5	Steeper than 1:5
------	-------------	-------------	-------------	--------------	-------------	------------------

**2. LOCATION IN LANDSCAPE**

Indicate the landform(s) that best describes the site:

2.1 Ridgeline	<input type="checkbox"/>	2.4 Closed valley	<input type="checkbox"/>	2.7 Undulating plain / low hills	<input type="checkbox"/>
2.2 Plateau	<input type="checkbox"/>	2.5 Open valley	<input type="checkbox"/>	2.8 Dune	<input type="checkbox"/>
2.3 Side slope of hill/mountain	<input type="checkbox"/>	2.6 Plain	<input checked="" type="checkbox"/>	2.9 Seafront	<input type="checkbox"/>
2.10 At sea	<input type="checkbox"/>				

**3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**

Is the site(s) located on any of the following?

	Alternative S1:		Alternative S2 (if any):		Alternative S3 (if any):	
Shallow water table (less than 1.5m deep)	YES	NO	YES	NO	YES	NO
Dolomite, sinkhole or doline areas	YES	NO	YES	NO	YES	NO
Seasonally wet soils (often close to water bodies)	YES	NO	YES	NO	YES	NO
Unstable rocky slopes or steep slopes with loose soil	YES	NO	YES	NO	YES	NO
Dispersive soils (soils that dissolve in water)	YES	NO	YES	NO	YES	NO
Soils with high clay content (clay fraction more than 40%)	YES	NO	YES	NO	YES	NO
Any other unstable soil or geological feature	YES	NO	YES	NO	YES	NO
An area sensitive to erosion	YES	NO	YES	NO	YES	NO

If you are unsure about any of the above or if you are concerned that any of the above aspects may be an issue of concern in the application, an appropriate specialist should be appointed to assist in the completion of this section. Information in respect of the above will often be available as part of the project

information or at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by the Council for Geo Science may also be consulted.

#### 4. GROUND COVER

Indicate the types of groundcover present on the site. The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Natural veld – good condition <sup>E</sup>	Natural veld with scattered aliens <sup>E</sup>	Natural veld with heavy alien infestation <sup>E</sup>	Veld dominated by alien species <sup>E</sup>	Gardens
Sport field	Cultivated land	Paved surface	Building or other structure	Bare soil

If any of the boxes marked with an “E” is ticked, please consult an appropriate specialist to assist in the completion of this section if the environmental assessment practitioner doesn’t have the necessary expertise.

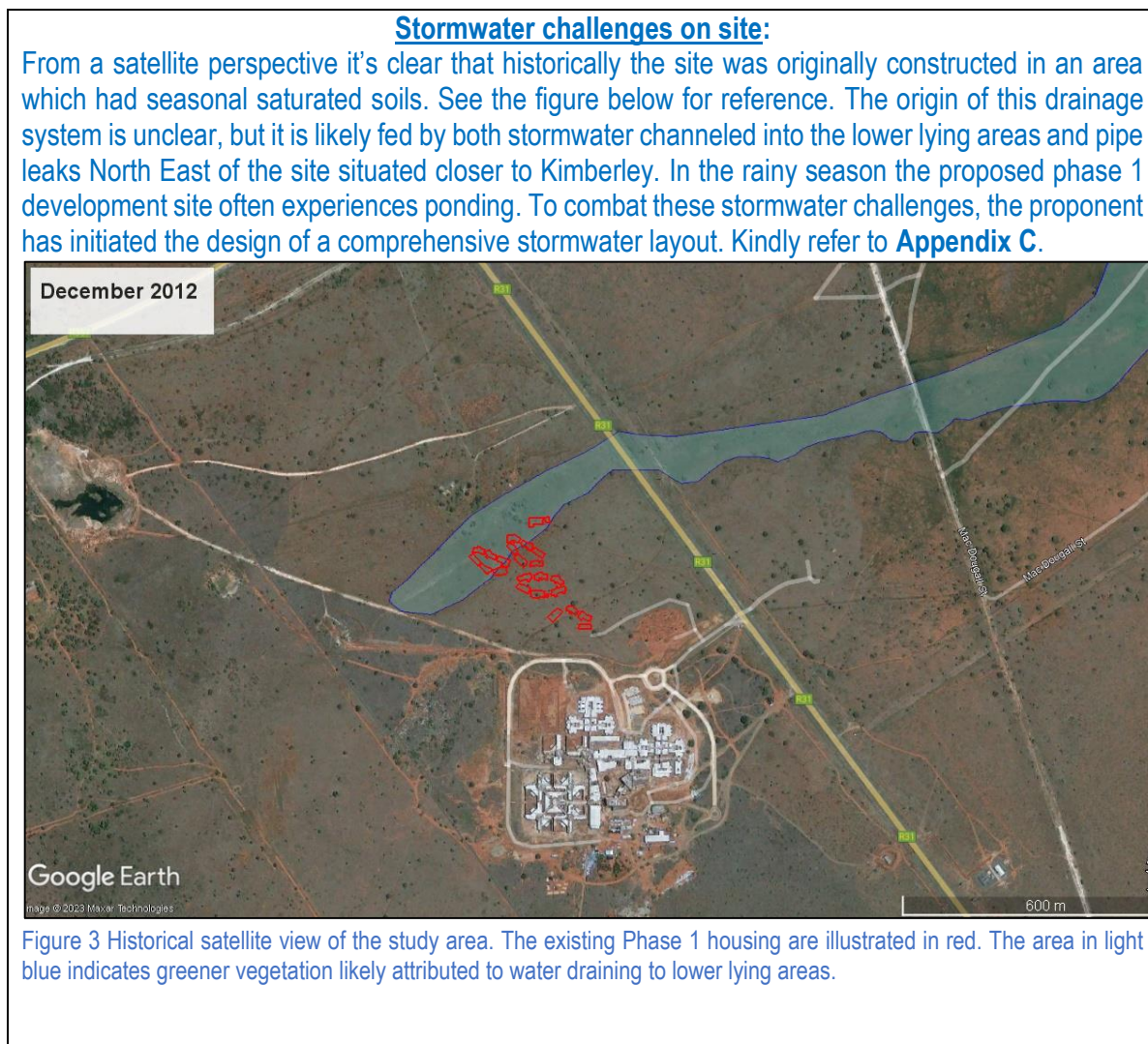
#### 5. SURFACE WATER

Indicate the surface water present on and or adjacent to the site and alternative sites?

Perennial River	YES	NO	UNSURE
Non-Perennial River	YES	NO	UNSURE
Permanent Wetland	YES	NO	UNSURE
Seasonal Wetland	YES	NO	UNSURE
Artificial Wetland	YES	NO	UNSURE
Estuarine / Lagoonal wetland	YES	NO	UNSURE



If any of the boxes marked YES or UNSURE is ticked, please provide a description of the relevant watercourse.



## 6. LAND USE CHARACTER OF SURROUNDING AREA

Indicate land uses and/or prominent features that currently occur within a 500m radius of the site and give description of how this influences the application or may be impacted upon by the application:

Natural area	Dam or reservoir	Polo fields
Low density residential	Hospital/medical centre	Filling station <sup>H</sup>
Medium density residential	School	Landfill or waste treatment site
High density residential	Tertiary education facility	Plantation
Informal residential	Church	Agriculture
Retail commercial & warehousing	Old age home	River, stream or wetland
Light industrial	Sewage treatment plant <sup>A</sup>	Nature conservation area

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Medium industrial <sup>AN</sup>	Train station or shunting yard <sup>N</sup>	Mountain, Koppie or ridge
Heavy industrial <sup>AN</sup>	Railway line <sup>N</sup>	Museum
Power station	Major road (4 lanes or more) <sup>N</sup>	Historical building
Office/consulting room	Airport <sup>N</sup>	Protected Area
Military or police base/station/compound	Harbour	Graveyard
Spoil heap or slimes dam <sup>A</sup>	Sport facilities	Archaeological site
Quarry, sand or borrow pit	Golf course	Other land uses (describe)

If any of the boxes marked with an "N" are ticked, how this impact will / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "An" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

If any of the boxes marked with an "H" are ticked, how will this impact / be impacted upon by the proposed activity? Specify and explain:

N/A

Does the proposed site (including any alternative sites) fall within any of the following:

Critical Biodiversity Area (as per provincial conservation plan)	YES	NO
Core area of a protected area?	YES	NO
Buffer area of a protected area?	YES	NO
Planned expansion area of an existing protected area?	YES	NO
Existing offset area associated with a previous Environmental Authorisation?	YES	NO
Buffer area of the SKA?	YES	NO

If the answer to any of these questions was YES, a map indicating the affected area must be included in Appendix A.

### 7. CULTURAL/HISTORICAL FEATURES

Are there any signs of culturally or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including Archaeological or paleontological sites, on or close (within 20m) to the site? If YES, explain:

YES

NO

Uncertain

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If uncertain, conduct a specialist investigation by a recognised specialist in the field (archaeology or palaeontology) to establish whether there is such a feature(s) present on or close to the site. Briefly explain the findings of the specialist:

The terrain has been severely degraded by previous industrial and commercial activities. There are no indications of prehistoric structures or rock engravings within the footprint area. There is also no evidence of informal graves or historical structures older than 60 years within the confines of the footprint. The field assessment indicates that the proposed development will primarily affect degraded topsoil's underlain by dolerite bedrock, which are not paleontologically significant. Very little possibility exists that objects of palaeontological significance may be uncovered during the course of excavation activities into possibly in situ Quaternary soils overlying the terrain. In accordance with the types and ranges of heritage resources as outlined in the National Heritage Resources Act (No 25 of 1999), there is no aboveground evidence of historical structures or material of cultural significance, graves or archaeological sites within the demarcated area. The site is assigned a heritage rating of General Protection C.

Will any building or structure older than 60 years be affected in any way?

YES	NO
-----	----

Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?

YES	NO
-----	----

If YES, please provide proof that this permit application has been submitted to SAHRA or the relevant provincial authority.

**8. SOCIO-ECONOMIC CHARACTER**

**a) Local Municipality**

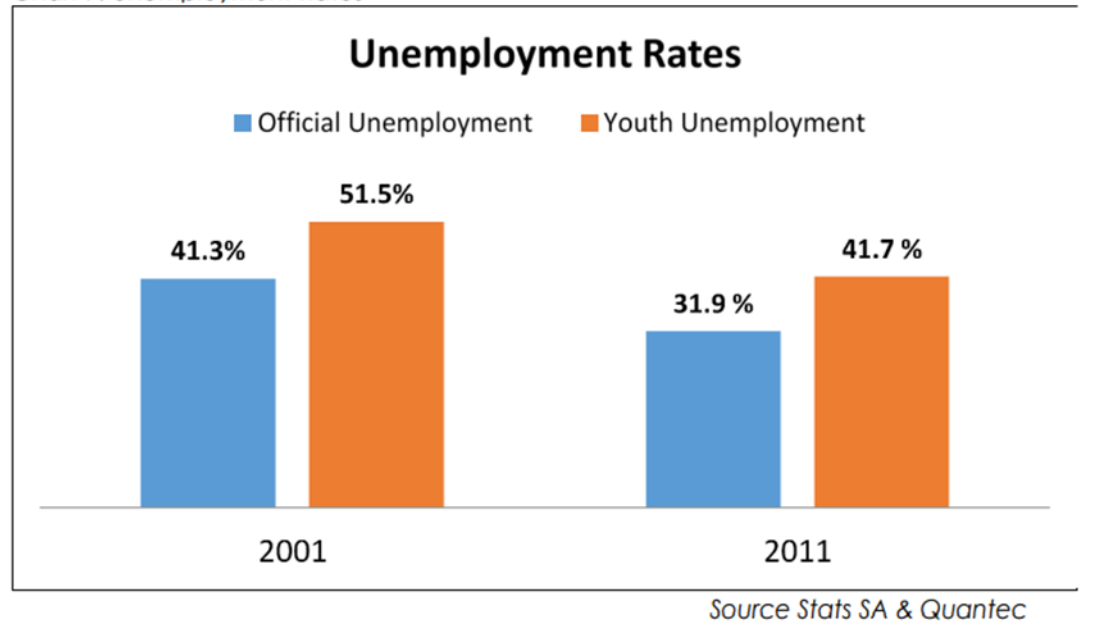
Please provide details on the socio-economic character of the local municipality in which the proposed site(s) are situated.

Level of unemployment:

The Sol Plaatje local municipality has an unemployment statistic of 31.9%. Please see more relevant information below:

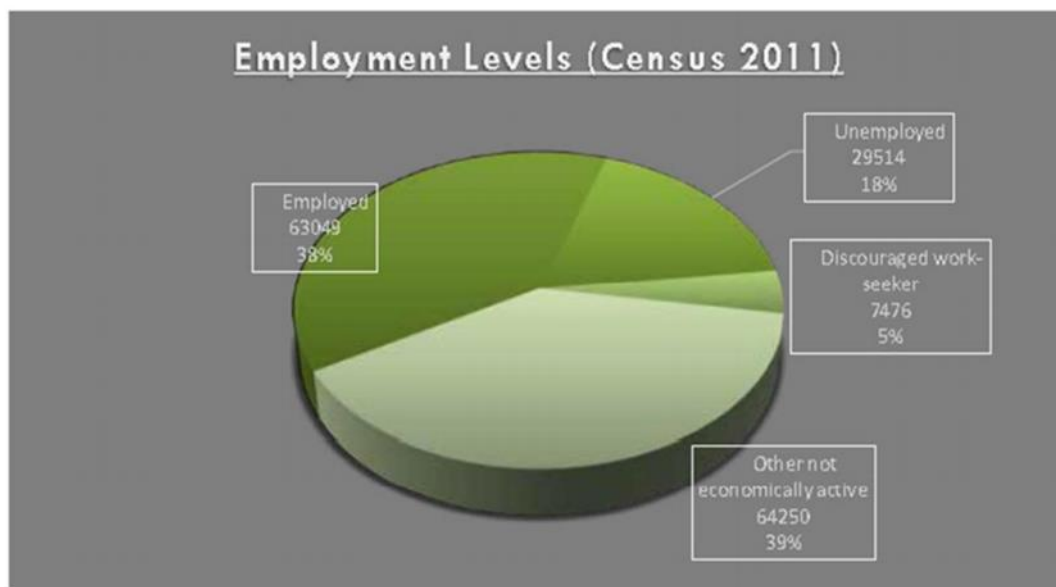
Of the economically active people in the municipality, 31.9% are unemployed (narrow definition of unemployment). 41.7% of the economically active youth (15 – 34 years) in the area are unemployed. This figure is compelling enough to direct a special focus on youth employment.

Chart 7: Unemployment Rates



**Unemployment levels**

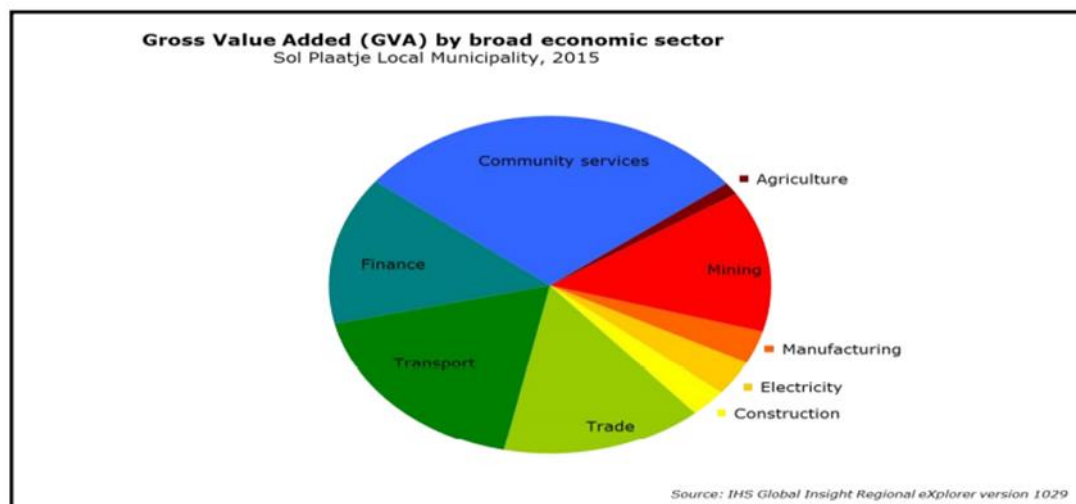
As per Census 2011, Sol Plaatje Local Municipality has an unemployment rate standing at 31,9% with the youth unemployment rate standing at 41,7%.



Economic profile of local municipality:

**ECONOMIC STATISTICS**

As per Census 2011, the economic activities consist of retailers and industries, as well as mining and farming. Agricultural land is mostly used for game, sheep and cattle farming, and cash crops such as lucerne, grapes, cotton and soybeans. Mining is still an integral part of the economy. Main Economic Sectors: Community services (33%), Finance (24%), Trade (14%), Mining (8%).

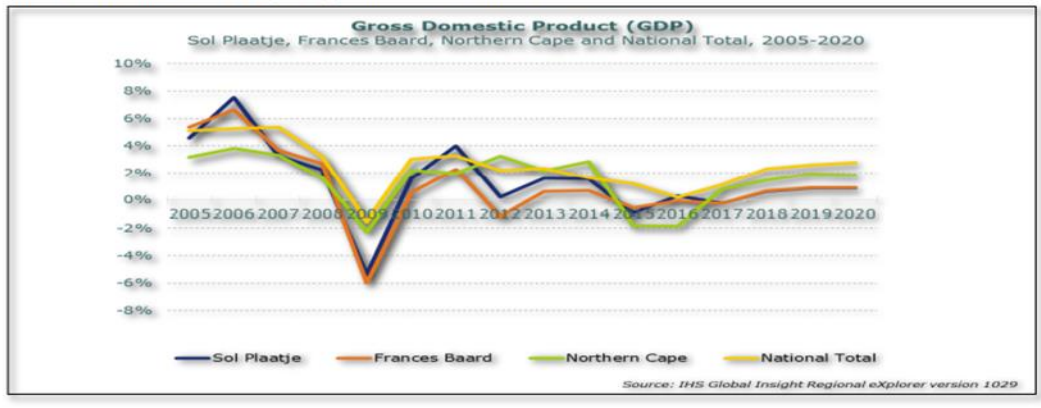




**Comparison to national context**

From the charts below it can be seen that when compared to the national economy of South Africa, Sol Plaatje Local municipality has a comparative advantage on community services and almost the same advantage on the transport industry. A slight advantage is also noted on financial services. However, when it comes to specifically manufacturing, Sol Plaatje has a significant comparative disadvantage relative to the country as a whole. In terms of trade, the quotient of Sol Plaatje is relatively similar to that of South Africa. Generally speaking, Sol Plaatje has a very narrow economy.

Gross Domestic Product (GDP) Forecast, 2005 - 2020



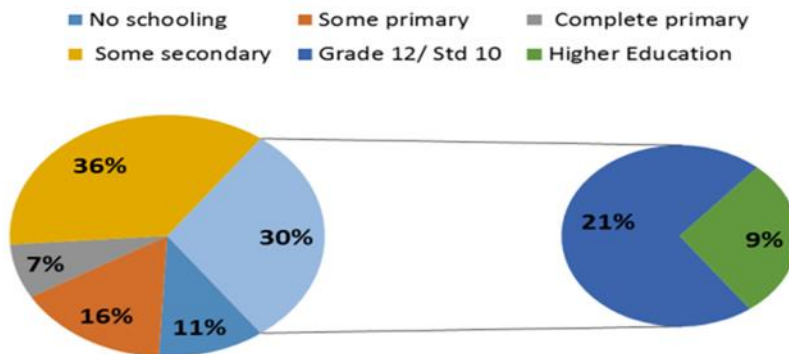
Level of education:

**Educational statistics**

According to stats SA, 2011, 30% have matric and higher education, while 10% indicate no schooling. The remaining 60% have some primary schooling and some secondary schooling. This will pose a serious problem for the future economic trajectory as skills will have to be built to suit the economic path and in the short-term skills will have to be brought in from skilled areas.

Chart 3: Labour Market and Education Statistics 2011 compared to 2001

**Education Levels of Population over 20 yrs**



Source Stats SA & Quantec

**b) Socio-economic value of the activity**

What is the expected capital value of the activity on completion?	Unknown at this point, but likely more than R300 000 000	
What is the expected yearly income that will be generated by or as a result of the activity?	Some income will be generated from student fees, but due to the development being government supported, it will be significantly low.	
Will the activity contribute to service infrastructure?	YES	NO
Is the activity a public amenity?	YES	NO
How many new employment opportunities will be created in the development and construction phase of the activity/ies?	Building contractors will have to be consulted in this regard.	
What is the expected value of the employment opportunities during the development and construction phase?	Building contractors will have to be consulted in this regard.	
What percentage of this will accrue to previously disadvantaged individuals?	Building contractors will have to be consulted in this regard	
How many permanent new employment opportunities will be created during the operational phase of the activity?	This development has the potential to generate approximately 50 permanent jobs	
What is the expected current value of the employment opportunities during the first 10 years?	The Developer will be consulted in this regard.	
What percentage of this will accrue to previously disadvantaged individuals?	100%	

\*\*\* Kindly note that the values and percentages listed are merely speculation and may not be a true representative of the actual economic value.

**9. BIODIVERSITY**

Please note: The Department may request specialist input/studies depending on the nature of the biodiversity occurring on the site and potential impact(s) of the proposed activity/ies. To assist with the identification of the biodiversity occurring on site and the ecosystem status consult <http://bgis.sanbi.org> or [BGIShelp@sanbi.org](mailto:BGIShelp@sanbi.org). Information is also available on compact disc (cd) from the Biodiversity-GIS Unit, Ph (021) 799 8698. This information may be updated from time to time and it is the applicant/ EAP's responsibility to ensure that the latest version is used. A map of the relevant biodiversity information (including an indication of the habitat conditions as per (b) below) and must be provided as an overlay map to the property/site plan as Appendix D to this report.

**a) Indicate the applicable biodiversity planning categories of all areas on site and indicate the reason(s) provided in the biodiversity plan for the selection of the specific area as part of the specific category)**

<b>Systematic Biodiversity Planning Category</b>	<b>If CBA or ESA, indicate the reason(s) for its selection in biodiversity plan</b>
--	---

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Critical Biodiversity Area (CBA)	Ecological Support Area (ESA)	Other Natural Area (ONA)	No Natural Area Remaining (NNR)	No CBA or ESA areas are located on the site. The site may be described as a severely degraded natural veld situated between entirely transformed areas due to construction as part of the original environmental authorization obtained for the Kimberley Mental Health Hospital.
----------------------------------	-------------------------------	--------------------------	---------------------------------	---

**b) Indicate and describe the habitat condition on site**

Habitat Condition	Percentage of habitat condition class (adding up to 100%)	Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practises, presence of quarries, grazing, harvesting regimes etc).
Natural	0%	No part of this site can be described of being in a natural condition.
Near Natural (includes areas with low to moderate level of alien invasive plants)	15%	Veld is severely degraded. The grass layer is in most areas heavily disturbed whilst the tree layer is in moderate condition.
Degraded (includes areas heavily invaded by alien plants)	75%	The veld is severely degraded by construction activities and heavily invaded by exotic species.
Transformed (includes cultivation, dams, urban, plantation, roads, etc)	10%	Large areas of the site have already been transformed either by levelling of ground surface for anticipated development and the ongoing construction of the first phase of student accommodation included into the already obtained environmental authorisation for the development of the Kimberley Mental Health Hospital.

**c) Complete the table to indicate:**

- (i) the type of vegetation, including its ecosystem status, present on the site; and
- (ii) whether an aquatic ecosystem is present on site.

Terrestrial Ecosystems		Aquatic Ecosystems						
Ecosystem threat status as per the National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	Critical	Wetland (including rivers, depressions, channelled and unchannelled wetlands, flats, seeps pans, and artificial wetlands)			Estuary		Coastline	
	Endangered							
	Vulnerable							
	Least Threatened							
	YES	NO	UNSURE	YES	NO	YES	NO	

- d) **Please provide a description of the vegetation type and/or aquatic ecosystem present on site, including any important biodiversity features/information identified on site (e.g. threatened species and special habitats)**

The site consists of vegetation associated with the Kimberley thornveld vegetation type (**See appendix A, Map 3**). The Kimberley thornveld vegetation type (SVk4) is declared as least threatened, with less than 2% of the targeted 16% conserved in conservation areas (Government Gazette no. 34809, 2011; Department of Environmental Affairs, 2016). No threatened species were located on the site; however, two protected species were logged, *Vachellia erioloba* and *Nerine laticoma*. It is recommended that these two species be incorporated in either the general layout or the horticultural design of the development. DFFE permits will have to be obtained to remove any *V. erioloba* trees. The necessary flora harvesting permits have to be obtained before transplanting *N. laticoma* affected by the proposed development. The transplant of these bulbs has to be overseen by a qualified individual specialist. A storm water channel runs down the north western boundary of the site. Relatively fast-moving water is flowing down this channel and has caused considerable channel erosion. The levee is made up of loose red sand and poses a significant erosion risk. A comprehensive storm water management plan will be attached to the final BAR.

## SECTION C: PUBLIC PARTICIPATION

### 1. ADVERTISEMENT AND NOTICE

<b>Publication name</b>	Noordkaap Bulletin	
<b>Date published</b>	17 June 2021	
<b>Site notice position</b>	<b>Latitude</b>	<b>Longitude</b>
	28°46'7.41"S	24°43'24.75"E
	28°46'10.26"S	24°43'26.52"E
	28°45'38.11"S	24°46'2.55"E
<b>Date placed</b>	01 June 2021	

Include proof of the placement of the relevant advertisements and notices in Appendix E1.

### 2. DETERMINATION OF APPROPRIATE MEASURES

Provide details of the measures taken to include all potential I&APs as required by Regulation 41(2)(e) and 41(6) of GN 733.

Key stakeholders (other than organs of state) identified in terms of Regulation 41(2)(b) of GN 733

<b>Title, Name and Surname</b>	<b>Affiliation/ key stakeholder status</b>	<b>Contact details (tel number or e-mail address)</b>
Mrs Grace Gama	Private	0736798412

Include proof that the key stakeholder received written notification of the proposed activities as Appendix E2. This proof may include any of the following:

- e-mail delivery reports;
- registered mail receipts;
- courier waybills;
- signed acknowledgements of receipt; and/or
- or any other proof as agreed upon by the competent authority.

### 3. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summary of main issues raised by I&APs	Summary of response from EAP
This is the draft Basic assessment report. Comments will be included in the Final, after the PPP has been completed.	N/A

### 4. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments received from I&APs and respond to each comment before the Draft BAR is submitted. The comments and responses must be captured in a comments and response report as prescribed in the EIA regulations and be attached to the Final BAR as Appendix E3.

### 5. AUTHORITY PARTICIPATION

Authorities and organs of state identified as key stakeholders:

Authority/Organ of State	Contact person (Title, Name and Surname)	Tel No.	Fax No.	e-mail	Postal address
Department: Agriculture, Land Reform and Rural Development	Mrs Monnapula Tswaile	053 802 5600		<a href="mailto:mtswaile@ncpg.gov.za">mtswaile@ncpg.gov.za</a>	224 du Toitspan Road Kimberley 8300
Northern Cape Department of Water & Sanitation	Mr G Van Dyk	(053) 836 7600		<a href="mailto:vandykg@dws.gov.za">vandykg@dws.gov.za</a>	28 Central Road Beaconsfield Kimberley 8300
Frances Baard District Municipality - MM	Ms Mamikie Bogatsu	053 838 0998		<a href="mailto:fatima.ruiters@fbdm.co.za">fatima.ruiters@fbdm.co.za</a>	51 Drakensberg Avenue, Carters Glen, Kimberley, 8300
Sol Plaatjie Local Municipality - Mayor	Mr SP Mabilo	053 830 6911		<a href="mailto:tkgantsi@solplaatje.org.za">tkgantsi@solplaatje.org.za</a>	Jan Smuts Boulevard, Kimberley, 8300
Sol Plaatjie Local Municipality - MM	Mr B Dhluwayo	053 830 6911		<a href="mailto:bdhluwayo@solplaatje.org.za">bdhluwayo@solplaatje.org.za</a>	Jan Smuts Boulevard,

## BASIC ASSESSMENT REPORT

					Kimberley, 8300
Ward 26 Councilor - Sol Plaatjie Local Municipality	Mr PJ Makhamba	072 263 3876		<a href="mailto:bonsilejmakhamba@gmail.com">bonsilejmakhamba@gmail.com</a>	Jan Smuts Boulevard, Kimberley, 8300

Include proof that the Authorities and Organs of State received written notification of the proposed activities as appendix E4.

In the case of renewable energy projects, Eskom and the SKA Project Office must be included in the list of Organs of State.

### 6. CONSULTATION WITH OTHER STAKEHOLDERS

Note that, for any activities (linear or other) where deviation from the public participation requirements may be appropriate, the person conducting the public participation process may deviate from the requirements of that sub-regulation to the extent and in the manner as may be agreed to by the competent authority.

Proof of any such agreement must be provided, where applicable. Application for any deviation from the regulations relating to the public participation process must be submitted prior to the commencement of the public participation process.

A list of registered I&APs must be included as appendix E5.

Copies of any correspondence and minutes of any meetings held must be included in Appendix E6.












## SECTION D: IMPACT ASSESSMENT
















The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014 and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts.

### 1. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN, CONSTRUCTION, OPERATIONAL, DECOMMISSIONING AND CLOSURE PHASES AS WELL AS PROPOSED MANAGEMENT OF IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES












Provide a summary and anticipated significance of the potential direct, indirect and cumulative impacts that are likely to occur as a result of the planning and design phase, construction phase, operational phase, decommissioning and closure phase, including impacts relating to the choice of site/activity/technology alternatives as well as the mitigation measures that may eliminate or reduce the potential impacts listed. This impact assessment must be applied to all the identified alternatives to the activities identified in Section A(2) of this report.

Activity	Impact summary	Significance	Proposed mitigation
<b>Alternative 1 (preferred alternative)</b>			
<b>Flora and Fauna</b>			
Clearance of vegetation	<b>Direct impacts:</b>	Low	<ul style="list-style-type: none"> <li> Only vegetation within the site can be removed.</li> <li> Keep vegetation removal to a minimum and remove only what is required.</li> <li> The construction area must be demarcated to prevent movement in private property and adjacent natural veld.</li> </ul>
	<b>Indirect impacts:</b>	Low	<ul style="list-style-type: none"> <li> Topsoil must be stockpiled and kept clean from alien vegetation. This topsoil must be used for rehabilitation purposes.</li> <li> Contain the natural environment and ensure the Environmental Management Plan is adhered to.</li> </ul>
	<b>Cumulative impacts:</b>	Low	<ul style="list-style-type: none"> <li> Protected species: <i>Nerine laticoma</i> and <i>Vachellia erioloba</i> should be used in the general or horticultural design as far as possible.</li> <li> DFFE licence should be obtained to remove <i>Vachellia erioloba</i> individuals</li> <li> Transplant permits should be obtained to transplant <i>N. laticoma</i> into a suitable natural habitat clear of significant disturbances or,</li> <li> <i>N. laticoma</i> individuals affected by development should be bagged and cared for until these individuals are transplanted into gardens.</li> </ul>













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Activity	Impact summary	Significance	Proposed mitigation
Loss of habitat and species diversity	<b>Direct impacts:</b>	Low	<ul style="list-style-type: none"> <li> Limit the amount of construction sites that are worked on simultaneously.</li> <li> Proper rehabilitation of construction sites with special attention given to watercourses.</li> <li> Consult an ecologist with regards to sustainable rehabilitation of the disturbed areas.</li> <li> Construction footprint to be demarcated as per the construction phase conditions outlined.</li> <li> Construction vehicles will be restricted to travel only on designated roadways to limit the ecological footprint of the proposed development.</li> </ul>
	<b>Indirect impacts:</b>	Low	<ul style="list-style-type: none"> <li> Rehabilitation measures must be implemented in areas where the soil surface was disturbed.</li> <li> Promoting the use of indigenous regional vegetation in landscaping.</li> </ul>
	<b>Cumulative impacts:</b>	Low	<ul style="list-style-type: none"> <li> No hunting or trapping of animals to be permitted</li> <li> No fauna or flora should be eradicated unnecessarily and should be discussed during the monthly toolbox talks.</li> <li> A specialist must be consulted to identify sensitive species, highly susceptible to disturbances caused by construction. If species like this are found on the construction footprint, a search-and-relocate must be implemented for them.</li> </ul>
Land transformation – Veldfire	<b>Direct impacts:</b>	Low	<ul style="list-style-type: none"> <li> The Developer will ensure that firefighting equipment is available onsite in the event that an accidental fire should break out.</li> <li> Construction workers will not be allowed to make fires on the site.</li> </ul>
	<b>Indirect impacts:</b>	Low	<ul style="list-style-type: none"> <li> Construction activities that generate heat or an open flame should be monitored and appropriate measure taken to prevent run away veld fires.</li> <li> A Fire Management Plan must be present on site.</li> </ul>
	<b>Cumulative impacts:</b>	Low	<ul style="list-style-type: none"> <li> The local fire station, landowner and neighboring landowners must be alerted about potential of causing a fire.</li> </ul>

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Activity	Impact summary	Significance	Proposed mitigation
Unauthorized vehicle movement	<b>Direct impacts:</b>	Low	 Vehicles must stay to existing gravel roads during any maintenance activities.  Road signs must be appropriately placed to inform vehicle drivers where designated roadways are.
	<b>Indirect impacts:</b>	Low	
	<b>Cumulative impacts:</b>	Low	
<b>Heritage</b>			
Artefacts and Fossils	<b>Direct impacts:</b>	Low	 The site is not archaeologically vulnerable, as it has been severely degraded by previous human disturbance.  If any archaeologically significant discovery occurs, the construction should halt until a qualified specialist mitigates the situation.
	<b>Indirect impacts:</b>	Low	
	<b>Cumulative impacts:</b>	Low	
<b>Noise and Air Quality</b>			
Generation of noise	<b>Direct impacts:</b>	Low-Moderate	 No loud music at any construction sites.  Vehicles must be maintained in such a manner as to not cause excessive noise when operating them.  Construction should take place between 07:00 and 17:00.  The speed limit will be 40km/h on all roads running through and accessing the construction area.  Equipment/ machinery to be used must comply with manufacturer's specifications acceptable noise levels.  Maintain a complaints and grievance register and act promptly to complaints regarding noise.  Ensure that college is adequately constructed to buffer noise coming from the facility.
	<b>Indirect impacts:</b>	Low	
	<b>Cumulative impacts:</b>	Low	

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Air quality	<b>Direct impacts:</b>	Low	<ul style="list-style-type: none"> <li> Confine vehicle movements on unpaved roads to demarcated areas only.</li> <li> Ensure that site drainage carries spillage of cement fines away from traffic movement zones.</li> <li> Set up water sprayers along haul roads to dampen dust and minimize dust loading to surrounding vegetation.</li> <li> Speed control for all roads to limit dust generation.</li> </ul>
	<b>Indirect impacts:</b>	Low	
	<b>Cumulative impacts:</b>	Low	
<b>Waste</b>			
Waste Generation	<b>Direct impacts:</b>	Low-Moderate	<ul style="list-style-type: none"> <li> All hazardous substances and stocks such as diesel, oils, detergents, etc., shall be stored in areas with impervious flooring such as concrete.</li> <li> Drip pans and other impervious surface shall be installed in such storage areas with a view to prevent soil and water pollution.</li> <li> Residues from machinery maintenance and other sources contaminated with hazardous waste should be stored in proper containers that avoid seepage to the ground.</li> <li> Adequate waste receptacles shall be made available and all waste shall be adequately stored so that it does not pose a pollution risk. General waste is to be disposed of through the municipal service. Any other waste will be disposed of through only licensed waste disposal facilities.</li> <li> Waste items that have a high potential to disperse through wind and water, such as plastic and cement bags, should be stored to prevent pollution in the site and surrounding area.</li> </ul>
	<b>Indirect impacts:</b>	Low	
	<b>Cumulative impacts:</b>	Low	
<b>No go option:</b>			
Activity will not proceed and the environment is left as it is. The impact of this project is assessed based on its contribution to the local community and promote rural	<b>Direct impacts:</b>	High	<ul style="list-style-type: none"> <li> If this project is identified as a no-go option, access to an educational institution and job opportunities will be lost to the local communities.</li> <li> On the other hand, this project can uplift professional nurses' quality education and training on which South Africa's health system is heavily dependent.</li> <li> Therefore, this project will also contribute towards the improvement of the healthcare system.</li> </ul>
	<b>Indirect impacts:</b>	Moderate	
	<b>Cumulative impacts:</b>	High	

development and will result in job creation, both permanent and temporary.			*** The No-Go alternative is not the preferred alternative.
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A complete impact assessment in terms of Regulation 19(3) of GN 733 must be included as Appendix F.




## 2. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that summarises the impact that the proposed activity and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

### Alternative A (preferred alternative)

The most significant impacts of the proposed Kimberley nursing college phase two (2) and student accommodation development during the planning, design, construction and operational phases are related to land transformation. i.e. impact on fauna, loss of floral species; loss of habitat, the visual impact associated with the clearing of vegetation; the construction of roads; increased levels of dust; and socio-economic impacts associated with a potential increase in petty crime associated with casual labour.

The primary findings of the above processes were that the proposed development of the Kimberley nursing college and student accommodation would probably result in:

-  No adverse environmental impacts of high significance;
-  Potential positive impacts due to access to institutional facilities, employment opportunities,
-  and healthcare professional education improvement.

Other less significant impacts include increased noise and traffic levels due to construction vehicles. The site specific loss of two protected species: *Vachellia erioloba* and *Nerine laticoma*. Appropriate mitigation measures can mitigate the direct impact of the loss of these species. Mitigation for the loss of the two species mentioned above includes preventing unnecessary clearance of land and vegetation and promoting these species into the development's design. All of these impacts can be adequately addressed by the implementation of suitable mitigation measures.

It is the opinion of the Environmental Management Group (PTY) Ltd that there are no environmental impacts that have been identified that will be detrimental to the environment to such an extent that the proposed development should be permitted and allowed. The removal of the two provincially protected species found on the site can be adequately mitigated. No other sensitive environmental

components or fatal environmental flaws were identified within the study area that warrants the refusal of environmental authorisation (EA) for this application.

**In conclusion, it is recommended and advised that this application receives favourable consideration, given that the overall social impact of this proposed development will be positive.**

**Alternative B**

**Alternative C**

**No-go alternative (compulsory)**

This option assumes that a conservative approach would ensure that the environment is not impacted upon any more than is currently the case. It is important to state that this assessment is informed by the current condition of the area. Should the Competent Authority decline the application, the 'No-Go' option will be followed and the status quo of the site will remain in the same degraded and un-preferred operational state.

**SECTION E. RECOMMENDATION OF PRACTITIONER**

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the environmental assessment practitioner)?

<b>YES</b>	<b>NO</b>
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If “NO”, indicate the aspects that should be assessed further as part of a Scoping and EIA process before a decision can be made (list the aspects that require further assessment).

<b>N/A</b>
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If “YES”, please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application.

<ul style="list-style-type: none"> <li> Protected species: <i>Nerine laticoma</i> and <i>Vachellia erioloba</i> should be used in the general or horticultural design as far as possible.</li> <li> A DFFE licence should be obtained to remove <i>Vachellia erioloba</i> affected by development.</li> <li> The relevant permit should be obtained to transplant <i>N. laticoma</i> into a suitable natural habitat clear of significant disturbances.</li> </ul>
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Is an EMPr attached?

<b>YES</b>	<b>NO</b>
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The EMPr must be attached as Appendix G.

The details of the EAP who compiled the BAR and the expertise of the EAP to perform the Basic Assessment process must be included as Appendix H.

If any specialist reports were used during the compilation of this BAR, please attach the declaration of interest for each specialist in Appendix I.

Any other information relevant to this application and not previously included must be attached in Appendix J.

**Sampie van Rooyen**

\_\_\_\_\_  
NAME OF EAP

11 May 2023

\_\_\_\_\_  
SIGNATURE OF EAP

\_\_\_\_\_  
DATE



**SECTION F: APPENDIXES**

The following appendixes must be attached:

Appendix A: Maps

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Specialist reports (including terms of reference)

Appendix E: Public Participation

Appendix F: Impact Assessment

Appendix G: Environmental Management Programme (EMPr)

Appendix H: Details of EAP and expertise

Appendix I: Specialist's declaration of interest

Appendix J: Additional Information