
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, 2006 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. The report must be typed within the spaces provided in the form. The size of the spaces provided are 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.

3. Where applicable tick the boxes that are applicable or black out the boxes that are not applicable in the report.

4. An incomplete report may be returned to the applicant for revision.

5. 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.

6. This report must be handed in at offices of the relevant competent authority as determined by each authority.

7. No faxed or e-mailed reports will be accepted.

8. The report must be compiled by an independent environmental assessment practitioner.

9. 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.

10. A competent authority may require that for specified types of activities in defined situations only parts of this report need to be completed. In addition, if it is clear to the EAP that because of the particular circumstances of the case it is not sensible to complete any of the sections indicated under paragraph 3 of this report, he or she may apply for exemption from completing that part of the report in the spaces provided in the report. It must however be noted that if the application for exemption is turned down, the report may have to be resubmitted.
## DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

<table>
<thead>
<tr>
<th>Environmental Assessment Practitioner (EAP):</th>
<th>Gugu Mlangeni</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact person:</td>
<td>Gugu Mlangeni</td>
</tr>
<tr>
<td>Company:</td>
<td>Bembani Sustainability Training (Pty) Ltd</td>
</tr>
<tr>
<td>Postal address:</td>
<td>P.O. Box 1589</td>
</tr>
<tr>
<td>Telephone:</td>
<td>Sunninghill</td>
</tr>
<tr>
<td></td>
<td>(011) 312 1480</td>
</tr>
<tr>
<td>E-mail:</td>
<td><a href="mailto:gugu@bembani.com">gugu@bembani.com</a></td>
</tr>
<tr>
<td>Postal code:</td>
<td>2157</td>
</tr>
<tr>
<td>Cell:</td>
<td>082 360 7831</td>
</tr>
<tr>
<td>Fax:</td>
<td>(086) 618 1569</td>
</tr>
</tbody>
</table>

**EAP Qualifications:** Masters in Environmental Management

**Expertise of the EAP:**

Gugu Mlangeni has 8 years of professional experience and has a wealth of experience in carrying out Environmental Impact Assessments (EIAs) for various projects, which she gained through the years.

Her areas of expertise are:

- Project Management
- EIA, EMP, Land Use
- Agriculture, SIA
- Public Participation & Stakeholder Engagement
- Report writing, SoER, EMF, Sustainable Development, etc.
SECTION A: APPLICATION FOR EXEMPTION

The relevant parts of this section must be completed if the environmental assessment practitioner (EAP) on behalf of the applicant wishes to apply for exemption from completing or complying with certain parts of this basic assessment report.

1. APPLICATION FOR EXEMPTION FROM ASSESSING ALTERNATIVES:

At least two alternatives (site or activity) should be assessed. If that is not possible, the applicant should apply for exemption from having to assess alternatives. Such exemption will, however, not apply to the no-go alternative that must be assessed in all cases.

Provide a detailed motivation for not considering alternatives including an explanation of the reason for the application for exemption (supporting documents, if any, should be attached to this report):

The proposed installation of the 15m telecommunication mast at the Iziko Capacitor Bank Station on Portion 00001, Doornhoek and Portion 00018, Groote Vallei, Middelburg, Eastern Cape, is required as part of the existing Hydra-Poseidon 400kV Iziko Capacitor Bank Station. The radio tower is part of a major communication and protection network system for reliable power supply to the Southern Grid, and the proposed 15m telecommunication mast should be installed next to the existing control room of the Capacitor Bank Station, as all other communication equipment needed for communication will be in the control room. The proposed site or location (i.e. next to the control room of the Capacitor Bank Station) is the most economical for logistics, as well as service.

An Exemption for the Hydra-Poseidon 400kV Iziko Capacitor Bank Station project (Reference No. A24/29/3/420) was granted by the Department of Environmental Affairs & Tourism on 26/06/2003.

I declare that the above motivation is accurate and, hereby apply for exemption in terms of regulation 51 of the Environmental Impact Assessment Regulations, 2006, from having to assess alternatives in this application as required in section 24(4)(b) in the National Environmental Management Act, 1998 (Act No. 107 of 1998)

Signature of the EAP: ______________________ Date: ______________________

2. APPLICATION FOR EXEMPTION FROM COMPLYING WITH PARTS OF REGULATION 23(2) REGARDING THE CONTENT OF THIS BASIC ASSESSMENT REPORT:

Application for exemption from certain parts of regulation 23(2) regarding the completion of certain parts of this basic assessment report may be made by completing the relevant sections below.

Indicate the numbers of the sections of this report for which exemption is applied for:

<table>
<thead>
<tr>
<th>Section</th>
<th>7(a)</th>
<th>7(b)</th>
<th>7(c)</th>
<th>7(d)</th>
<th>8</th>
<th>9</th>
<th>10(c)</th>
<th>10(e)</th>
<th>10(f)</th>
<th>10(g)</th>
<th>10(h)</th>
<th>10(j)</th>
<th>10(k)</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>B:</td>
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<td>3</td>
<td>4</td>
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<td>6</td>
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<tr>
<td>C:</td>
<td>1(a)</td>
<td>1(b)</td>
<td>1(c)</td>
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</tbody>
</table>

Provide a detailed motivation including an explanation of the reason for the application for exemption (supporting documents, if any, should be attached to this report):

I declare that the above motivation is accurate and, hereby apply for exemption in terms of regulation 51 of the EIA Regulations, 2006, from having to complete the indicated sections of the Basic Assessment Report.

Signature of the EAP: ______________________ Date: ______________________
SECTION B: ACTIVITY INFORMATION

1. ACTIVITY DESCRIPTION

Describe the activity, which is being applied for in detail (A1):

Installation of a 15 m telecommunication mast, which will include installation of a 8 or 15 Ghz Alcatel 9400AWY 1+1 8 E1 radio with proposed 0.6 meter dish size working of Middelburg radio site on the main Eskom Telecomm SDH system. This includes a total indoor installation of the radio in the existing Iziko Capacitor Bank Station, next to the control room.

The proposed telecommunication mast is required as part of the existing Hydra-Poseidon 400kV Iziko Capacitor Bank Station. An Exemption for the Hydra-Poseidon 400kV Iziko Capacitor Bank Station project (Reference No. A24/29/3/420) was granted by the Department of Environmental Affairs & Tourism on 26/06/2003.

2. ALTERNATIVES

Describe alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity 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.

2(a) Site alternatives:

Describe site alternative 1 (S1), for the activity described above, or for any other activity alternative:

The project site is within the existing Iziko Capacitor Bank Station on Portion 00001, Doornrook and Portion 00018, Groote Vallei, Middelburg, Eastern Cape. The proposed 15m telecommunication mast is required as part of the existing Hydra-Poseidon 400kV Iziko Capacitor Bank Station, and should be installed next to the existing control room of the Capacitor Bank Station, as all other communication equipment needed for communication will be in the control room.

The proposed site or location (i.e. next to the control room of the Hydra-Poseidon 400kV Iziko Capacitor Bank Station) for the installation of the telecommunication mast is the most economical for logistics, as well as service.

Describe site alternative 2 (S2), if any, for the activity described above, or for any other activity alternative:

Describe site alternative 3 (S3), if any, for the activity described above, or for any other activity alternative:

(2)(b) Activity alternatives:

Describe activity alternative 2 (A2), if any, for any or all of the site alternatives as appropriate:

There are no activity alternatives, as the radio tower to be installed at the Iziko Capacitor Bank Station is part of the major communication and protection network system for reliable power supply to the Southern Grid, i.e. the telecommunication mast must be installed for communication purposes.

The footprint of the mast is related to the height of the tower. The proposed operating height of the mast will allow for signals to clear trees and any clutter within the surrounding environment.

Describe activity alternative 2 (A2), if any, for any or all of the site alternatives as appropriate:

Describe activity alternative 2 (A2), if any, for any or all of the site alternatives as appropriate:

4. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should have at least three decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.
Alternative: Latitude (S): Longitude (E):
Alternative S1 (preferred or only site alternative)
Alternative S2 (if any)
Alternative S3 (if any)

In the case of linear activities:

Alternative: Latitude (S): Longitude (E):
Alternative S1 (preferred or only route alternative)
- Starting point of the activity
- Middle point of the activity
- End point of the activity
Alternative S2 (if any)
- Starting point of the activity
- Middle point of the activity
- End point of the activity
Alternative S3 (if any)
- Starting point of the activity
- Middle 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.

5. PHYSICAL SIZE OF THE ACTIVITY

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

**Alternative:**
Alternative A1² (preferred activity alternative)

The footprint of the mast is related to the height of the tower, i.e. 15m.

Alternative A2 (if any)
Alternative A3 (if any)
or, for linear activities:

**Alternative:**
Alternative A1 (preferred activity alternative)
Alternative A2 (if any)
Alternative A3 (if any)

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

**Alternative:**
Alternative A1 (preferred activity alternative)
Alternative A2 (if any)
Alternative A3 (if any)

6. SITE ACCESS

Does ready access to the site exist, or is access directly from an existing road?  
YES   NO

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

Describe the type of access road planned:

Include the position of the access road on the site plan.

7. WASTE, EFFLUENT, EMISSION AND NOISE MANAGEMENT

7(a) Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?  
YES   NO

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

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

The duration of the construction will be 3-4 weeks. The produced solid construction waste will feed into a municipal waste stream and through the utilization of a chemical toilet.

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

At a registered municipal landfill site.

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¹ “Alternative S:” refer to site alternatives.
² “Alternative A:” refer to activity, process, technology or other alternatives.
Will the activity produce solid waste during its operational phase?  NO
If yes, what estimated quantity will be produced per month? m³
How will the solid waste be disposed of (describe)?
Where will the solid waste be disposed 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, 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 relevant legislation? NO
If yes, inform the competent authority and request a change to an application for scoping and EIA.
Is the activity that is being applied for a solid waste handling or treatment facility? 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.
Describe the measures, if any, that will be taken to ensure the optimal reuse or recycling of materials: The surplus material from the excavation around the tower will be disposed in such a way that drainage is improved.
Has a specialist been consulted to assist with the completion of this section? NO
Name of the specialist:
Qualification(s) of the specialist:
Postal address:
Postal code:
Telephone:
E-mail:
Are any further specialist studies recommended by the specialist? YES
If YES, specify:
If YES, is such a report(s) attached? YES
Signature of specialist:  Date:

7(b) Liquid effluent
Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system? 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? 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? NO
If yes, provide the particulars of the facility:
Facility name:
Contact person:
Postal address:
Postal code:
Telephone:
E-mail:
Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:
Has a specialist been consulted to assist with the completion of this section? NO
Name of the specialist:
Qualification(s) of the specialist:
Postal address:
Postal code:
Telephone:
E-mail:
Are any further specialist studies recommended by the specialist? YES
If YES, specify:
If YES, is such a report(s) attached? YES
Signature of specialist:  Date:

7(c) Emissions into the atmosphere
Will the activity release emissions into the atmosphere? NO
If yes, is it controlled by any legislation of any sphere of government?
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.
If no, describe the emissions in terms of type and concentration:

Some emission may be produced during the construction phase of the project, i.e. by the construction vehicles. Dust may also be created during the construction phase. No emissions will be produced during the operation phase of the project.

<table>
<thead>
<tr>
<th>Has a specialist been consulted to assist with the completion of this section?</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the specialist:</td>
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<td>Qualification(s) of the specialist:</td>
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<td>Fax:</td>
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<tr>
<td>Are any further specialist studies recommended by the specialist?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>If YES, specify:</td>
<td></td>
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<tr>
<td>If YES, is such a report(s) attached?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Signature of specialist:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**7(d) Generation of noise**

Will the activity generate noise?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

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.

If no, describe the noise in terms of type and level:

<table>
<thead>
<tr>
<th>Low levels of noise might be generated only during the construction phase, i.e. due to the construction activities.</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Has a specialist been consulted to assist with the completion of this section?</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name of the specialist:</td>
<td></td>
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<td>Qualification(s) of the specialist:</td>
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<tr>
<td>Postal address:</td>
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<td>Fax:</td>
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<tr>
<td>Are any further specialist studies recommended by the specialist?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>If YES, specify:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>If YES, is such a report(s) attached?</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Signature of specialist:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**8. 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</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</th>
</tr>
</thead>
</table>

Water required for the construction activities will be imported from the nearest town, i.e. Middelburg, which is 20km away from the site. The water required will be approximately 1080 liters.

<table>
<thead>
<tr>
<th>If water is to be extracted from groundwater, river, stream, dam or any other natural feature, please indicate the volume that will be extracted per month:</th>
<th>N/A</th>
<th>liters</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

Does the activity require a water use permit from the Department of Water Affairs and Forestry?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
</table>

If yes, please submit the necessary application to the Department of Water Affairs and Forestry and attach proof thereof to this application if it has been submitted.

**9. ENERGY EFFICIENCY**

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

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

10(a) The scale of the plan which must be at least a scale of 1:500;
10(b) the property boundaries and numbers of all the properties within 50m of the site;
10(c) the current land use as well as the land use zoning of each of the properties adjoining the site or sites;
   o The surrounded land uses are sheep farming, whereas the current land use on which the telecommunication mast will be installed is industrial.
10(d) the exact position of each element of the application as well as any other structures on the site;
10(e) the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, street lights, sewage pipelines, storm water infrastructure and telecommunication infrastructure;
10(f) all trees and shrubs taller than 1.8m;
10(g) walls and fencing including details of the height and construction material;
   o 1.8m high Diamond mesh
10(h) servitudes indicating the purpose of the servitude;
10(i) sensitive environmental elements within 100m of the site or sites including (but not limited thereto):
   ▪ rivers;
   ▪ the 1:100 year flood line (where available or where it is required by DWAF);
   ▪ ridges;
   ▪ cultural and historical features;
   ▪ areas with indigenous vegetation (even if it is degraded or invested with alien species);
   o There are no sensitive environmental elements within the 100m of the site.
10(j) for gentle slopes the 1m contour intervals must be indicated on the plan and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the plan; and
   o The site is on the terrace at 1:150
10(k) the positions from where photographs of the site were taken.

11. SITE PHOTOGRAPHS

Colour photographs from the center 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 form. It should be supplemented with additional photographs of relevant features on the site, if applicable.

12. FACILITY ILLUSTRATION

A detailed illustration of the activity must be provided at a scale of 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.

13. ACTIVITY MOTIVATION

13(a) Socio-economic value of the activity
What is the expected capital value of the activity on completion?
R 200 000. 00
What is the expected yearly income that will be generated by or as a result of the activity?
R N/A

Eskom will not be earning revenue directly from the microwave, but rather from energy sales to especially the Nelson Mandela Bay Municipality and the Coega Development Company in the Coega Industrial Development Zone due to the additional energy transfer created by the series capacitors that cannot be commissioned and operated without the microwave towers.

Will the activity contribute to service infrastructure or is it a public amenity?
NO

How many new employment opportunities will be created in the development phase of the activity?
None.
What is the expected value of the employment opportunities during the development phase?
R N/A
What percentage of this will accrue to previously disadvantaged individuals?
N/A%
How many permanent new employment opportunities will be created during the operational phase of the activity?
None.
What is the expected current value of the employment opportunities during the first 10 years? R
What percentage of this will accrue to previously disadvantaged individuals? N/A N/A

13(b) Need and desirability of the activity

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

| The radio towers are part of the major network, protection and communication system for the power supply to the Southern Grid. |

Indicate any benefits that the activity will have for society in general:

| The Nelson Mandela Bay Municipality and the Coega Development Company in the Coega Industrial Development Zone in the Eastern Cape will benefit from the activity due to the additional energy transfer of about 300MW created by the series capacitors, whereas the additional energy to be transferred to the Western Cape will be 50MW. However, the series capacitors cannot be commissioned and operated without the microwave towers. |

Indicate any benefits that the activity will have for the local communities where the activity will be located:

| Not Applicable |

14. 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:

<table>
<thead>
<tr>
<th>Title of legislation, policy or guideline:</th>
<th>Administering authority:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telecommunications Act, Act 103 of 1996. Eskom has authority to operate its Private Telecommunication Network (PTN) in terms of section 41(1)(c) of the Telecommunications Act.</td>
<td>Department of Communications, with concurrence of the Department of Public Enterprise</td>
<td>15 November 1996</td>
</tr>
<tr>
<td>Independent Communications Authority of South Africa Act, Act 13 of 2000 (the icasa Act)</td>
<td>Department of Communication</td>
<td>01 May 2000</td>
</tr>
<tr>
<td>National Environmental Management: Air Quality Act, Act 39 of 2004</td>
<td>Department of Environmental Affairs and Tourism</td>
<td>24 February 2005</td>
</tr>
<tr>
<td>Environment Conservation Act, Act 73 of 1989 – ECA (Regulations in terms of Section 25: Noise Control)</td>
<td>Department of Environmental Affairs and Tourism</td>
<td>09 June 1989</td>
</tr>
</tbody>
</table>
SECTION C: SITE/AREA DESCRIPTION

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

Section C Copy No. (e.g. A): 
(complete only when appropriate)

2. GRADIENT OF THE SITE

Indicate the general gradient of the sites.

<table>
<thead>
<tr>
<th>Alternative S1:</th>
</tr>
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</table>

2. LOCATION IN LANDSCAPE

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

<table>
<thead>
<tr>
<th>Alternative S1:</th>
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<tbody>
<tr>
<td>Ridgeline</td>
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<td>Ridgeline</td>
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</table>

3. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

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

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

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

If YES, please complete:

<table>
<thead>
<tr>
<th>Name of the specialist:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualification(s) of the specialist:</td>
</tr>
<tr>
<td>Postal address:</td>
</tr>
<tr>
<td>Telephone:</td>
</tr>
<tr>
<td>E-mail:</td>
</tr>
<tr>
<td>Cell:</td>
</tr>
<tr>
<td>Fax:</td>
</tr>
</tbody>
</table>

Are any further specialist studies recommended by the specialist? YES | NO

If YES, specify: 

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
</table>
BASIC ASSESSMENT REPORT

4. GROUNDCOVER

Tick the types of groundcover present on the site.

Alternative S1:

<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 "●" 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. Has a specialist been consulted? YES NO

If YES, please complete the following:

Name of the specialist: ____________________________
Qualification(s) of the specialist: ____________________________
Postal address: ____________________________
Postal code: ____________________________
Telephone: ____________________________
E-mail: ____________________________
Cell: ____________________________
Fax: ____________________________

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites? YES NO

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on any of the alternative sites? YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

Signature of specialist: ____________________________
Date: ____________________________

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

Alternative S2:

<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>N/A</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 "●" 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. Has a specialist been consulted? YES NO

If YES, please complete the following:

Name of the specialist: ____________________________
Qualification(s) of the specialist: ____________________________
Postal address: ____________________________
Postal code: ____________________________
Telephone: ____________________________
E-mail: ____________________________
Cell: ____________________________
Fax: ____________________________

Are there any rare or endangered flora or fauna species (including red data species) present on any of the alternative sites? YES NO

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on any of the alternative sites? YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

Signature of specialist: ____________________________
Date: ____________________________

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).
5. LAND USE CHARACTER OF SURROUNDING AREA

Black out land uses and/or prominent features that does not currently occur within a 500m radius of the site

Alternative S1:

<table>
<thead>
<tr>
<th>Natural area</th>
<th>Low density residential</th>
<th>Medium density residential</th>
<th>High density residential</th>
<th>Informal residential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retail</td>
<td>Commercial &amp; warehousing</td>
<td>Light industrial</td>
<td>Medium industrial</td>
<td>Heavy industrial</td>
</tr>
<tr>
<td>Power station</td>
<td>Office/consulting room</td>
<td>Military or police</td>
<td>Casino/entertainment</td>
<td>Hospital facility</td>
</tr>
<tr>
<td>Open cast mine</td>
<td>Underground mine</td>
<td>base/station/compound</td>
<td>complex</td>
<td>Dam or reservoir</td>
</tr>
<tr>
<td>Hospital/medical center</td>
<td>School</td>
<td>Spoil heap or slimes dam</td>
<td>Quarry, sand or borrow pit</td>
<td>Old age home</td>
</tr>
<tr>
<td>Sewage treatment plant</td>
<td>Train station or shunting yard</td>
<td>Tertiary education facility</td>
<td>Church</td>
<td>Airport</td>
</tr>
<tr>
<td>Harbour</td>
<td>Sport facilities</td>
<td>Railway line</td>
<td>Major road (4 lanes or more)</td>
<td>Filling station</td>
</tr>
<tr>
<td>Landfill or waste treatment site</td>
<td>Plantation</td>
<td>Agriculture</td>
<td>River, stream or wetland</td>
<td>Nature conservation area</td>
</tr>
<tr>
<td>Mountain, koppie or ridge</td>
<td>Museum</td>
<td>Historical building</td>
<td>Graveyard</td>
<td>Archeological site</td>
</tr>
<tr>
<td>Other land uses (describe):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

If any of the boxes marked with an "N" are ticked, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted? YES  NO

If YES, please complete the following:

Name of the specialist:
Qualification(s) of the specialist:
Postal address:
Postal code:
Telephone:
E-mail:
Cell:
Fax:

If any of the boxes marked with an "N" are ticked, please consult an appropriate specialist to assist in the completion of this section.

Has a specialist been consulted? YES  NO

If YES, please complete the following:

Name of the specialist:
Qualification(s) of the specialist:
Postal address:
Postal code:
Telephone:
E-mail:
Cell:
Fax:  

Signature of specialist:  Date:  

The location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).
BASIC ASSESSMENT REPORT

Will the ambient noise level have a negative impact on the proposed activity?  □ YES □ NO
If YES, specify and explain:

Are any further specialist or studies recommended by the specialist?  □ YES □ NO
If YES, specify:

If YES, is such a report(s) attached?  □ YES □ NO

Signature of specialist: __________________________ Date: __________________________

If any of the boxes marked with an "A" are ticked, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted?  □ YES □ NO

Name of the specialist:
Qualification(s) of the specialist:
Postal address:
Postal code:
Telephone: __________________________  Cell: __________________________  Fax: __________________________

Will the ambient air pollution level have a negative impact on the proposed activity?  □ YES □ NO
If YES, specify and explain:

Are any further specialist studies recommended by the specialist?  □ YES □ NO
If YES, specify:

If YES, is such a report(s) attached?  □ YES □ NO

Signature of specialist: __________________________ Date: __________________________

If any of the boxes marked with an "H" are ticked, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted?  □ YES □ NO

Name of the specialist:
Qualification(s) of the specialist:
Postal address:
Postal code:
Telephone: __________________________  Cell: __________________________  Fax: __________________________

Will the surrounding land use pose any unacceptable health risk on the proposed activity?  □ YES □ NO
If YES, specify and explain:

Are any further specialist studies recommended by the specialist?  □ YES □ NO
If YES, specify:

If YES, is such a report(s) attached?  □ YES □ NO

Signature of specialist: __________________________ Date: __________________________

Alternative S2:

<table>
<thead>
<tr>
<th>Natural area</th>
<th>Low density residential</th>
<th>Medium density residential</th>
<th>High density residential</th>
<th>Informal residential A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retail</td>
<td>Commercial &amp; warehousing</td>
<td>Light industrial</td>
<td>Medium industrial A</td>
<td>Heavy industrial A</td>
</tr>
<tr>
<td>Power station</td>
<td>Office/consulting room</td>
<td>Military or police base/station/compound</td>
<td>Casino/entertainment complex</td>
<td>Hospitality facility</td>
</tr>
<tr>
<td>Open cast mine</td>
<td>Underground mine</td>
<td>Spoil heap or slimes dam A</td>
<td>Quarry, sand or borrow pit</td>
<td>Dam or reservoir</td>
</tr>
<tr>
<td>Hospital/medical center</td>
<td>School</td>
<td>Tertiary education facility</td>
<td>Church</td>
<td>Old age home</td>
</tr>
<tr>
<td>Sewage treatment plant A</td>
<td>Train station or shunting yard</td>
<td>Railway line A</td>
<td>Major road (4 lanes or more) A</td>
<td>Airport A</td>
</tr>
<tr>
<td>Harbour</td>
<td>Sport facilities</td>
<td>Golf course</td>
<td>Polo fields</td>
<td>Filling station A</td>
</tr>
<tr>
<td>Landfill or waste treatment site A</td>
<td>Plantation</td>
<td>Agriculture</td>
<td>River, stream or wetland</td>
<td>Nature conservation area</td>
</tr>
<tr>
<td>Mountain, koppie or ridge</td>
<td>Museum</td>
<td>Historical building</td>
<td>Graveyard</td>
<td>Archeological site</td>
</tr>
<tr>
<td>Other land uses (describe):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BASIC ASSESSMENT REPORT

If any of the boxes marked with an "N" are ticked, please consult an appropriate noise specialist to assist in the completion of this section. Has a specialist been consulted? YES NO

Name of the specialist: 
Qualification(s) of the specialist: 
Postal address: 
Postal code: 
Telephone: 
E-mail: 
Cell: 
Fax: 

Will the ambient noise level have a negative impact on the proposed activity? YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

Signature of specialist: __________________________ Date: __________________

If any of the boxes marked with an "A" are ticked, please consult an appropriate air quality specialist to assist in the completion of this section. Has a specialist been consulted? YES NO

Name of the specialist: 
Qualification(s) of the specialist: 
Postal address: 
Postal code: 
Telephone: 
E-mail: 
Cell: 
Fax: 

Will the ambient air pollution level have a negative impact on the proposed activity? YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

Signature of specialist: __________________________ Date: __________________

If any of the boxes marked with an "H" are ticked, please consult an appropriate health assessment specialist to assist in the completion of this section. Has a specialist been consulted? YES NO

Name of the specialist: 
Qualification(s) of the specialist: 
Postal address: 
Postal code: 
Telephone: 
E-mail: 
Cell: 
Fax: 

Will the surrounding land use pose any unacceptable health risk on the proposed activity? YES NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? YES NO

If YES, specify:

If YES, is such a report(s) attached? YES NO

Signature of specialist: __________________________ Date: __________________

Alternative S3:

<table>
<thead>
<tr>
<th>Natural area</th>
<th>Low density residential</th>
<th>Medium density residential</th>
<th>High density residential</th>
<th>Informal residential</th>
<th>Informational S3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retail</td>
<td>Commercial &amp; warehousing</td>
<td>Light industrial</td>
<td>Medium industrial¹⁸</td>
<td>Heavy industrial²⁰</td>
<td></td>
</tr>
<tr>
<td>Power station¹</td>
<td>Office/consulting room</td>
<td>Military or police base/station/compound</td>
<td>Casino/entertainment complex</td>
<td>Hospitality facility</td>
<td></td>
</tr>
<tr>
<td>Open cast mine</td>
<td>Underground mine</td>
<td>Spill heap or slimes dam¹</td>
<td>Quarry, sand or borrow pit</td>
<td>Dam or reservoir</td>
<td></td>
</tr>
<tr>
<td>Hospital/medical center</td>
<td>School</td>
<td>Tertiary education facility</td>
<td>Church</td>
<td>Old age home</td>
<td></td>
</tr>
<tr>
<td>Sewage treatment plant¹</td>
<td>Train station or shunting yard¹¹</td>
<td>Railway line¹⁹</td>
<td>Major road (4 lanes or more)²¹</td>
<td>Airport³²</td>
<td></td>
</tr>
<tr>
<td>Harbour</td>
<td>Sport facilities</td>
<td>Golf course</td>
<td>Polo fields</td>
<td>Filling station³²</td>
<td></td>
</tr>
</tbody>
</table>

¹ Including noise and air pollution assessments for the proposed activity.² Including health assessments for the proposed activity.
Landfill or waste treatment site

Plantation

Agriculture

River, stream or wetland

Nature conservation area

Mountain, koppie or ridge

Museum

Historical building

Graveyard

Archeological site

Other land uses (describe):

If any of the boxes marked with an "N" are ticked, please consult an appropriate noise specialist to assist in the completion of this section.

Has a specialist been consulted? NO

If YES, please complete the following:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:  Fax:

E-mail:  Cell:

Will the ambient noise level have a negative impact on the proposed activity? NO

If YES, specify:

Are any further specialist studies recommended by the specialist? NO

If YES, specify:

If YES, is such a report(s) attached? NO

Signature of specialist:  Date:

If any of the boxes marked with an "A" are ticked, please consult an appropriate air quality specialist to assist in the completion of this section.

Has a specialist been consulted? NO

If YES, please complete the following:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:  Fax:

E-mail:  Cell:

Will the ambient air pollution level have a negative impact on the proposed activity? NO

If YES, specify:

Are any further specialist studies recommended by the specialist? NO

If YES, specify:

If YES, is such a report(s) attached? NO

Signature of specialist:  Date:

If any of the boxes marked with an "H" are ticked, please consult an appropriate health assessment specialist to assist in the completion of this section.

Has a specialist been consulted? NO

If YES, please complete the following:

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:  Fax:

E-mail:  Cell:

Will the surrounding land use pose any unacceptable health risk on the proposed activity? NO

If YES, specify and explain:

Are any further specialist studies recommended by the specialist? NO

If YES, specify:

If YES, is such a report(s) attached? NO

Signature of specialist:  Date:

6. CULTURAL/HISTORICAL FEATURES

Alternative S1

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 palaeontological sites, on or close (within 20m) to the site? NO
### Basic Assessment Report

If YES, explain:

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

**Briefly explain the findings of the specialist:**

The Basic Heritage Assessment indicated that there was no evidence of the existence or presence of archaeological materials on the project site (See Appendix D).

<table>
<thead>
<tr>
<th>Will any building or structure older than 60 years be affected in any way?</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?</td>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

**Alternative S2**

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 palaeontological sites, on or close (within 20m) to the site?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Uncertain</th>
</tr>
</thead>
</table>

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

**Briefly explain the findings of the specialist:**

<table>
<thead>
<tr>
<th>Will any building or structure older than 60 years be affected in any way?</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?</td>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.

**Alternative S3**

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 palaeontological sites, on or close (within 20m) to the site?

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
<th>Uncertain</th>
</tr>
</thead>
</table>

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

**Briefly explain the findings of the specialist:**

<table>
<thead>
<tr>
<th>Will any building or structure older than 60 years be affected in any way?</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999 (Act 25 of 1999)?</td>
<td>YES</td>
<td>NO</td>
</tr>
</tbody>
</table>

If yes, please submit or, make sure that the applicant or a specialist submits the necessary application to SAHRA or the relevant provincial heritage agency and attach proof thereof to this application if such application has been made.
SECTION D: PUBLIC PARTICIPATION

1. ADVERTISEMENT

The environmental assessment practitioner must follow any relevant guidelines adopted by the competent authority in respect of public participation and must at least—

1(a) Fix a notice in a conspicuous place, on the property where it is intended to undertake the activity which states that an application will be submitted to the competent authority in terms of these regulations and which provides information on the proposed nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations on the application may be made.

1(b) inform landowners and occupiers of adjacent land of the applicant’s intention to submit an application to the competent authority

1(c) inform landowners and occupiers of land within 100 metres of the boundary of the property where it is proposed to undertake the activity and whom may be directly affected by the proposed activity of the applicant’s intention to submit an application to the competent authority;

1(d) inform the ward councillor and any organisation that represents the community in the area of the applicant’s intention to submit an application to the competent authority;

1(e) inform the municipality which has jurisdiction over the area in which the proposed activity will be undertaken of the applicant’s intention to submit an application to the competent authority; and

1(f) inform any organ of state that may have jurisdiction over any aspect of the activity of the applicant’s intention to submit an application to the competent authority; and

1(g) place a notice in one local newspaper and any Gazette that is published specifically for the purpose of providing notice to the public of applications made in terms of these regulations.

2. CONTENT OF ADVERTISEMENTS AND NOTICES

Advertisements and notices must indicate that an application will be submitted to the competent authority in terms of the EIA regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made;

3. PLACEMENT OF ADVERTISEMENTS AND NOTICES

Where the proposed activity may have impacts that extend beyond the municipal area where it is located, a notice must be placed in at least one provincial newspaper or national newspaper, indicating that an application will be submitted to the competent authority in terms of these regulations, the nature and location of the activity, where further information on the proposed activity can be obtained and the manner in which representations in respect of the application can be made, unless a notice has been placed in any Gazette that is published specifically for the purpose of providing notice to the public of applications made in terms of the EIA regulations.

Advertisements and notices must make provision for site alternatives where appropriate.

4. DETERMINATION OF APPROPRIATE MEASURES

The practitioner must ensure that the public participation is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees, ratepayers associations and traditional authorities where appropriate. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was inadequate.

5. COMMENTS AND RESPONSE REPORT

The practitioner must record all comments and respond to each comment of the public before the application 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 this application. The comments and response report must be attached under Appendix E.

6. LOCAL AUTHORITY PARTICIPATION

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least 30 (thirty) calendar days before the submission of the application.

Has any comment been received from the local authority?  

[ ] YES  [ ] NO

If “YES”, briefly describe the feedback below (also attach any correspondence to and from the local authority to this application):
7. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the site or property, such as servitude holders and service providers, should be informed of the application at least 30 (thirty) calendar days before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

The site advert and the newspaper advert invited stakeholders to register as interested and affected parties so as to: (i) develop a stakeholder database; (ii) ensure that stakeholders are informed about the proposed development; (iii) ensure that stakeholders participate in the project, etc.

It should be noted that there is only one surrounding and/or adjacent landowner, near the proposed site. The nearest surrounding or adjacent landowner is ±1km from the project site. A notification letter was distributed to the surrounding adjacent landowner (see Appendix E-3).

An EIA notice of intent, a letter to the Municipal Manager, together with the newspaper advert were submitted to the local authority, i.e. Inxuba Yethemba Local Municipality (see Appendix E-4). A newspaper advertisement was placed in a local newspaper (Midland News), and a site notice was placed on the entrance (gate) into the Iziko Capacitor Bank Station site (See Appendix E-1 & E-2, respectively).

There were no comments received from stakeholders.

If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2006, 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. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

List the issues raised by interested and affected parties.

<table>
<thead>
<tr>
<th>No issues were raised by interested and affected parties. Hence, no Comments and Response Report is attached to this report.</th>
</tr>
</thead>
</table>

Response from the practitioner to the issues raised by the interested and affected parties (A full response must be given in the Comments and Response Report that must be attached to this report):

2. IMPACTS THAT MAY RESULT FROM THE PLANNING AND DESIGN PHASE

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase, including impacts relating to the choice of site alternatives.

**Alternative S1 (preferred alternative)**

<table>
<thead>
<tr>
<th>Direct impacts:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>o None expected. The construction site may be demarcated, but this is not expected to be associated with any impacts.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Indirect impacts:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>o None expected</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cumulative impacts:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>o None expected</td>
<td></td>
</tr>
</tbody>
</table>

**Alternative S2**

<table>
<thead>
<tr>
<th>Direct impacts:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Indirect impacts:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Cumulative impacts:</th>
<th></th>
</tr>
</thead>
</table>

**Alternative S3 Not Applicable**

<table>
<thead>
<tr>
<th>Direct impacts:</th>
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</table>

<table>
<thead>
<tr>
<th>Indirect impacts:</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Cumulative impacts:</th>
<th></th>
</tr>
</thead>
</table>

**No-go alternative (compulsory)**

No impacts are expected, the status quo on the site will remain.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<table>
<thead>
<tr>
<th>Alternative S1</th>
<th>Alternative S2</th>
<th>Alternative S3</th>
</tr>
</thead>
<tbody>
<tr>
<td>o An Environmental Control Officer must be appointed</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>o Environmental awareness training for construction staff, concerning the prevention of accidental spillage of hazardous chemicals and oil, as well as pollution of water resources (both surface and groundwater), air pollution and litter control.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o Project manager shall ensure that the training and capabilities of the Contractor’s site staff are adequate to carry out the designated tasks.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o Before construction begins, all areas to be developed must be clearly demarcated with fencing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o The contractor must ensure compliance with conditions described in the Record of Decision</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- A system of record-keeping must be established. This would include records of compliance / noncompliance with the conditions of the authorisation and, records of all material environmental incidents that must be kept and be available to DEAT on request.
- Confirm suitable sites for the construction camp (equipment and batching etc) and storage areas for materials, as well as site offices.
- All construction equipment must be stored at the Technical Services storage area and all associated oil changes etc (no servicing) must take place within this area.
- Staff operating equipment (such as excavators, loaders, etc.) shall be adequately trained and sensitised to any potential hazards associated with their tasks.
- The surrounding land owner must be informed of the starting date of construction as well as the phases in which the construction shall take place.
- It is recommended that signage explaining the nature of the proposed development, timeframes involved, the nature of potential disruption to the surrounding land owner, and contact details of a liaison official or environmental control officer must be placed at a key public area such as the entrance (gate) into the Capacitor Bank Station.
- A complaints and stakeholder feedback system must be set up to address any complaints from the surrounding land owner should they be affected by the proposed construction activities.
- Adequate planning of the construction programme to allow for disruptions due to rain and very wet conditions.
- All man-made as well as natural structures within 50m of the boundary of the site shall be materially protected against construction related damage at all times and any such damage shall be rectified reasonably.

<table>
<thead>
<tr>
<th>List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the planning and design phase:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alternative A1 (preferred alternative)</strong></td>
</tr>
</tbody>
</table>

### Direct impacts:
- Directions for the various directional antennas should be taken into consideration during the design phase.
- Wind drag on each element of the array and dependent on wind direction.
- The overall layout of the appropriate structure, i.e. size, weight and disposition of all feeders and cables should be clearly defined to fit in with the receiving environment.
- The need for all-weather access to some of the aerials should be investigated to ensure that the structure can withstand the climatic conditions of the site.
- Besides the known antenna and aerial configuration, the possible future extension should be defined.
- Atmospheric ice formation on the structure and aerials and its likelihood to occur with high wind should be investigated.
- Wind drag of the structure itself without ice and with ice if feasible should be investigated.
- The overall cost of land, foundations and structure may affect the design of the mast.
- Any special planning considerations imposed by statutory bodies should be considered during the design phase.
- The aesthetic appearance of the structure should be aligned with the existing environment.

### Indirect impacts:
- The cost and implications of future maintenance or structural replacement.
- The available ground area and access to the site.
- The geological nature of the site.
- The degree of security required.

### Cumulative impacts:
- None expected
As the predominant loading of towers and masts is nearly always the

Nuisance issues related to maintenance activities such as noise telecommunication mast to be installed at the Hydra-Poseidon 400kV Iziko Capacitor Bank Station, which is not

The no-go option would mean to “do nothing”, which will mean not to plan and design the proposed telecommunication mast / radio tower is part of the major communication and protection network system for the power supply to the Southern Grid and it is required for communication purposes to ensure sustainable power to all Eskom’s consumers.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

- The visual impact should be minimized through colour, materials, design and landscaping.
- The towers and masts should be analyzed for the dynamic response of the structure to the wind.
- Nuisance issues related to maintenance activities such as noise generated by telecommunications equipment and interference should be minimized as far as possible.
- Future maintenance or structural replacement of the telecommunications equipment should be as economical as possible.
- As the predominant loading of towers and masts is nearly always the wind load, it is important to calculate the wind resistance of the structure, including its ancillaries such as ladders and platforms, aerials and associated feeders and cables as accurately as possible.
- It is important to minimize the wind resistance of the telecommunication mast structure, i.e. a triangular cross-section of the mast instead of a square cross-section also reduces the wind resistance.

3. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION PHASE

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the construction phase:

Alternative S1 (preferred alternative)

Direct impacts:

- There are no construction related impacts anticipated, as there will be no removal of any vegetation or habitat disturbance of any fauna species next to the control room, because the proposed project site was cleared during the construction of the Capacitor Bank Station.
- During construction of the proposed project, additional energy will be consumed, resulting in a direct short-term increased demand on this resource.
Direct impacts:
Noise
- Short-term impacts from increased noise levels will occur during the construction of the proposed project.

Visual Environment
- The movement of construction vehicles through the construction site may be associated with a visual impact.

Traffic and Access
- Construction vehicles may cause dust if regular dampening down of exposed surfaces does not take place.
- If construction vehicles are not maintained it may lead to contamination and unnecessary noise.
- If delivery of equipment and materials are not planned carefully it may lead to a visual and noise impacts.

Cumulative impacts:
Soil and Geology
- Spillage of fuel or oil leaks from construction vehicles may result in the contamination of soil and groundwater.
- Care should be taken not to contaminate topsoil in cases of negligent fuel storage and cement mixing.

Stormwater
- Stormwater may carry pollutants to other parts of the site if not carefully controlled.

Air Quality
- Short-term negative impacts on the air quality will occur from heavy equipment, dust and exhaust fumes during construction.

Indirect impacts:

Construction Traffic
- The delivery of construction equipment and materials might pose safety problems if it is not strictly controlled.

Access and Security
- If construction staff access is not strictly controlled it may lead to safety concerns within the Substation.

Cumulative impacts:

Water Resource Issues
- Water used on the construction site for human consumption and construction activities such as dampening down may lead to extra demands on the water source, i.e. water will imported from the nearest town.

Waste management
- The creation of extra construction waste may result in extra impacts on the waste collection and disposal system in the Capacitor Bank Station.

Noise, Visual environment and Nuisance
- The construction activities will likely add to the negative impact in terms of noise, visual environment and nuisance value within the study area.

Alternative S2
Direct impacts:

Indirect impacts:

Cumulative impacts:
### Alternative S3

#### Direct impacts:

#### Indirect impacts:

#### Cumulative impacts:

**No-go alternative (compulsory)**

No negative impacts are foreseen for the no-go alternative, as negative impacts associated with construction activities would not occur. However Eskom will not be able to ensure sustainable power to all its consumers.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<table>
<thead>
<tr>
<th>Alternative S1</th>
<th>Alternative S2</th>
<th>Alternative S3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Soil and Geology</strong></td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
| **Fuel storage** | o Topsoil and subsoil to be protected from contamination.  
  o Fuel and material storage must be away from stockpiles.  
  o Contaminated soil must be contained and disposed off site at a licensed landfill site. | |
| **Earthworks** | o All earthworks must be adequately controlled and managed.  
  o Any excavations must be clearly marked and demarcated. | |
| **Groundwater** | o Facilities for the collection and disposal of waste on the site should occur in sealed surfaces which would ensure that there is no waste entering the soil profile. | |
| **Hydrology and Stormwater** | o The site must be managed in order to prevent pollution of drains, watercourses or groundwater, due to suspended solids, silt or chemical pollutants.  
  o Silt fences should be used to prevent any silt entering the stormwater drains, insofar as possible. This measure must be installed on all parts of the site.  
  o Promote water saving mind set with construction workers in order to ensure less water wastage.  
  o The installation of the stormwater system must take place as soon as possible to attenuate stormwater from the construction phase as well as the operation phase.  
  o Grids / Litter traps should be placed at the entry point to drains and should be cleaned on a regular basis. | |
| **Air Quality** | **Dust control** | |
| o Damping down of un-surfaced and un-vegetated areas, taking water saving into account.  
  o Excavations and other clearing activities must only be done during agreed working times and permitting weather conditions to avoid drifting of sand and dust into adjacent areas of the Capacitor Bank Station.  
  o The Contractor shall be responsible for dust control on site to ensure no nuisance is caused for sensitive receptors.  
  o Any complaints or claims emanating from the lack of dust control shall be attended to immediately by the Contractor and ECO. | |
### Noise
- **SANS 10103** and the National Noise Control Regulations should be used as the main guidelines for addressing the potential noise impact on this project.
- With regard to unavoidable very noisy construction activities in the vicinity of noise sensitive areas, these should be screened off with acoustic screens, where possible. If no acoustic screening is used during exceptionally noisy construction times, prior warning to the surrounding landowner would be extremely important.
- As construction workers operate in a very noisy environment, it must be ensured that their working conditions comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993). Where necessary, ear protection gear should be worn.
- Ambient noise levels must not exceed within reason the acceptable standards for a suburban residential district as mentioned above or at most must not exceed the levels for an urban residential district, namely 55dBA during the day and 45dBA during the night, except in exceptional circumstances and then properly controlled under the guidance of the ECO.
- Noisy operations should be combined so that they occur where possible at the same time.
- Loitering from construction workers will not be tolerated. Noise from workers must be strictly controlled.

### Flora
#### Existing vegetation
- No vegetation must be used for firewood.
- Construction site office and laydown areas must be clearly demarcated and no encroachment must occur beyond demarcated areas.

#### Exotic vegetation
- All exotic vegetation must be removed from site.
- The contractor should be responsible for implementing a programme of weed control, particularly in areas where soil has been disturbed, and grassing of any remaining stockpiles to prevent weed invasion.
- The spread of exotic species occurring throughout the site should be controlled.

### Fauna
- Capture or snaring of fauna should be strictly prohibited on site. Anyone found engaged in this activity should be disciplined or prosecuted.
- The contractor as well as his construction workers must be sympathetic towards any fauna present on site.

### Waste Management
- Care should be taken not to dump waste indiscriminately as this could have a negative impact on the ecosystem.

#### Construction rubble
- All rubble from construction activities must either be used on site as part of the existing development, or must be placed within a skip bin for regular removal and disposed off at a registered landfill site.

#### Litter management
- Refuse bins must be placed at strategic positions to ensure that litter does not accumulate within the construction site.
- A housekeeping team should be appointed to regularly maintain the litter and rubble situation on the construction site.
- Waste disposal will need to take place in terms of Section 20 of the
Environment Conservation Act (Act No. 73 of 1989).
- Littering by the employees of the Contractor shall not be allowed under any circumstances. The ECO shall monitor the neatness of the construction site.

Construction equipment safety
- All equipment used for construction, including drills, must be in good working order with up to date maintenance records.

Security
- The site should be fenced for the duration of construction.
- Labour should be transported to and from the site to discourage loitering in adjacent areas and possible increase in crime or disturbance. No construction staff at all should be allowed to stay on the construction site.

Visual Impact
- Construction traffic must stick to designated routes leading to the site.
- The site shall be kept visually and aesthetically pleasing, especially in and around the construction camp.
- The ECO shall regularly inspect the site to ensure that it is neat and clean.

Construction
- Only designated areas must be used for storage of construction materials, soil stockpiles, machinery and other equipment.
- Specific areas must be designated for cement batching plants. Sufficient drainage for these plants must be in place to ensure that soils do not become contaminated.
- The construction site must be kept clear of litter at all times.
- Food preparation areas should not be on the site. Food should be prepared off-site and brought to the construction workers at meal times.
- No washing or servicing of vehicles should be done on site.
- Construction activities are to be contained to reasonable hours during the day. No night-time construction activities (after 18h00) should be allowed. No construction should be allowed on weekends from 14h00 on Saturday afternoons to the following Monday (before 06h00).
- Spillages within the construction camp need to be cleaned up immediately and disposed of in the hazardous skip bin.
- Labourers should not be housed on the construction site.

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the construction phase:

**Alternative A1 (preferred alternative)**

**Direct impacts:**

**Noise**
- Short-term impacts from increased noise levels will occur during the construction of the telecommunication mast.

**Visual Environment**
- The construction of the telecommunication mast will not cause adverse visual impacts on the landscape, as it is being constructed within an existing Capacitor Bank Station.

**Traffic and Access**
- Construction vehicles may cause dust if regular dampening down of exposed surfaces does not take place.
- If construction vehicles are not maintained it may lead to contamination and unnecessary noise.
- If delivery of equipment and materials are not planned carefully it may lead to a visual and noise impacts.

**Soil and Geology**
- Spillage of fuel or oil leaks from construction vehicles may result in the contamination of soil and groundwater.
- Care should be taken not to contaminate topsoil in cases of negligent fuel storage and cement mixing.

**Air Quality**
- Short-term negative impacts on the air quality will occur from heavy equipment, dust and exhaust fumes during construction.

**Indirect impacts:**

**Construction traffic**
- The delivery of construction equipment and materials might pose safety problems if it is not strictly controlled.

**Access and Security**
- If construction staff access is not strictly controlled it may lead to safety concerns within the Substation.

**Cumulative impacts:**
The proposed 15m telecommunication mast will be installed next to the control room of the Iziko Capacitor Bank station which is far from the surrounding landowner, and the road (i.e. N9 towards Cradock). The mast will be constructed within an existing substation that has electricity pylons, as well as the steelworks of the substation. There are no other masts within the vicinity of the Iziko Capacitor Bank station, therefore the proposed mast will not cause or have any cumulative impacts.

**Alternative A2**

**Direct impacts:**

**Cumulative impacts:**

**Alternative A3**

**Direct impacts:**

**Cumulative impacts:**

**No-go alternative (compulsory)**
The no-go option would mean to “do nothing”, i.e. is the option of not installing the proposed telecommunication mast at the Hydra-Poseidon 400kV Iziko Capacitor Bank Station, which is not an option favoured by the proponent/applicant, Eskom Holdings Limited (Transmission), because the proposed telecommunication mast / radio tower is part of the major communication and protection network system for the power supply to the Southern Grid.

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>o The visual impact should be minimized through colour, materials, design and landscaping.</strong></td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Air Quality</th>
<th>Alternative A1:</th>
<th>Alternative A2:</th>
<th>Alternative A3:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
### Dust control
- Damping down of un-surfaced and un-vegetated areas, taking water saving into account.
- Excavations and other clearing activities must only be done during agreed working times and permitting weather conditions to avoid drifting of sand and dust into adjacent areas of the Capacitor Bank Station.
- The Contractor shall be responsible for dust control on site to ensure no nuisance is caused for sensitive receptors.
- Any complaints or claims emanating from the lack of dust control shall be attended to immediately by the Contractor and ECO.

### Construction equipment safety
- All equipment used for construction, including drills, must be in good working order with up to date maintenance records.

### Construction
- Only designated areas must be used for storage of construction materials, soil stockpiles, machinery and other equipment.
- Specific areas must be designated for cement batching plants. Sufficient drainage for these plants must be in place to ensure that soils do not become contaminated.
- Spillages within the construction camp need to be cleaned up immediately and disposed of in the hazardous skip bin.
- Labourers should not be housed on the construction site.

## 4. IMPACTS THAT MAY RESULT FROM THE OPERATIONAL PHASE

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the operational phase:

### Alternative S1 (preferred alternative)

#### Direct impacts:
- The visual impact on the landscape will be minimal, as the proposed telecommunication mast will blend in with the steelworks of the existing Capacitor Bank Station, as well as the electricity pylons within the station.
- The maintenance vehicles may cause minimal noise during regular maintenance of the telecommunication mast equipment.
- There will be a constant power supply to the Southern Grid.
- Incorrectly stored waste may lead to contamination of underground water and odours.
- There will be a constant power supply within the Southern Grid.
- Possible contamination of groundwater during the on-going maintenance of the telecommunication system equipment if the equipment and machinery are not handled and disposed of carefully and properly.
- Soil and groundwater contamination may occur if the proposed telecommunication mast will have a diesel fired generator as back-up electricity supply, i.e. the diesel for the generator is often stored in bulk storage tanks, therefore any spillages or leakages from the tank may result in soil and groundwater contamination.

#### Indirect impacts:
- There will be no revenue generated from the energy sales to the Nelson Mandela Bay Municipality and the Coega Development Company in the Coega Industrial Development Zone due to the additional energy transfer created by the series capacitor that cannot be commissioned and operated without the proposed microwave tower.

#### Cumulative impacts:
- None expected.
Waste produced on site should be properly stored and collected on an ongoing basis.

**Tank integrity testing**, the provision of secondary containment, fill and leak prevention procedures and good housekeeping practices should be undertaken and implemented to minimise the risk of spills and leakages from the diesel tanks to prevent soil and groundwater contamination.

**Regular maintenance** should be done during specific hours, i.e. not between 06h00 and 08h00 weekdays and before 08h00 and after 14h00 on week-ends.

- Waste produced on site should be properly stored and collected on a regular basis to ensure that it does not produce odours.
- Installation of the proposed telecommunication mast to ensure constant and continuous power supply to the Southern Grid.

Not Applicable

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<table>
<thead>
<tr>
<th>Alternative S1</th>
<th>Alternative S2</th>
<th>Alternative S3</th>
</tr>
</thead>
<tbody>
<tr>
<td>The visual impact on the landscape should be minimised by ensuring that the proposed telecommunication mast blends in with the steelworks of the existing Capacitor Bank Station, as well as the electricity pylons within the station.</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Tank integrity testing, the provision of secondary containment, fill and leak prevention procedures and good housekeeping practices should be undertaken and implemented to minimise the risk of spills and leakages from the diesel tanks to prevent soil and groundwater contamination.</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Regular maintenance should be done during specific hours, i.e. not between 06h00 and 08h00 weekdays and before 08h00 and after 14h00 on week-ends.</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Waste produced on site should be properly stored and collected on a regular basis to ensure that it does not produce odours.</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Installation of the proposed telecommunication mast to ensure constant and continuous power supply to the Southern Grid.</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the operational phase:

**Alternative A1 (preferred alternative)**

**Direct impacts:**
- Possible collision of birds with the communication tower.
- Nuisance issues, e.g. noise generated by telecommunication equipment and interference, related to maintenance activities.
- Revenue from the energy sales to the Nelson Mandela Bay Municipality and the Coega Development...
Company in the Coega Industrial Development Zone due to the additional energy transfer created by the series capacitor that cannot be commissioned and operated without the proposed microwave tower.

**Indirect impacts:**
- There will be no revenue generated from the energy sales to the Nelson Mandela Bay Municipality and the Coega Development Company in the Coega Industrial Development Zone due to the additional energy transfer created by the series capacitor.
- The Capacitor Bank Station cannot be commissioned and operated without the proposed telecommunication mast.

**Cumulative impacts:**
- No energy supply to the Southern Grid.

---

**Alternative A1**

<table>
<thead>
<tr>
<th>Direct impacts:</th>
<th>Indirect impacts:</th>
<th>Cumulative impacts:</th>
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</thead>
<tbody>
<tr>
<td></td>
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**Alternative A2**

<table>
<thead>
<tr>
<th>Direct impacts:</th>
<th>Indirect impacts:</th>
<th>Cumulative impacts:</th>
</tr>
</thead>
<tbody>
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**Alternative A3**

<table>
<thead>
<tr>
<th>Direct impacts:</th>
<th>Indirect impacts:</th>
<th>Cumulative impacts:</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>

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**No-go alternative (compulsory)**

- The major network for the power supply within the Southern Grid will be disrupted.
- No Revenue will be earned from the energy sales to the Nelson Mandela Bay Municipality and the Coega Development Company in the Coega Industrial Development Zone due to the additional energy transfer created by the series capacitor that cannot be commissioned and operated without the proposed microwave tower.

---

Indicate mitigation measures that may eliminate or reduce the potential impacts listed above:

<table>
<thead>
<tr>
<th>Alternative A1</th>
<th>Alternative A2</th>
<th>Alternative A3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anti-collision devices should be installed on the proposed mast to minimise bird collisions.</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Bird collision with the communication tower should be monitored regularly.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank integrity testing, the provision of secondary containment, fill and leak prevention procedures and good housekeeping practices should be undertaken and implemented to minimise the risk of spills and leakages from the diesel tanks.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The proposed telecommunication mast should be installed to ensure that power is supplied to the Southern Grid, as the Series Capacitor, i.e. Iziko Capacitor Bank Station, cannot be commissioned and operated without the proposed telecommunication mast, which means there will be no transfer of additional energy required.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE

List the potential site alternative related impacts (as appropriate) that are likely to occur as a result of the decommissioning or closure phase:

**Alternative S1 (preferred alternative)**

The site will not be decommissioned.

**Alternative S2**

Direct impacts:

Indirect impacts:

Cumulative impacts:

**Alternative S3**

Direct impacts:

Indirect impacts:

Cumulative impacts:

**No-go alternative (compulsory)**

The site will not be decommissioned, therefore the status quo on the site, i.e., after the construction phase will remain.

List the potential activity/technology alternative related impacts (as appropriate) that are likely to occur as a result of the decommissioning and closure phase:

**Alternative A1 (preferred alternative)**

There will be no decommissioning of the proposed activity, as the proposed telecommunication mast is required as part of the electricity supply network within the Southern Grid.

**Alternative A2**

Direct impacts:

Indirect impacts:

Cumulative impacts:

**Alternative**

Direct impacts:

Indirect impacts:

Cumulative impacts:

**No-go alternative (compulsory)**

There will be no decommissioning of the proposed activity, as the proposed telecommunication mast is required as part of the electricity supply network within the Southern Grid. Therefore, the proposed activity status quo will remain.

6. PROPOSED MANAGEMENT OF IMPACTS AND MITIGATION

Indicate how identified impacts and mitigation will be monitored and/or audited.

<table>
<thead>
<tr>
<th>Alternative S1</th>
<th>Alternative S2</th>
<th>Alternative S3</th>
</tr>
</thead>
<tbody>
<tr>
<td>o The contractor must sign that he has read and understands the conditions of the Record of Decision (RoD).</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>o The Environmental Control Officer is responsible for the implementation of the conditions of the RoD during the construction phase, and liaison between the developer and the Contractor.</td>
<td></td>
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Following tasks will fall within his / her responsibilities:

- Be aware of the findings and conclusions of the Environmental Basic Assessment and the conditions stated within the Record of Decision.
- Be familiar with the recommendations and mitigation measures of the Basic Assessment Report (BAR).
- Educate the construction team about the management measures recommended in the BAR and Environmental Authorisation.
- Regular liaison with the construction team and the project leader.
- Responsible for keeping records of compliance as well as records of all environmental incidents and a complaints register.
- Recommend corrective action for any non-compliance incidents on the construction site.
- The contact numbers of the Contractor and the ECO shall be made available on-site to the affected parties / complainants. This will ensure open channels of communication and prompt response to queries and claims.
- A monitoring programme (if required) will be implemented for the duration of the construction phase of the project. This programme will include weekly audits during the construction phase conducted by the Environmental Control Officer, which are according to the conditions of the Environmental Authorisation. These audits can be conducted randomly and do not require prior arrangement with the project manager. This report will be submitted to the relevant authority (DEAT) if required.
- Proper and continuous liaison between developer, the Contractor and other stakeholders to ensure all parties are appropriately informed at all times.

### Alternative A1

- The proposed development should be in line with the existing environment, i.e. Capacitor Bank Station, to ensure minimal visual and aesthetic impacts.
- Installation of anti-collision devices as part of the proposed telecommunication mast to minimise bird collisions.
- A waste management system for general and hazardous waste which focuses on waste generated during maintenance related activities should be developed.
- Bulk storage of fuels, i.e. the condition of tanks, bunding, spill prevention procedures, etc., should be investigated and implemented.
- Investment in telecommunications technology that does not contain hazardous materials.
- Develop and implement procedures for dealing with nuisance complains from stakeholders.
- Develop and implement procedures for handling and storage of oils.
- Well developed procedures and practices for managing hazardous waste, i.e. for employees and contractors.

### Alternative A2

Not Applicable

### Alternative A3

Not Applicable

### 7. ENVIRONMENTAL IMPACT STATEMENT

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

**Alternative S1 (preferred alternative)**

All construction activities should be undertaken according to generally accepted environmental best practice, with care taken to destroy as little as possible the existing natural environment, and to minimise unnecessary disturbance on site.
The proposed site is preferred as it is located within an existing site that already has a transformed environment, i.e. the Hydra-Poseidon 400kV Iziko Capacitor Bank Station. An existing infrastructure footprint exists on the site of the development in the form of buildings, roads and other services. The installation of the proposed telecommunication mast will be in harmony with the surrounding buildings and required uses of the Hydra-Poseidon 400kV Iziko Capacitor Bank Station. The proposed telecommunication mast should be installed to ensure that Eskom meets its obligations by ensuring that power is supplied to the Southern Grid, as the Series Capacitor, i.e. Iziko Capacitor Bank Station, cannot be commissioned and operated without the proposed telecommunication mast, which means there will be no transfer of additional energy required within the Southern Grid.

Most of the negative impacts related to the construction of the proposed telecommunication mast are short-term and will be properly managed and mitigated as proposed in this report, as well as per the conditions of the RoD.

The proposed development is therefore supported from an environmental perspective as it is part of and located within an existing Capacitor Bank Station, i.e. an already transformed area, and thus it will not result in the creation of many new biophysical impacts and will not impact or interfere with any cultural or archaeological aspects of the area. The installation of the proposed telecommunication masts will not impact on the sense of place of the area, as it will blend in with the existing environment, i.e. the steelworks of the Capacitor Bank Station, as well as the electricity pylons.

All of the construction and operational phase impacts that could potentially arise due to the proposed development can be mitigated.

**Alternative S2**

**Alternative S3**

**Alternative A1 (preferred alternative)**

The proposed telecommunication mast should be installed to ensure that power is supplied to the Southern Grid, as the Series Capacitor, i.e. the existing Iziko Capacitor Bank Station, cannot be commissioned and operated without the proposed telecommunication mast, which means there will be no transfer of additional energy required, if the proposed mast is not installed.

The proposed telecommunication mast is part of the existing Hydra-Poseidon 400kV Iziko Capacitor Bank Station, and the station cannot be operated or commissioned without the proposed telecommunication mast. The proposed installation of the mast will not have any adverse impacts to the biophysical aspects of the site and will not change the aesthetic character of the site.

The proposed development is therefore supported from an environmental perspective as it is part of an existing Capacitor Bank Station in an already transformed area. The proposed telecommunication masts will blend in with the existing environment, i.e. the steelworks of the Capacitor Bank Station, as well as the electricity pylons.

The proposed telecommunication mast will ensure that there is constant power supply to the Southern Grid.

**Alternative A2**

**Alternative A3**

**No-go alternative (compulsory)**

The no-go option would mean to “do nothing”, i.e. is the option of not installing the proposed telecommunication mast at the Hydra-Poseidon 400kV Iziko Capacitor Bank Station, which is not an option favoured by the proponent/applicant, Eskom Holdings Limited (Transmission), because the proposed telecommunication mast / radio tower is part of the major communication network system for the power supply to the Southern Grid.

The proposed telecommunication mast should be installed to ensure that power is supplied to the Southern Grid.
Grid, as the Series Capacitor, i.e. the existing Iziko Capacitor Bank Station, cannot be commissioned and operated without the proposed telecommunication mast, which means there will be no transfer of additional energy required, if the proposed mast is not installed.

The proposed development is therefore supported from an environmental and socio-economic perspective as it is part of an existing Capacitor Bank Station in an already transformed area. The proposed telecommunication mast will blend in with the existing environment, i.e. the steelworks of the Capacitor Bank Station, as well as the electricity pylons and will be part of the Capacitor Bank Station that will transfer additional energy to the Eastern Cape, i.e. to the Nelson Mandela Bay Municipality and the Coega Development Company in the Coega Industrial Development Zone, as well as the Western Cape.

8. 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).

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:

There are no specific conditions that are recommended to be included in the authorisation that may be granted by the competent authority, other than specifying that the proposed mitigation measures, as well as all conditions stipulated in the authorisation (RoD) should be implemented and strictly adhered to.
SECTION F: APPENDICES
Appendix A- 1: Capacitor Bank Site
Appendix A-2: General Arrangement: Control and Store Buildings
Appendix B: Photographs

Photograph 1: Entrance into the Iziko Capacitor Bank Station Site

Photograph 2: The location for the installation of the 15m Telecommunication Mast, i.e. next to the Control Building
Photograph 3: Another view of the location for the installation of the 15m Telecommunication Mast, i.e. next to the Control Building

Photograph 4: Another view of the location for the installation of the 15m Telecommunication Mast, i.e. next to the Control Building

Proposed Installation Site
Photograph 5: Indicates the access road leading towards the entrance of the Iziko Capacitor Bank Station

Photograph 6: Indicates the surrounding area – Iziko Capacitor Bank Station Site
Appendix C: Facility illustration
Appendix D: Specialist report – Basic Heritage Assessment Report
Appendix E: Public Participation Documentation

Appendix E-1: Proof of Newspaper Advertisement
An EIA Notice was placed in the local newspaper, i.e. Midland News to provide notice to the public of the application made in terms of the EIA Regulations, informing stakeholders about the project, inviting interested and affected parties to take part and register on the database.
Appendix E-2: Proof of Site Notice
A site Notice was fixed at the entrance of the property where the proposed activity will be undertaken.

Photograph 7: Indicates a site notice placed on the gate/entrance to the Iziko Capacitor Bank Station

Photograph 8: Indicates a site notice placed on the gate/entrance to the Iziko Capacitor Bank Station
Appendix E-3: Letter to the Surrounding Landowners and Registration form

There are no landowners and occupiers of adjacent land within the 100m of the boundary of the property where the proposed activity will be undertaken. The only surrounding landowner nearest to the site is approximately 1km away.
Appendix E-4: Letter to the Local Authority
An EIA notice of intent, a letter to the Municipal Manager, together with the newspaper advert were submitted to the local authority, i.e. Inxuba Yethemba Local Municipality for review and comment.
Comments and responses report

Stakeholders and/or interested and affected parties did not provide any comments, raise issues and/or concerns with regards to the proposed project. No comments and response report was compiled.