
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 08 December 2014. 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.
14. Two (2) colour hard copies and one (1) electronic copy of the report must be submitted to the competent authority.
15. Shape files (.shp) for maps must be included in the electronic copy of the report submitted to the competent authority.
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. PROJECT DESCRIPTION

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

The project
The project entails the connection of two power lines which is on either side of a railway line by means of an approximate 380 meter 66kV bypass power line.

Route Corridor
A 140m wide route corridor is being investigated (70m on both sides of the proposed bypass power line). This route corridor must be approved by the Department of Environmental Affairs, which will allow for slight deviations of the power line within the approved corridor. Please note that Eskom will however only register the required servitude within the route corridor and not the entire corridor. The approval of the route corridor should be included in the Environmental Authorisation.

Location
The study area is north of Wellington and close to the small town of Hermon, directly east of the R44 provincial road in the Western Cape.

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

The Environmental Impact Assessment Regulations which came into effect in December 2014 and amended in April 2017 applies.

<table>
<thead>
<tr>
<th>Listing Notice 1</th>
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</thead>
</table>
| **GN 983, Dec 2014, Number 11**  
The development of facilities or infrastructure for the transmission and distribution of electricity—  
(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts; or  
(ii) inside urban areas or industrial complexes with a capacity of 275 kilovolts or more

excluding the development of bypass infrastructure for the transmission and distribution of electricity where such bypass infrastructure is —  
(a) temporarily required to allow for maintenance of existing infrastructure;  
(b) 2 kilometres or shorter in length;  
(c) within an existing transmission line servitude; and  
(d) will be removed within 18 months of the commencement of development.  

A new 66kV bypass power line will be constructed.
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.

The identification of alternatives should be in line with the Integrated Environmental Assessment Guideline Series 11, published by the DEA in 2004. Should the alternatives include different locations and lay-outs, the co-ordinates of the different alternatives must be provided. 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

<table>
<thead>
<tr>
<th>Alternative 1 (Preferred Alternative)</th>
<th>Lat (DDMMSS)</th>
<th>Long (DDMMSS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alternative 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alternative 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td></td>
<td></td>
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</tbody>
</table>

In the case of linear activities:

<table>
<thead>
<tr>
<th>Alternative 1</th>
<th>Lat (DDMMSS)</th>
<th>Long (DDMMSS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting point of the activity</td>
<td>33° 25’ 49.08” S</td>
<td>18° 58’ 33.97” E</td>
</tr>
<tr>
<td>Middle/Additional point of the activity</td>
<td>33° 25’ 53.02” S</td>
<td>18° 58’ 38.83” E</td>
</tr>
<tr>
<td>End point of the activity</td>
<td>33° 25’ 56.10” S</td>
<td>18° 58’ 41.49” E</td>
</tr>
</tbody>
</table>
Alternative 2
- Starting point of the activity
- Middle/Additional point of the activity
- End point of the activity

Alternative 3
- 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.

**BACKGROUND TO THE PROJECT**

The Gouda 135.2MW Windfarm was announced as a preferred bidder in 2012. Their grid connection was going to be with a 132kV line from the LaBonne Substation to the Windmill Substation. As the condition and capacity of Eskom’s existing 66kV lines was not favourable at that time, Eskom negotiated with the Independent Power Producer (IPP) to build a double circuit line: the 132kV line will be used by the IPP and the 66kV line will be operated by Eskom. Eskom also needed to refurbish the Gouda substation and had already initiated a project to rebuild it on an adjacent site called Nuwekloof. The windfarm’s substation, LaBonne is ±5km from Gouda/Nuwekloof substation.

The full scope could not be implemented as the Nuwekloof Substation was not available in time for the commissioning of the LaBonne 132kV line for the IPP. The scope that was not completed was to connect one circuit of the new line into Dagbreek and Nuwekloof substations.

The current construction contract does not include tying-in the new 66kV line into Gouda/Nuwekloof and Dagbreek. If the old Dagbreek-Gouda line is turned into Nuwekloof now, more work will be required in future to connect the new line. This is because 66kV feeder bay swops will be required due to the line crossing. Practically, this will require a full substation outage and likely cost at least R2m.

Carrying on using the old 66kV line could impact network performance due to line condition. It also limits the transfer capabilities on the 66kV network between Gouda, Moorreesburg, Romansrivier and Windmill under contingency.

Costly rework at a later stage will be avoided if the Dagbreek Bypass which will connect the Dagbreek and Windmill – Labonne power lines are now constructed.
SITE DESCRIPTION

The site is adjacent to the R44 provincial road and runs across ploughed / fallow agricultural fields. The line will cross a railway track. It lies north of Wellington and close to the small town of Hermon.
CONSIDERATION OF ALTERNATIVES

- The layout of the route close to existing powerlines of similar nature is a logical route and is the shortest possible route which is cost effective and will result in the least visual intrusion in an already disturbed micro environment. From this perspective it would therefore serve no purpose to consider an additional layout/route.
- The only alternative that could potentially have been considered is the pylon structure to use. However, the Eskom Planning Engineers can only confirm the final pylon structure during the design phase – this will be based on technical considerations. All indications are that similar pylons (monopole steel structures) would be utilised.
- The site does not reflect any environmental sensitivities which could influence viable alternatives.
- The scale of the project is relatively small (±380m of power line); therefore insignificant in context with the macro area.

Based on the above, it is the EAP’s recommendation that no additional alternatives, apart from the No Go Alternative will be considered during this application.

Further to the above, it was confirmed by the ecologist that the impact on the fauna & flora will be negligible before and after mitigation. There is no surface water within the immediate vicinity of the site and no impacts on heritage resources are anticipated.

This Dagbreek Bypass project is of a very small scale and the associated impacts are minimal and very easily mitigatable.

<table>
<thead>
<tr>
<th>b) Lay-out alternatives</th>
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</thead>
<tbody>
<tr>
<td><strong>Alternative 1 (preferred alternative)</strong></td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Lat (DDMMSS)</td>
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<tr>
<td>Alternative 2</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Lat (DDMMSS)</td>
</tr>
<tr>
<td>Alternative 3</td>
<td></td>
</tr>
<tr>
<td>Description</td>
<td>Lat (DDMMSS)</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>c) Technology alternatives</th>
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</thead>
<tbody>
<tr>
<td>Alternative 1 (preferred alternative)</td>
<td></td>
</tr>
<tr>
<td>Alternative 2</td>
<td></td>
</tr>
<tr>
<td>Alternative 3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>d) Other alternatives (e.g. scheduling, demand, input, scale and design alternatives)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative 1 (preferred alternative)</td>
<td></td>
</tr>
</tbody>
</table>
e) No-go alternative

The Gouda 135.2MW Windfarm was announced as a preferred bidder in 2012. The grid connection was going to be with a 132kV line from the LaBonne Substation to the Windmill Substation. As the condition and capacity of Eskom’s existing 66kV lines was not favourable at that time, Eskom negotiated with the Independent Power Producer (IPP) to build a double circuit line: the 132kV line will be used by the IPP and the 66kV line will be operated by Eskom. Eskom also needed to refurbish the Gouda substation and had already initiated a project to rebuild it on an adjacent site called Nuwekloof. The windfarm’s substation, LaBonne is ±5km from Gouda/Nuwekloof substation.

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Carrying on using the old 66kV line could impact network performance due to line condition. It also limits the transfer capabilities on the 66kV network between Gouda, Moorreesburg, Romansrivier and Windmill under contingency.

Costly rework at a later stage will be avoided if the Dagbreek Bypass which will connect the Dagbreek and Windmill – Labonne power lines are now constructed.

It is clear that if the status quo remains, Eskom will have to carry considerable costs to provide appropriate transfer capabilities on the 66kV network between Gouda, Moorreesburg, Romansrivier and Windmill. The maintaining of the status quo, in other words the application of the no-go option, is definitely not recommended for this project.

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):

<table>
<thead>
<tr>
<th>Alternative:</th>
<th>Size of the activity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Alternative A1(^1) (Preferred Alternative)</td>
<td>± 380 meters</td>
</tr>
</tbody>
</table>

\(^1\) “Alternative A...” refer to activity, process, technology or other alternatives.
Site Alternative A2
Alternative A3 (if any) m²

or, for linear activities:

Alternative: Length of the activity Km
Alternative 1 Km
Alternative 2 Km
Alternative 3 Km

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

Alternative: Size of the site/servitude:
Site Alternative 1 The servitude width will be 31 meters
Site Alternative 2
Alternative 3

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 m

Describe the type of access road planned:

Access to the site will be obtained from an existing gate on the R44 and a temporary access road of approximately 300m under the line will be required during the construction period only.

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 1km radius of the site or alternative sites; and
- a north arrow;
- a legend; and
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):

<table>
<thead>
<tr>
<th>1. Is the activity permitted in terms of the property’s existing land use rights?</th>
<th>YES</th>
<th>NO</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>A servitude will be registered along the power line route. The servitude width will be 31m.</td>
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</table>

<table>
<thead>
<tr>
<th>2. Will the activity be in line with the following?</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Provincial Spatial Development Framework (PSDF)</td>
</tr>
<tr>
<td>YES</td>
</tr>
<tr>
<td>The Western Cape PSDF has a set of objectives which aims to guide development to be sustainable, thereby ensuring that development follows the principles of the ‘triple bottom line’, namely Ecological integrity (health of the Planet), Social equity (situation of the People) and Economic efficiency (attainment of Prosperity).</td>
</tr>
<tr>
<td>It is a widely accepted fact that the provision of reliable electricity has a positive impact on the social life of people as well as the economy of the region to which the electricity is provided.</td>
</tr>
<tr>
<td>The proposed project will not impact on the natural or heritage resources of the area and the mitigation measures as proposed in the Environmental Management Plan will further ensure the ecological integrity of the proposed development.</td>
</tr>
<tr>
<td>This Eskom project is therefore in support of the ‘triple bottom line’ as advocated in the Western Cape PSDF.</td>
</tr>
<tr>
<td>(b) Urban edge / Edge of Built environment for the area</td>
</tr>
<tr>
<td>YES</td>
</tr>
<tr>
<td>Not applicable</td>
</tr>
<tr>
<td>(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?).</td>
</tr>
<tr>
<td>YES</td>
</tr>
<tr>
<td>The Final Drakenstein Municipality Integrated Development Plan (IDP) 2013 – 2018 states that the main energy source for the lighting of households is the usage of electricity. Electricity usage by households increased from 40,307 (2001) to 56,799 (2011). The use of paraffin and candles decreased significantly, while the use of solar lighting increased. More households within Drakenstein Municipality have access to electricity.</td>
</tr>
<tr>
<td>Eskom is the primary bulk provider of electricity in Drakenstein. Approximately 90% of households have access to electricity. Additional bulk capacity is required in most areas.</td>
</tr>
<tr>
<td>Investing in infrastructure will encourage growth by ensuring the physical supporting capacity for people to build opportunities.</td>
</tr>
<tr>
<td>The IDP further states that a concerted focus to take care of the natural environment is required. It is important to ensure that future generations are able to enjoy a clean and safe environment, in which biodiversity is conserved and tourism and recreational opportunities are maximised.</td>
</tr>
</tbody>
</table>
The Dagbreek Bypass Project as proposed is in line with the improvement of electrical infrastructure whilst ensuring the protection of the biophysical environment.

**Drakenstein Spatial Development Framework, 2015 - 2035**

The existing Paarl electricity networks do not have spare capacity to support additional new development. The limited availability of infrastructure is limiting development of land within the urban edge. Limitations in the capacity of the bulk infrastructure networks of the municipality will impact on the time frames for development of land parcels.

The Dagbreek Bypass project will assist in ensuring a wider and more reliable electricity network within the Drakenstein Municipality.

<table>
<thead>
<tr>
<th>(d) Approved Structure Plan of the Municipality</th>
<th>YES</th>
<th>NO</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Structure Plan for the City of Cape Town is not available / does not exist.</td>
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</table>

<table>
<thead>
<tr>
<th>(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?)</th>
<th>YES</th>
<th>NO</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Environmental Management Framework: Cape Winelands District Municipality, May 2011 states that Cape Winelands District Municipality (CWDM) is located in both the Fynbos and Succulent Karoo regions and has a very high number of different plants and animals (high biodiversity), many of which only occur in the CWDM or small parts of it and nowhere else.</td>
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<tr>
<td>The following are, amongst other a threat to biodiversity in the study area:</td>
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<tr>
<td>• Inappropriate development which contribute to land degradation and the gradual deterioration of biodiversity and ecosystem services in the study area.</td>
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<tr>
<td>The Dagbreek Bypass development is a very small development within cultivated / fallow agricultural lands and will not impact on sensitive areas within the CWDM.</td>
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<tr>
<td>Furthermore, the development as proposed takes due cognisance of all mitigation measures included in the Environmental Management Plan, which will further minimise impact on the natural environment to acceptable levels.</td>
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</table>

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<thead>
<tr>
<th>(f) Any other Plans (e.g. Guide Plan)</th>
<th>YES</th>
<th>NO</th>
<th>Please explain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unknown</td>
<td></td>
<td></td>
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</tbody>
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<table>
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<tr>
<th>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)?</th>
<th>YES</th>
<th>NO</th>
<th>Please explain</th>
</tr>
</thead>
</table>
The proposed project assists in providing the area with a long term solution to accommodate the expected increase in electricity demand. The economic sector as well as local communities (distribution of electricity by the municipalities) will benefit from this project. The project will strengthen the electricity network; thereby ensuring less dips and power failures.

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.)

| YES | NO | Please explain |

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.)

| YES | NO | Please explain |

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.)

| YES | NO | Please explain |

7. Is this project part of a national programme to address an issue of national concern or importance?

| YES | NO | Please explain |

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.)

| YES | NO | Please explain |

All impacts can be mitigated to acceptable levels and this activity will not impact negatively on the current landuse along the route.

9. Is the development the best practicable environmental option for this land/site?

| YES | NO | Please explain |

All impacts can be mitigated to acceptable levels and this activity will not impact negatively on the current landuse along the route.
10. Will the benefits of the proposed land use/development outweigh the negative impacts of it?  
   YES  NO  Please explain

The benefits of a reliable electrical supply network combined with the fact that negative impacts can be mitigated to acceptable levels confirms that the benefits of this project outweigh the minimal negative impacts thereof.

11. Will the proposed land use/development set a precedent for similar activities in the area (local municipality)?  
   YES  NO  Please explain

Existing electrical infrastructure such as power lines always has the potential for future upgrade and or construction of additional components to the facility and powerlines.

12. Will any person’s rights be negatively affected by the proposed activity/ies?  
   YES  NO  Please explain

No person’s rights would be negatively affected by the proposed activity. A thorough public participation programme was conducted and issues raised by interested & affected parties are satisfactorily addressed.

13. Will the proposed activity/ies compromise the “urban edge” as defined by the local municipality?  
   YES  NO  Please explain

The activity is irrelevant to the urban edge.

14. Will the proposed activity/ies contribute to any of the 17 Strategic Integrated Projects (SIPS)?  
   YES  NO  Please explain

This project contributes to a more reliable electrical network and is therefore in support of “SIP 10: Electricity Transmission and Distribution for all - Expand the transmission and distribution network to address historical imbalances, provide access to electricity for all and support economic development. Align the 10-year transmission plan, the services backlog, the national broadband rollout and the freight rail line development to leverage off regulatory approvals, supply chain and project development capacity.”

15. What will the benefits be to society in general and to the local communities?  
   Please explain

A reliable electrical distribution network has well-known economic and social benefits and positive impacts to which this project will ultimately contribute.

16. Any other need and desirability considerations related to the proposed activity?  
   Please explain

An important consideration of the project is to ensure that the proposed solution to enhance the network does not have a negative impact on the environment. Mitigation measures as proposed in this report will ensure the protection of the environment.

17. How does the project fit into the National Development Plan for 2030?  
   Please explain

The National Development Plan aims to eliminate poverty and reduce inequality by 2030. South Africa can realise these goals by drawing on the energies of its people, growing an inclusive economy, building capabilities, enhancing the capacity of the state, and promoting leadership and partnerships throughout society.
The Commission’s Diagnostic Report, June 2011 set out South Africa’s achievements and shortcomings since 1994. It identified a failure to implement policies and an absence of broad partnerships as the main reasons for slow progress, and set out nine primary challenges of which the following is relevant to this project: “Infrastructure is poorly located, inadequate and under-maintained”. Given the complexity of national development, the plan sets out six interlinked priorities. Relevant to this project is bringing about faster economic growth.

The National Development Plan makes a firm commitment to achieving a minimum standard of living. Elements of a decent standard of living include the following relevant to this project:

- A more efficient and competitive infrastructure.
- Infrastructure to facilitate economic activity that is conducive to growth and job creation.

An approach will be developed to strengthen key services such as commercial transport, energy, telecommunications and water, while ensuring their long-term affordability and sustainability.

Economic infrastructure: The proportion of people with access to the electricity grid should rise to at least 90 percent by 2030, with non-grid options available for the rest.

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

Current procedures and/or organisational structures are not necessarily achieving integrated decision-making and/or co-operative governance and, as a result, there is a failure to properly achieve the objectives of IEM as set out in Section 23 of NEMA. EIA’s however often focus on the immediate harm a project will cause rather than any benefits it might create in the long term to sustainable development.

The stated objectives of Section 23 are to ensure integrated decision-making and co-operative governance so that NEMA’s principles and the general objectives for integrated environmental management of activities can be achieved. The goals are 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.

For this project the following actions were taken to reach the general objectives of Integrated Environmental Management as set out in Section 23 of NEMA:
a) Applicable environmental, economic and social aspects have been assessed, thereby ensuring an integrated approach in order to balance the needs of all whom would be affected by this development.
b) Impacts have been described and assessed elsewhere in this report. Mitigation measures have been supplied in order to ensure that all identified impacts are mitigated to acceptable levels. Alternatives have been thoroughly assessed and the best possible solution represents this development proposal.
c) The development proposal has to be evaluated and approved by DEA and no construction may commence prior to the issuing of the Environmental Authorisation.
d) The procedures which were followed during the public participation programme were based on the NEMA EIA Regulations which came into effect on 14 December 2015.
e) DEA will take all information as represented in this report into consideration and may request further information should they feel that further studies/information is required before an informed decision can be made.
f) The mitigation measures as supplied in this report together with the measures as per the Environmental Management Programme are deemed to be the best way to manage anticipated impacts.

By providing electricity whilst not impacting negatively on the environment, the project would contribute to a sustainable environment.

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

Chapter 2 of NEMA provides a number of principles that decision-makers have to consider when making decisions that may affect the environment, therefore, when a Competent Authority considers granting or refusing environmental authorisation based on an Environmental Impact Assessment, these principles must be taken into account.

The NEMA principles with which this application conforms are described as follows —
1. 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.
2. Development must be socially, environmentally and economically sustainable.
3. Sustainable development requires the consideration of all relevant factors.

The social, economic and environmental impacts of activities, including disadvantages and benefits, were considered, assessed and evaluated, and informed decision-making by the authority is hereby made possible.

11. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations, if applicable:
Title of legislation, policy or guideline | Applicability to the project | Administering authority | Date
---|---|---|---
National Environmental Management Act (Act 107 of 1998), as amended | Environmental Authorisation is required | Department of Environmental Affairs |  
National Heritage Resources Act (25 of 1999) | Comment is required | Heritage Western Cape |  
National Water Act (Act 36 of 1998) | Authorisation is not required | Department of Water Affairs |  
Section 7(1) and 15(1) of the National Forests Act of 1998 (Act 84 of 1998) | No protected trees will be removed Authorisation is not required | Department of Agriculture |  
Environment Conservation Act (Act 73 of 1989) | Authorisation is not required | Department of Environmental Affairs |  
National Environmental Management: Biodiversity Act (Act 10 of 2004) | Authorisation is not required | Department of Environmental Affairs |  
National Environmental Management: Biodiversity Act (Act 10 of 2004): Threatened & Protected Species Regulations | Authorisation is not required | Department of Environmental Affairs, Forestry & Fisheries for permit applications |  
National Spatial Biodiversity Assessment (2004) | Authorisation is not required | Department of Environmental Affairs |  
National Biodiversity Strategy Action Plan | Authorisation is not required | Department of Environmental Affairs |  
Conservation of Agricultural Resources Act (43 of 1983) | Authorisation is not required | Department of Agriculture |  
Endangered and Rare Species of Fauna and Flora (AN 1643 February 1984) | Authorisation is not required | Lists endangered species in terms of the Nature Conservation Ordinance, 1983 (Ordinance 12 of 1983) |  

12. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?
If YES, what estimated quantity will be produced per month?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undetermined (minimal waste will be generated for the construction of the ±380m bypass power line)</td>
<td></td>
</tr>
</tbody>
</table>

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

**General construction waste**
- Unusable waste will be disposed of at registered waste disposal sites according to the applicable waste classification.
- Steel (ferrous and non-ferrous) and aluminium will be recovered and sold as scrap for recycling.
- Refuse bags will be supplied to construction personnel for dumping of household waste. Bins with lids will be provided at construction camps for household waste.
Where will the construction solid waste be disposed of (describe)?

- It will be transported off site by the contractor and returned to Eskom stores where scrap will be handed over to buyers. Any waste that cannot be recycled will be transported to appropriate registered waste disposal sites.
- General household waste generated by the construction team will be removed by the relevant contractor to a registered waste disposal site / municipal waste transfer station.

For all waste that is disposed of, Eskom shall obtain waste manifests and disposal certificates, which shall be recorded and reported to the ECO on a monthly basis.

Will the activity produce solid waste during its operational phase? YES NO

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

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

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

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

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? m³

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:

<table>
<thead>
<tr>
<th>Facility name:</th>
<th>Contact person:</th>
<th>Postal address:</th>
<th>Postal code:</th>
<th>Telephone:</th>
<th>Fax:</th>
<th>Cell:</th>
</tr>
</thead>
</table>

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


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:


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:

No permanent noise pollution will occur as a result of the proposed activity. Limited noise will however occur as a result of construction activities during the construction phase. Eskom shall provide all necessary equipment with standard silencers and maintain silencer units on vehicles where required. Equipment must always be in good working order to minimise unnecessary noise levels.

Studies undertaken on behalf of Eskom confirmed that calculations of electric and magnetic field levels created by overhead powerlines / substations where the public may be exposed are well within the ICNIRP guidelines. Note that ICNIRP refers to Non-ionising Radiation Protection which receives world-wide support and is endorsed by the Department of Health in South Africa.
13. **WATER USE**

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

<table>
<thead>
<tr>
<th>Municipal (Construction)</th>
<th>Water board</th>
<th>Groundwater</th>
<th>River, stream, dam or lake</th>
<th>Other</th>
<th>The activity will not use water (Operation)</th>
</tr>
</thead>
</table>

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:

<table>
<thead>
<tr>
<th>litres</th>
</tr>
</thead>
</table>

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

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:

**Not applicable**

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

**Not applicable**
SECTION B: SITE/AREA/PROPERTY DESCRIPTION

Important notes:
1. 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):

2. Paragraphs 1 - 6 below must be completed for each alternative.
3. 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.

<table>
<thead>
<tr>
<th>Property description/physical address:</th>
<th>Province</th>
<th>Western Cape</th>
</tr>
</thead>
<tbody>
<tr>
<td>District Municipality</td>
<td></td>
<td>Cape Winelands District Municipality</td>
</tr>
<tr>
<td>Local Municipality</td>
<td></td>
<td>Drakenstein Local Municipality</td>
</tr>
<tr>
<td>Ward Number(s)</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>Farm name and number</td>
<td></td>
<td>Farm Rondeheuwel 25</td>
</tr>
<tr>
<td>Portion number</td>
<td></td>
<td>Portion 38</td>
</tr>
<tr>
<td>SG Code</td>
<td></td>
<td>C055 0000 00000025 00038</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Current land-use zoning as per local municipality IDP/records:</th>
<th>Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>LANDOWNER CONSENT</th>
<th>YES  NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landowner consent is required before Eskom can register a servitude for the distribution of electricity across the relevant property. At this stage of the EIA process the landowner had been communicated with and concerns raised were satisfactorily addressed. As soon as Environmental Authorisation is obtained, the negotiator on behalf of Eskom will have option documents signed and he/she will appoint independent land valuators to determine the compensation amount relevant to the property. A negotiation process will then take place between Eskom and the landowners after which the servitudes will be registered on the relevant property deeds.</td>
<td></td>
</tr>
</tbody>
</table>
1. **GRADIENT OF THE SITE**
Indicate the general gradient of the site.

**Alternative S1:**

|------|-------------|-------------|-------------|-------------|-------------|-----------------|

**Alternative S2:**

|------|-------------|-------------|-------------|-------------|-------------|-----------------|

**Alternative S3 (if any):**

|------|-------------|-------------|-------------|-------------|-------------|-----------------|

2. **LOCATION IN LANDSCAPE**
Indicate the landform(s) that best describes the site:

- 2.1 Ridgeline
- 2.2 Plateau
- 2.3 Side slope of hill/mountain
- 2.4 Closed valley
- 2.5 Open valley
- 2.6 Plain
- 2.7 Undulating plain / low hills
- 2.8 Dune
- 2.9 Seafront
- 2.10 At sea

3. **GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE**
Is the site(s) located on any of the following?

<table>
<thead>
<tr>
<th>Alternative S1:</th>
<th>Alternative S2 (if any):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shallow water table (less than 1.5m deep)</td>
<td>YES</td>
</tr>
<tr>
<td>Dolomite, sinkhole or doline areas</td>
<td>YES</td>
</tr>
<tr>
<td>Seasonally wet soils (often close to water bodies)</td>
<td>YES</td>
</tr>
<tr>
<td>Unstable rocky slopes or steep slopes with loose soil</td>
<td>YES</td>
</tr>
<tr>
<td>Dispersive soils (soils that dissolve in water)</td>
<td>YES</td>
</tr>
<tr>
<td>Soils with high clay content (clay fraction more than 40%)</td>
<td>YES</td>
</tr>
<tr>
<td>Any other unstable soil or geological feature</td>
<td>YES</td>
</tr>
<tr>
<td>An area sensitive to erosion</td>
<td>YES</td>
</tr>
</tbody>
</table>

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. **GROUNDCOVER**

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).

<table>
<thead>
<tr>
<th>Natural veld - good condition</th>
<th>Natural veld with scattered aliens</th>
<th>Natural veld with heavy alien infestation</th>
<th>Veld dominated by alien species</th>
<th>Gardens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sport field</td>
<td>Cultivated land</td>
<td>Paved surface</td>
<td>Building or other structure</td>
<td>Bare soil</td>
</tr>
</tbody>
</table>

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?

<table>
<thead>
<tr>
<th>Perennial River</th>
<th>YES</th>
<th>NO</th>
<th>UNSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Perennial River</td>
<td>YES</td>
<td>NO</td>
<td>UNSURE</td>
</tr>
<tr>
<td>Permanent Wetland</td>
<td>YES</td>
<td>NO</td>
<td>UNSURE</td>
</tr>
<tr>
<td>Seasonal Wetland</td>
<td>YES</td>
<td>NO</td>
<td>UNSURE</td>
</tr>
<tr>
<td>Artificial Wetland</td>
<td>YES</td>
<td>NO</td>
<td>UNSURE</td>
</tr>
<tr>
<td>Estuarine / Lagoonal wetland</td>
<td>YES</td>
<td>NO</td>
<td>UNSURE</td>
</tr>
</tbody>
</table>

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 |
| 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 | Nature conservation area |
| Medium industrial | Train station or shunting yard | Mountain, koppie or ridge |
| Heavy industrial | Railway line | Museum |
| Power station | Major road (4 lanes or more) | Historical building |
| Office/consulting room | Airport | Protected Area |
| Military or police base/station/compound | Harbour | Graveyard |
| Spoil heap or slimes dam | 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 will this impact / be impacted upon by the proposed activity? Specify and explain:

Standard procedures and stipulations of Transnet Freight Rail (TFR), an Operating Division of Transnet SOC Limited must be followed for the crossing of the railway line.

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:

Not applicable

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:

Not applicable

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.

The Drakenstein Conservation Plan, indicating the CBAs and ESAs within the study area is attached under Appendix A.

A very small section of the proposed bypass line falls within a CBA. The entire study area is however cultivated / fallow agricultural lands and no sensitive fauna or flora was identified on site.

This Eskom project will not impact negatively on the CBAs / ESAs of the area.

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 |

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:
A Notification of Intent to Develop was compiled by ACO Associates and is attached under Appendix D. It concluded that no impacts on heritage resources are anticipated from any of proposed project activities and no further heritage studies are required.

The NID was submitted to Heritage Western Cape and they commented that there is no reason to believe that the proposed power line will impact on heritage resources and no further action is required. However, should any heritage resources, including evidence of graves and human burials, archaeological material and paleontological material be discovered during the execution of the activities, all works must be stopped immediately and Heritage Western Cape must be notified without delay.

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:

According to the Final Drakenstein Municipality Integrated Development Plan (IDP) 2013 – 2018 the socio-economic information for the Municipal Area is as follows:

- Housing Backlog - 22,748
- Unemployment Rate(%) - 23
- Households with No Income (%) – 52.7
- People older than 14 years illiterate (%) – 26
- HIV/AIDS Prevalence (%) – HIV: 8,151

Economic profile of local municipality:

According to the Final Drakenstein Municipality Integrated Development Plan (IDP) 2013 – 2018 the Key Economic Activities are as follows:

The Community Survey of 2007 highlighted that the biggest specified employment contributors in 2007 were:

<table>
<thead>
<tr>
<th>Key Economic Activities</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture, hunting, forestry and fishing</td>
<td>16.7</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>15.1</td>
</tr>
<tr>
<td>Community, Social and Personal Services</td>
<td>13.4</td>
</tr>
<tr>
<td>Wholesale and retail trade</td>
<td>11.1</td>
</tr>
<tr>
<td>Unspecified</td>
<td>19.8</td>
</tr>
<tr>
<td>Not adequately defined</td>
<td>5.8</td>
</tr>
</tbody>
</table>
Level of education:

According to the Final Drakenstein Municipality Integrated Development Plan (IDP) 2013 – 2018 the levels of education is as follows:
The number of people with no schooling increased marginally from 7,570 (2001) to 7,745 (2011). The number of people with some form of primary/secondary education increased from 75,112 (2001) to 145,616 (2011) or with 93, 86 %. The number of people obtaining Grade 12 Certificates increased from 24,716 (2001) to 46,368 (2011) and people with higher/tertiary education increased from 10,911 (2001) to 18,918 (2011).

b) Socio-economic value of the activity

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the expected capital value of the activity on completion?</td>
<td>Unknown</td>
</tr>
<tr>
<td>What is the expected yearly income that will be generated by or as a result of the activity?</td>
<td>Unknown</td>
</tr>
<tr>
<td>Will the activity contribute to service infrastructure?</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the activity a public amenity?</td>
<td>Yes</td>
</tr>
<tr>
<td>How many new employment opportunities will be created in the development and construction phase of the activity/ies?</td>
<td>Unknown</td>
</tr>
<tr>
<td>What is the expected value of the employment opportunities during the development and construction phase?</td>
<td>Unknown</td>
</tr>
<tr>
<td>What percentage of this will accrue to previously disadvantaged individuals?</td>
<td>Unknown</td>
</tr>
<tr>
<td>How many permanent new employment opportunities will be created during the operational phase of the activity?</td>
<td>Unknown</td>
</tr>
<tr>
<td>What is the expected current value of the employment opportunities during the first 10 years?</td>
<td>Unknown</td>
</tr>
<tr>
<td>What percentage of this will accrue to previously disadvantaged individuals?</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

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. 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)
### Systematic Biodiversity Planning Category

<table>
<thead>
<tr>
<th>Critical Biodiversity Area (CBA)</th>
<th>Ecological Support Area (ESA)</th>
<th>Other Natural Area (ONA)</th>
<th>No Natural Area Remaining (NNR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Drakenstein Conservation Plan, indicating the CBAs and ESAs within the study area is attached under Appendix A.</td>
<td>Critical Biodiversity Areas are regarded as essential areas for the achievement of regional conservation targets, and are designed to ensure minimum land take for maximum result, and Ecological Support Areas (ESAs) are less critical areas that still provide valuable habitat and support the CBAs.</td>
<td>A very small section of the proposed bypass line falls within a CBA. The entire study area is however cultivated / fallow agricultural lands and no sensitive fauna or flora was identified on site.</td>
<td>This Eskom project will not impact negatively on the CBAs / ESAs of the area.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Habitat Condition</th>
<th>Percentage of habitat condition class (adding up to 100%)</th>
<th>Description and additional Comments and Observations (including additional insight into condition, e.g. poor land management practices, presence of quarries, grazing, harvesting regimes etc.).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Near Natural</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degraded</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transformed</td>
<td>100%</td>
<td>The entire study area is cultivated / fallow agricultural lands. A railway line is present on site.</td>
</tr>
</tbody>
</table>

### 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)** | **Wetland (including rivers, depressions, channelled and unchanneled wetlands, flats, seeps pans, and artificial wetlands)**
Critical | Estuary
Endangered | YES
Vulnerable | NO
Least Threatened | UNSURE

According to the SA Vegetation map (Mucina & Rutherford 2006) the underlying vegetation type in the area is Atlantis Sand Fynbos, with Swartland Shale Renosterveld nearby. Both these vegetation types are listed as Critically Endangered on a national basis (DEA 2011). The soils on site are best described as sandy loams, and would have supported a mix of these two vegetation types prior to total transformation by cultivation.

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)

**Specialist Fauna & Flora Input** was given by Nick Helme Botanical Surveys and is attached under Appendix D and is summarised below.

**FLORA**
The project will not impact on any natural vegetation at all, being fully within cultivated or fallow lands. The railway reserve supports a few alien invasive shrubs in the form of *Acacia saligna* (Port Jackson), along with various alien annual grasses (*Lolium, Avena, Briza*, etc), and the indigenous grass *Cynodon dactylon* (fynkweek). The likelihood of there being any plant Species of Conservation Concern within the study area is very low, and the botanical impact of the proposed project will be Negligible before and after mitigation.

**FAUNA**
The terrestrial fauna in the area is unremarkable and unlikely to be impacted by the proposed project. Species present are likely to include Steenbok (*Raphicerus campestris*), Porcupine (*Hystrix africaeaustralis*), and Cape Gerbil (*Tatera afr*a). These are all common and widespread species, as well as being highly mobile, and will not be negatively impacted. Overall terrestrial faunal impacts are likely to be Negligible before and after mitigation.

**CONCLUSION**
No specific faunal or botanical mitigation is required or proposed.

**CAPENATURE**
The following comment was received from CapeNature:
The area in which the proposed bypass is located was historically covered by Atlantis Sand Fynbos with Swartland Shale Renosterveld occurring nearby. Most of the proposed powerline servitude has been previously ploughed however, it must be noted that several Species of Conservation Concern (SCC) have been identified in the road and railway reserves close to the bypass site.

The following mitigation measure was proposed and is included in the EMP:

No clearing of vegetation should take place without the supervision of the ECO who must ensure that only invasive alien vegetation is removed and that SCC are not accidentally or intentionally removed.
SECTION C: PUBLIC PARTICIPATION

1. ADVERTISEMENT AND NOTICE

<table>
<thead>
<tr>
<th>Publication name</th>
<th>Die Courant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date published</td>
<td>21 June 2017</td>
</tr>
<tr>
<td>Site notice position</td>
<td>Latitude</td>
</tr>
<tr>
<td></td>
<td>33° 25' 56.90&quot; S</td>
</tr>
<tr>
<td>Date placed</td>
<td>9 June 2017</td>
</tr>
</tbody>
</table>

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.

ACTIONS UNDERTAKEN DURING THE PUBLIC PARTICIPATION PROCESS

Notification of the project and Distribution of the BAR

- **Landowner, Government Departments, Municipalities and other IAPs**
  An I&AP List was compiled which includes the landowner, adjacent landowners, municipalities, government departments and other applicable organisations. The Draft BAR was distributed to everyone on this list during June 2017. A 30-day commenting period applied.

- **Onsite notification**
  One English and Afrikaans onsite notice was placed on 9 June 2017 adjacent to the R44 provincial road where the new line will be constructed. The notification was A3 in size and laminated.

- **Newspaper advertisement**
  A newspaper advertisement was placed in Die Courant, a local newspaper, on 21 June 2017.

- **Distribution of the Draft Basic Assessment Report for comment**
  The Draft BAR was distributed as follows (a 30-day commenting period applies):

  - Hard copies were delivered to the
    - National Department of Environmental Affairs: Environmental Authorisation
    - National Department of Environmental Affairs: Biodiversity Section
    - Western Cape Department of Environmental Affairs & Development Planning
    - Drakenstein Local Municipality
    - Cape Nature Scientific Services
The Landowner (Rooihoogte Trust)

- All registered Interested and Affected Parties received an electronic copy of the Draft BAR via email or notification of its availability via post.
- The Notification of Intent to Develop was submitted to Heritage Western Cape for their comment.

Final BAR

Final BAR (this document)

- Based on comment received on the Draft BAR, it was determined that no further public participation measures (i.e. a public meeting) were deemed necessary;
- Comment received on the Draft BAR is responded to below under paragraph 3.
- The Final BAR is now being submitted to DEA for approval / refusal of the project and ultimately issuing of the Environmental Authorisation.
- IAPs will be informed of the DEA’s decision and of their right to appeal.

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

Please refer to Appendix E for the contact details of below mentioned IAPs

<table>
<thead>
<tr>
<th>LANDOWNER</th>
</tr>
</thead>
<tbody>
<tr>
<td>J H Smuts, Rooihoogte Trust, Portion 38 of the Farm Rondeheuwel 25, Paarl</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADJACENT LANDOWNERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>C J Gerber (GM) &amp; J H du Preez, Pioneer Food (Pty)Ltd, Portion 3 of the Farm Belleveu 993</td>
</tr>
<tr>
<td>J E van der Merwe, Warterbron Trust, Portion 12 of of the Farm Botmaskloof 661 Malmesbury &amp; Riebeek Tafeldruifproduusente (Pty) Ltd, portion 16 of the Farm Botmaskloof 661, Malmesbury</td>
</tr>
<tr>
<td>P L Bester, Portion 6 of the Farm Botmaskloof 661, Malmesbury</td>
</tr>
<tr>
<td>H J Bruwer, Dagbreek Trust, Portion 6 of the Farm Botmaskloof 661, Malmesbury – retired please send to his son: Mr K Bruwer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>GENERAL STAKEHOLDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hermon Landbouvereening, for attention: Mr Nelius van Santen</td>
</tr>
</tbody>
</table>

Include proof that the key stakeholder received written notification of the proposed activities as Appendix E2. This proof may include any of the following:
3. **ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES**

3.1 **Comment received on the Draft BAR**

**Department of Environmental Affairs: Chief Director – Integrated Environmental Authorisations: Mr Sabelo Malaza**

**Enquiries to Mr Vincent Chauke**

**Comment on the Draft BAR**

- a. All relevant listed activities must be applied for.
- b. A full description of the public participation process followed must be provided in the Final BAR in terms of the EIA Regulations 2014, as amended.
- c. The EMPr is not a generic document and must incorporate a good quality final layout plan. The EMPr must comply with Appendix 4 of the EIA Regulations, 2014 as amended.
- d. All comments received on the Draft BAR must be included in the Final BAR.
- e. Proof of correspondence with stakeholders must be included in the final BAR as well as attempts made to obtain comment.
- f. The public participation must be conducted in terms of the EIA Regulations 2014, as amended.
- g. The BAR must include the period for which environmental authorisation is required and the date on which the activity will be concluded.
- h. The Final BAR must include an undertaking under oath or affirmation (administered by a Commissioner of Oaths) by the EAP.

**General**

- Regulation 19(1)(a) must be complied with.
- Should there be any significant changes or new information that has been added to the BAR or EMPr, stipulations as per Regulation 19(1)(b) should be followed.
- The final report to be submitted to the Department must comply with all the requirements of Appendix 1 of the EIA Regulations 2014, as amended.
- No activity may commence prior to an EA being granted by the Department.

**Response from Landscape Dynamics**

**Comment on Draft BAR**

- a. Only one listed activity is applicable to this project, namely Listing Notice 1, item 11 (also refer to Section A.1(b) of this Final BAR.
- b. A full description of the public participation process followed is included under Section C of this Final BAR. All stipulations as per the EIA Regulations 2014, as amended have been followed.
- c. The EMPr was amended to include limited site specific mitigation measures and certain mitigation measures that weren’t applicable to this project were deleted. A final layout plan is included. Please note that certain aspects of the EMP are applicable to all projects, i.e. Roles & Responsibilities and general mitigation measures to protect fauna, flora and water sources. The Dagbreek Bypass Project...
is a very small project and will take place in a highly disturbed environment and very little impact is foreseen. The application of general mitigation measures as provided in the EMP should however ensure the protection of the biophysical (even highly disturbed) and social environments.

d. All comment received on the Draft BAR is adequately addressed under Section C in this Final BAR.

e. Proof of correspondence, and attempts made to obtain comment, are all included under Appendix E of this Final BAR.

f. The public participation process was conducted in terms of Regulation 39 to 44 of the EIA Regulations 2014, as amended.

g. This information is supplied under Section E “Recommendation of Practitioner” of this Final BAR where it is stated that the period for which the EA is required is 10 years. It is unknown at this stage when exactly construction will commence so it is not possible to state on which date the activity will be concluded. Construction should however commence within the validity period of the EA.

h. An affirmation is included under Section E of this Final BAR. Please note that, according to the EIA Regulations 2014, as amended, an affirmation does not need to be administered by a Commissioner of Oaths.

General

- All timeframes as per Regulation 19(1)(a) were complied with.
- No significant changes or new information has been added to the BAR and another public participation process is not required.
- All the requirements as per Appendix 1 of the EIA Regulations 2014, as amended are being adhered to.
- No activity will commence prior to an EA being granted by the Department.

Western Cape Department of Environmental Affairs & Development Planning: Head of Department: Mr D Matthews

- The listed notices as contained in GN 327, 325 and 324 should be consulted and all activities should be included. It must be indicated on how the impact of the additional activities has been adequately addressed and all IAPs must be informed of any new listed activities that may have been triggered.
- Clarity is required in terms of the applicability of Activity 11 as listed in the BAR since the activity excludes the development of bypass infrastructure that is 2km or shorter in length.
- The Final BAR must contain all information as per Appendix 1 of GN 326.
- The activity may not commence prior to the EA being issued.

Response from Landscape Dynamics

- This Application was made in August 2017 and the April 2017 amended listing notices was applied.
- Activity 11 states that the following is excluded:
  (a) temporarily required to allow for maintenance of existing infrastructure;
  (b) 2 kilometres or shorter in length;
  (c) within an existing transmission line servitude; AND
  (d) will be removed within 18 months of the commencement of development.

  The word AND means that all for exclusions should apply and not only one. This activity is definitely applicable to this project.

- The Final BAR does contain all information as per Appendix 1 of GN 326.
- The activity will not commence prior to the EA being issued.

- The DEADP confirmed in an email dated 8 September 2017 that above-mentioned interpretation is acceptable to them.
CapeNature: Manager (Scientific Services): Alana Duffell-Canham

1. The area in which the proposed bypass is located was historically covered by Atlantis Sand Fynbos with Swartland Shale Renosterveld occurring nearby. Most of the proposed powerline servitude has been previously ploughed however, it must be noted that several Species of Conservation Concern (SCC) have been identified in the road and railway reserves close to the bypass site.

2. CapeNature does not object to the proposed bypass provided that it is not located further to the south-west than indicated in Appendix A. Even though we agree that the likelihood of SCC occurring within the disturbance footprint of the bypass is low, no clearing of vegetation should take place without the supervision of the ECO who must ensure that only invasive alien vegetation is removed and that SCC are not accidentally or intentionally removed.

3. The Environmental Management Programme (EMPr) is quite generic and we recommend removing some of the generic mitigation measures that are not applicable to this site so that the site-specific mitigation measures are given greater emphasis.

4. CapeNature reserves the right to revise initial comments and request further information based on any additional information that may be received.

Response from Landscape Dynamics

1. The BAR was amended to reflect this statement.

2. The power line will not be constructed outside of the proposed route corridor. This stipulation is included in the EMP.

3. The EMPr was amended to include limited site specific mitigation measures and certain mitigation measures that weren’t applicable to this project were deleted. Please note that certain aspects of the EMP are applicable to all projects, i.e. Roles & Responsibilities and general mitigation measures to protect fauna, flora and water sources. The Dagbreek Bypass Project is a very small project and will take place in a highly disturbed environment and very little impact is foreseen. The application of general mitigation measures as provided in the EMP should however ensure the protection of the biophysical (even highly disturbed) and social environments.

4. Comment noted.

Heritage Western Cape: Mr Andrew September

- They received the Notification of Intend to Developed and commented that there is no reason to believe that the proposed power line will impact on heritage resources and no further action is therefore required.

- However, should any heritage resources, including evidence of graves and human burials, archaeological material and paleontological material be discovered during the execution of the activities, all works must be stopped immediately and Heritage Western Cape must be notified without delay.

Response from Landscape Dynamics

- Comment noted

- It is stipulated as such in the EMP.

Drakenstein Municipality: Personal Assistant to the Municipal Manager: Ms Melany Brown

Ms Brown acknowledges receipt of the email (distribution of the Draft BAR) on behalf of the Municipal Manager, Mr Johan Leibbrandt
Response from Landscape Dynamics
- Even though a hard copy of the Draft BAR was send via courier to the Municipal Manager, no further comment from the Drakenstein Municipality was received.

Western Cape Transport and Public Works: Head of Office: Head of Department: Sharonette Webb-Olivier
The email that was sent out by Landscape Dynamics where the Draft BAR was distributed for comment had the wrong attachments and another email was sent to rectify this mistake. Ms Webb-Olivier acknowledged receipt thereof.

Response from Landscape Dynamics
- No further comment from the Department was received.

Hermon Landbouvereeniginig: Mr Johan Strauss
Mr Strauss informed Landscape Dynamics that the wrong documents were attached to the email.

Response from Landscape Dynamics
- The correct documents and addendums were emails to Mr Strauss
- No further comment was received.

(Adjacent landowner) Mr P L Bester, Portion 6 of the Farm Botmaskloof 661, Malmesbury
Mr Bester contacted Landscape Dynamics telephonically and requested that the location and route maps be emailed to him.

Response from Landscape Dynamics
- The maps were emailed to Mr Bester and no further comment was received.

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:

Please refer to Appendix E for the contact details of below mentioned IAPs
GOVERNMENT DEPARTMENTS

<table>
<thead>
<tr>
<th>Department</th>
<th>Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Department of Environmental Affairs: Biodiversity Conservation</td>
<td>Deputy-Director: Mr Seoka Lekota</td>
</tr>
<tr>
<td>Department of Environmental Affairs &amp; Development Planning: Directorate</td>
<td>Development Management (Region 2): Head of Component: Environmental Impact Management Services: For attention Ms Arabel McClelland</td>
</tr>
<tr>
<td>Department of Environmental Affairs &amp; Development Planning: The Head of Component, Mr Henri Fortuin (Region 2)</td>
<td></td>
</tr>
<tr>
<td>Transnet Freight Rail: The Senior Manager: - Environmental Management: For attention: Mr Ezekiel Monyamane and Livhuwani Ndou and Zanele Manyathi</td>
<td></td>
</tr>
<tr>
<td>Department of Agriculture and Land Affairs: The Deputy Director: Agriculture Development &amp; Support Services (Acting): For attention Mr Darryl Jacobs</td>
<td></td>
</tr>
<tr>
<td>Department of Water Affairs &amp; Sanitation: The Chief Director - Western Cape Region: For attention Mr Rasheed Khan</td>
<td></td>
</tr>
<tr>
<td>Department of Water and Sanitation: Breede-Gouritz Catchment Management Agency, Manager of Water Resources Management (WRM) For attention: Mr Jan van Staden</td>
<td></td>
</tr>
<tr>
<td>Heritage West Cape: Heritage Officer: For attention: Mr Troy Smuts</td>
<td></td>
</tr>
<tr>
<td>Department Roads and Public Works: The Head of the Department: For attention: Miss Jacqui Gooch, Head of Office: Ms Sharonette Webb-Olivier and Head of Office: Sharonette Webb-Olivier</td>
<td></td>
</tr>
<tr>
<td>SA National Roads Agency: Western Region - Statutory Control: For attention Ms C Runkel &amp; Ms R de Kock and the Environmental Co-ordinator: Ms Nicole Abrahams</td>
<td></td>
</tr>
<tr>
<td>SA National Roads Agency: Environmental Specialist, For attention: Miss Nicole Abrahams</td>
<td></td>
</tr>
<tr>
<td>Cape Nature: The Manager – Scientific Services: For attention Mr Rhett Smart</td>
<td></td>
</tr>
<tr>
<td>Eskom, Environmental Management, Megawatt Park, EIA COE Manager, For attention: Mr Tobele Bokwe</td>
<td></td>
</tr>
<tr>
<td>Eskom Western Cape Operating Unit: Land Development, Senior Clerk Land &amp; Rights, for attention: Ms Rochelle Mc Pherson</td>
<td></td>
</tr>
<tr>
<td>Eskom Holdings Ltd: The Chief Advisor - Land and Rights: For attention Ms Bronwyn Stolp and/or Ms Tinkie Holl</td>
<td></td>
</tr>
</tbody>
</table>

MUNICIPALITIES

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Contact Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cape Winelands District Municipality, The Municipal Manager,</td>
<td>for attention: Mr M Mgajo</td>
</tr>
<tr>
<td>Drakenstein Local Municipality, The Municipal Manager, for attention: Dr Johan Leibrandt PA: Melany</td>
<td></td>
</tr>
<tr>
<td>Drakenstein Local Municipality, Executive Manager for Planning and Economic Development, for attention: Ms Lauren Waring</td>
<td></td>
</tr>
<tr>
<td>Drakenstein Local Municipality, Executive Manager: Infrastructure Services, for attention: Mr Dirk Hattingh</td>
<td></td>
</tr>
<tr>
<td>Drakenstein Local Municipality, Environmental Management, for attention: Ms Ilse Fielies</td>
<td></td>
</tr>
<tr>
<td>Drakenstein Local Municipality, for attention: Ward Councillor for Ward 31: Mr Geoffrey Harry Ford</td>
<td></td>
</tr>
<tr>
<td>Drakenstein Local Municipality, for attention Ward Councillor for Ward 31: Ms Aletta van Santen (Hermon)</td>
<td></td>
</tr>
</tbody>
</table>
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.

Please note that a comprehensive Impact Assessment (with detailed mitigation measures) is supplied in Appendix F where the impacts are assessed in terms of the following criteria:

- Nature of the impact (what is being affected and how, is it positive or negative);
- Extent (site specific / local / regional / national / global);
- Duration (short / medium / long / permanent);
- Magnitude or intensity of the impact (would the impact be destructive or benign and rated as low / moderate / severe);
- Probability of impact occurring (unlikely / possible / probable / definite)

The mitigation measures as supplied in this Impact Assessment are also included in the Environmental Management Plan.

The Significance Rating of an impact is assessed before and after mitigation measures has been applied and refers to the following:

<table>
<thead>
<tr>
<th>Significance of Impact</th>
<th>Explanation of Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>There is no impact at all</td>
</tr>
<tr>
<td>Low</td>
<td>Impact is negligible or is of a low order and is likely to have little real effect</td>
</tr>
<tr>
<td>Medium</td>
<td>Impact is real but not substantial</td>
</tr>
<tr>
<td>High</td>
<td>Impact is substantial</td>
</tr>
<tr>
<td>Very high</td>
<td>Impact is very high and can therefore influence the viability of the project</td>
</tr>
</tbody>
</table>

Please note that detail impact descriptions and mitigation measures are supplied in the Impact Assessment (Appendix F). All mitigation measures are also included in the Environmental Management Plan (Appendix G).
## Alternative 1

<table>
<thead>
<tr>
<th>Short impact description</th>
<th>Significance before mitigation</th>
<th>Significance after mitigation</th>
</tr>
</thead>
</table>
| **Botanical Impact (Fauna & Flora)**  
Disturbance to and/or destruction of habitat due to insensitive construction methods and illegal placement of snares could impact on the *Fauna & Flora* on site and within the macro study area. However, the ecologist confirmed the following:  
**Flora**  
The project will not impact on any natural vegetation at all, being fully within cultivated or fallow lands. The likelihood of there being any plant Species of Conservation Concern within the study area is very low, and the botanical impact of the proposed project will be Negligible before and after mitigation.  
**Fauna**  
The terrestrial fauna in the area is unremarkable and unlikely to be impacted by the proposed project. Overall terrestrial faunal impacts are likely to be Negligible before and after mitigation.  
Standard mitigation measures are supplied in the EMP | Low / Very Low | Very Low |
| **Aquatic Ecosystems** (surface water)  
There are no aquatic ecosystems on site or in close proximity to the site. | None | None |
| **Cultural / Heritage Impacts**  
No sites of heritage resources have been identified or are likely to be found within the proposed development area (the short powerline will cross a railway line and cultivated / fallow agricultural lands). | Low to Very Low | Very Low |
| **Groundwater**  
Potential for groundwater pollution always exists as a result of oil spills, etc. during the construction period. The short power line and subsequent short construction period however reduces the pollution risk considerably. | Medium / Low | Very Low |
| **Soils / Erosion**  
The soil erosion potential on this site is very low (it is a flat surface within cultivated / fallow agricultural fields). | Low to Very Low | Very Low |
| **Community**  
An influx of workers could result in an increased risk for crime and general safety. The small scale of this project however means a short construction period with limited workers and the impact would therefore be low to very low. | Low / Very Low | Very Low |
Air quality
Dust created by construction vehicles could impact on air quality during the construction period. The small scale of this project however means a short construction period and the impact would therefore be low to very low.

Noise
Labourers and machinery could result in noise pollution during the construction period. The small scale of this project however means a short construction period with limited construction workers and the impact would therefore be low to very low.

### Alternative 2

<table>
<thead>
<tr>
<th>Short impact description</th>
<th>Significance before mitigation</th>
<th>Significance after mitigation</th>
</tr>
</thead>
</table>

### Alternative 3

<table>
<thead>
<tr>
<th>Short impact description</th>
<th>Significance before mitigation</th>
<th>Significance after mitigation</th>
</tr>
</thead>
</table>

**Conclusion of Impact Significant Rating**

All identified impacts that this Eskom project could have on the environment can be easily and reasonably mitigated to acceptable levels. There are no negative impacts that could influence the feasibility and viability of this project.

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.

Please note that a comprehensive Impact Assessment (with detailed mitigation measures) is supplied in Appendix F. The Impact Statement below is a summary of the conclusion of this Impact Assessment. *All mitigation measures are also included in the Environmental Management Plan (Appendix G).*
Alternative 1

Considerations of alternatives
- The layout of the route close to existing powerlines of similar nature is a logical route and is the shortest possible route which is cost effective and will result in the least visual intrusion in an already disturbed micro environment. From this perspective it would therefore serve no purpose to consider an additional layout/route.
- The only alternative that could potentially have been considered is the pylon structure to use. However, the Eskom Planning Engineers can only confirm the final pylon structure during the design phase – this will be based on technical considerations. All indications are that similar pylons (monopole steel structures) would be utilised.
- The site does not reflect any environmental sensitivities which could influence viable alternatives.
- The scale of the project is relatively small (± 380m of power line); therefore insignificant in context with the macro area.

Based on the above, it is the EAP’s recommendation that no additional alternatives, apart from the No Go Alternative should be considered during this application.

Further to the above, it was confirmed by the ecologist that the impact on the fauna & flora will be Negligible before and after mitigation. There are no surface water within the immediate vicinity of the site and no impacts on heritage resources are anticipated.

This Dagbreek Bypass project is of a very small scale and the associated impacts are minimal and very easily mitigatable.

The Dagbreek Bypass Route Corridor as presented is therefore recommended for environmental authorisation.

Alternative 2

Alternative 3

No-go alternative (compulsory)

The Gouda 135.2MW Windfarm was announced as a preferred bidder in 2012. The grid connection was going to be with a 132kV line from the LaBonne Substation to the Windmill Substation. As the condition and capacity of Eskom’s existing 66kV lines was not favourable at that time, Eskom negotiated with the Independent Power Producer (IPP) to build a double circuit line: the 132kV line will be used by the IPP and the 66kV line will be operated by Eskom. Eskom also needed to refurbish the Gouda substation and had already initiated a project to rebuild it on an adjacent site called Nuwekloof. The windfarm’s substation, LaBonne is ±5km from Gouda/Nuwekloof substation.

The full scope could not be implemented as the Nuwekloof Substation was not available in time for the commissioning of the LaBonne 132kV line for the IPP. The scope that was not completed was to connect one circuit of the new line into Dagbreek and Nuwekloof substation.
The current construction contract does not include tying-in the new 66kV line into Gouda/Nuwekloof and Dagbreek. If the old Dagbreek-Gouda line is turned into Nuwekloof now, more work will be required in future to connect the new line. This is because 66kV feeder bay swaps will be required due to the line crossing. Practically, this will require a full substation outage and likely cost at least R2m.

Carrying on using the old 66kV line could impact network performance due to line condition. It also limits the transfer capabilities on the 66kV network between Gouda, Moorreesburg, Romansrivier and Windmill under contingency.

Costly rework at a later stage will be avoided if the Dagbreek Bypass which will connect the Dagbreek and Windmill – Labonne power lines are now constructed.

It is clear that if the status quo remains, Eskom will have to carry considerable costs to provide appropriate transfer capabilities on the 66kV network between Gouda, Moorreesburg, Romansrivier and Windmill. The maintaining of the status quo, in other words the application of the no-go option, is definitely not recommended for this project.
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)?

| YES | NO |

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).

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.

**Environmental Management Plan**

The Environmental Management Plan contains, amongst other, the mitigation measures as supplied in this report. It is therefore recommended that the implementation of the Environmental Management Plan must be a condition in the authorisation of the project.

**Approval of route corridor**

A 140m wide route corridor is being investigated (70m on both sides of the proposed bypass power line). This route corridor must be approved by the Department of Environmental Affairs, which will allow for slight deviations of the power line within the approved corridor. Please note that Eskom will however only register the required servitude within the route corridor and *not* the entire corridor. The approval of the route corridor should be included in the Environmental Authorisation.

**Period for which environmental authorisation is required**

10 years

**Estimate date on which activity will be concluded**

It is unknown at this stage when exactly construction will commence so it is not possible to state on which date the activity will be concluded. Construction should however commence within the validity period of the EA.

Is an EMPr attached?

| YES | NO |

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.
AFFIRMATION

I, Annelize Grobler, herewith confirm the following:

- The information contained in this report is to the best of our knowledge and experience correct.
- All relevant comment and input provided by the stakeholders and I&APs are included and addressed in this EIR.
- Input and recommendations from the specialist reports are provided in and integrated with the EIR.
- All information made available by the EAP to I&APs and any responses thereto as well as comment and input from I&APs are provided in the BAR

______________________________
Annelize Grobler
DATE: 27 September 2017
SECTION F: APPENDIXES

Appendix A: Maps
- Locality Map
- Route Map
- SANBI: Critical Biodiversity Areas

Appendix B: Photographs
- Photo Report

Appendix C: Facility illustration(s)
- None

Appendix D: Specialist reports (including terms of reference)
- Specialist Fauna & Flora Input – Nick Helme Botanical Surveys
- Notification of Intent to Develop (Heritage Assessment) – ACO Associates

Appendix E: Public Participation
- E1a – Proof of Placement of Advertisements: Newspaper
- E1b – Proof of Placement of Advertisements: Onsite Notice
- E2a – Proof of Notification of project and of availability of the Draft BAR to all IAPs
- E2b – Proof of notification of submission of Final BAR to DEA
- E3 – Comments & Reponses Report
- E4 – Complete register of Interested & Affected Parties
- E5 – Copies of Correspondence, notes and minutes of meetings
  E5.1 Written comment received on the Draft BAR

Appendix F: Impact Assessment
- Impact Assessment

Appendix G: Environmental Management Programme (EMPr)
- Environmental Management Plan

Appendix H: Details of EAP and expertise
- Landscape Dynamics Company Profile and Condensed CVs of EAPs

Appendix I: Specialist’s declaration of interest
- Nick Helme and Tim Hart

Appendix J: Additional Information
- Not applicable