



agriculture, rural development,
land & environmental affairs
MPUMALANGA PROVINCE
REPUBLIC OF SOUTH AFRICA

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Netesimondzawo

Departement van Landbou,
Landelike Ontwikkeling,
Grond en Ongewing Sake

umNyango weZelimo
UkuThuthukiswa kweNdawo zemaKhaya,
iNarha neeNdaba zeBhoduluko

Enquiries : Thokozile Sithole
Telephone : (013) 759 4128
Reference no. : 1/3/1/16/1E-149
NEAS No. : MPP/EIA/0000399/2018

City of Mbombela
PO Box 45
Nelspruit
1200

Attention: Mr Jaco Landsberg
Email : jaco.landsberg@mbombela.gov.za

Dear Sir,

ENVIRONMENTAL AUTHORISATION FOR ACTIVITIES LISTED IN GOVERNMENT NOTICE R983 AND R985 ASSOCIATED WITH THE CONSTRUCTION OF AN ELECTRICAL SUBSTATION ON A SITE IN RIVERSIDE PARK EXTENSIONS 27 AND 29, AND A 132KV POWER LINE ON THE REMAINING EXTENT OF PORTION 14 OF THE FARM BOSCHRAND 283 JT, PORTION 1 AND THE REMAINING EXTENT OF THE FARM RIVERSIDE 308 JT, AND ERVEN 7, 8, 10, 11 AND 29 OF MATAFFIN, CITY OF MBOMBELA

With reference to the abovementioned application, please be advised that the Department has decided to grant authorisation. The environmental authorisation and reasons for the decision are attached herewith.

In terms of Regulation 4(2) of the Environmental Impact Assessment Regulations, 2014 (as amended), you are instructed to notify all registered interested and affected parties in writing, and within 14 (fourteen) days of the date of this letter, of the Department's decision in respect of your application. Such notification must comply with the requirements of Regulation 4(2) and 4(3) and must draw the attention of registered interested and affected parties to the fact that an appeal may be lodged against the decision in terms of the National Appeal Regulations, 2014.

Your attention is drawn to the National Appeal Regulations, 2014, which regulate appeal procedures. Should you wish to appeal any aspect of the decision, you must, *inter alia*, lodge your appeal with the MEC, within 20 days of the date of receipt of this letter, by means of one of the following methods:

By facsimile: (013) 766 8295

By post: Private Bag x 11219
Nelspruit
1200

By hand: Building 6, No. 7 Government Boulevard
Riverside Park Extension 2
Nelspruit
1200

PN



Should you decide to appeal, you must also serve a copy of your appeal on all registered interested and affected parties and any organ of state with interest in the matter.

Yours faithfully,



MS. P.N NTULI

ACTING CHIEF DIRECTOR: ENVIRONMENTAL AFFAIRS

DATE: 21/05/2018

cc: Mrs. M. André
Enpact Environmental Consultants cc
Email: info@enpact.co.za



Environmental Authorisation

Application number:	1/3/1/16/1E-149
Holder of Authorisation:	City of Mbombela
NEAS reference number:	MPP/EIA/0000399/2018
Location of activity:	Riverside Park Extensions 27 and 29, Portion 14 of the Remaining Extent of the farm Boschrand 283JT, Portion 1 and the Remaining Extent of the farm Riverside 308 JT, and Erven 7, 8, 10, 11 and 29 of Mataffin, City Of Mbombela, Mpumalanga Province <i>PN</i>

1. Decision

The Department is satisfied on the basis of information available to it and subject to compliance with the conditions of this environmental authorisation, that the applicant should be authorised to undertake the activity as specified below. Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

2. Activities authorised

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act 107 of 1998) and the Environmental Impact Assessment Regulations 2014 (as amended), the Department hereby authorises:

City of Mbombela
PO Box 45
Nelspruit
1200

Contact : Mr. Jaco Landsberg
Tel : 013 759 9440
Email : jaco.landsberg@mbombela.gov.za

To undertake the following activities listed in Government Notices R983 and R985 of 4 December 2014 (as amended) associated with the construction of a 40 MVA electrical substation on a site in Riverside Park Extensions 27 and 29, and a 132 kV power line on the Remaining Extent of Portion 14 of the farm Boschrand 283 JT, Portion 1 and the Remaining Extent of the farm Riverside 308 JT, and Erven 7, 8, 10, 11 and 29 of Mataffin, City of Mbombela, at the co-ordinates referred to in the table below (hereafter referred to as "the activity"):

Activity number	Activity Description	Extent to which Activity is Authorised Where activities authorised are in accordance with the preferred route presented in the Powerline and Substation Alignment plan dated 9 May 2018 as included in the Basic Assessment Report dated May 2018
GNR 983 Activity 11(i)	The development of facilities or infrastructure for the transmission and distribution of electricity - outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts	The construction of a 40 MVA electrical substation, and the construction of a 4.5km 132 kV overhead powerline from the existing Matsafeni substation east of the Mbombela Stadium at S25°28'02.60" 30°55'48.97"E to a new substation at S25°26'30.41" 30°56'59.43"E, west of the P166 road and south of the Lydenburg road.
GNR 983 Activity 12(ii)	The development of - infrastructure or structures with a physical footprint of 100 m ² or more; where such development occurs (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse.	The construction of a 4.5km 132kV overhead powerline, which will entail the establishment of pylons/poles, with a footprint of 15 X 15m, close to identified water resources, where such pylons/poles are established in accordance with the preferred alignment as presented in the Powerline and Substation Alignment plan dated 9 May 2018.
GNR 985 Activity 14	The development of - infrastructure or structures with a physical footprint of 10 m ² or more; where such development occurs - (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback exists, within 32	

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	metres of a watercourse, measured from the edge of a watercourse.	
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The granting of this environmental authorisation is subject to the conditions set out below.

3. Conditions of Authorisation

Scope of authorisation

- 3.1. Authorisation of the activity is subject to the conditions contained in this authorisation, which form part of the environmental authorisation and are binding on the holder of the authorisation.
- 3.2. The holder of the authorisation must ensure compliance with these conditions by any person acting on his or her behalf, including but not limited to, an agent, sub-contractor, employee or person rendering a service to the holder of the authorisation.
- 3.3. The activity which is authorised may only be carried out at the property indicated above.
- 3.4. Any changes to, or deviations from, the project description set out in this authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further authorisation in terms of the regulations.
- 3.5. In the event that the impacts exceed the significance as predicted in the basic assessment report, the authorisation may be suspended and/or withdrawn after proper procedures have been followed.
- 3.6. In the event of any dispute concerning the significance of a particular impact, the opinion of the Department in respect of its significance will prevail.
- 3.7. The Department may change or amend any of the conditions of this authorisation if, in the opinion of the Department, it is environmentally justified.
- 3.8. This activity must commence within a period of five (5) years from the date of issue. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for environmental authorisation must be made in order for the activity to be undertaken, unless the holder of this environmental authorisation has lodged a valid application to amend the validity period of this authorisation before this authorisation lapses, in which case, this authorisation will remain valid. However, the activity, including site preparation, may not commence prior to the amendment application being decided.
- 3.9. The holder of this authorisation is responsible for compliance with the provisions for Duty of Care and Remediation of Environmental Damage contained in Section 28 of the National Environmental Management Act, 1998 (Act 107 of 1998).
- 3.10. This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity, including, *inter alia*, the National Forests Act, 1998 (Act 84 of 1998) and the National Water Act, 1998 (Act No. 36 of 1998).

Appeal of authorisation

- 3.11. The applicant must, in writing, within fourteen days of the date of the decision on the application ensure that-
 - a) All registered interested and affected parties are provided with access to the decision and the reasons for such decision; and
 - b) The attention of all registered interested and affected parties is drawn to the fact that an appeal may be lodged against the decision in terms of the National Appeal Regulations 2014, if such appeal is available in the circumstances of the decision;
 - c) The decision includes the complete environmental authorisation granted or refused.

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Management and monitoring of the activity

- 3.12. The Environmental Management Programme (EMPr) dated May 2018 submitted as part of the basic assessment report is hereby approved, and must be implemented and adhered to throughout the lifecycle of the activity.
- 3.13. Before site clearing or construction activities may commence, plant species of conservation concern (endemic, protected, Red Data) must be identified and marked, and may not be disturbed, or, where required, the relevant permits for their relocation or removal must be obtained from the relevant authority.
- 3.14. Plant species of conservation concern that are identified for relocation must be relocated to areas of similar habitat that will not be transformed on the property, unless otherwise stipulated by the relevant permitting authority.
- 3.15. Destruction of vegetation within the Riparian Forest community, as per Ecorex Terrestrial Ecology Study and Biodiversity Value Assessment dated December 2017, is prohibited.
- 3.16. Powerlines crossing the Crocodile River are only permissible in the event that they are placed above the forest canopy.
- 3.17. The placement of pylons within 15m of aquatic ecosystem boundaries is prohibited (refer to Nepid Consultants Aquatic Ecosystems Report dated 13 March 2018).
- 3.18. Prior to the commencement of site clearing, all restricted areas as outlined above must be surveyed on site in consultation with the relevant ecological and aquatic specialists, the Environmental Control Officer, and the engineer, and must be clearly demarcated on site for the duration of the construction phase.
- 3.19. The contractor responsible for vegetation clearing must have a valid herbicide applicator's licence, and the application of herbicide may only take place after consultation with the Environmental Control Officer (ECO).
- 3.20. The disturbance of nests or breeding activities of birds, reptiles, or any other wildlife, is strictly prohibited.
- 3.21. All vertebrates, including slow moving reptiles and smaller mammals, must be allowed to move unharmed, or be assisted and relocated in consultation with the ECO, to the areas of the property that will not be transformed.
- 3.22. The applicant must appoint an independent Environmental Control Officer (ECO) that will have the responsibility of monitoring and reporting on compliance with the conditions of this environmental authorisation as well as monitoring and reporting on the implementation of the approved EMPr:
 - 3.22.1. The ECO must be appointed before the commencement of site clearing or construction and the Department must be notified of such an appointment for communication purposes.
 - 3.22.2. The ECO must, prior to any site clearing activities, oversee the identification and marking of trees that may not be removed.
 - 3.22.3. The ECO must oversee the identification, and relocation or removal of plant species of conservation importance.
 - 3.22.4. The ECO must accompany the surveyor on site to ensure that no pylons are located within 15m of any aquatic ecosystems, and that no vegetation within the Riparian Forest community is disturbed or removed.
 - 3.22.5. The ECO must accompany the contractor responsible for vegetation clearing to ensure that conditions pertaining to protected plant species and clearing of vegetation are complied with.
 - 3.22.6. Prior to the commencement of construction, the ECO must identify any breeding bird species that may be affected by construction activities. If any breeding species are identified, these must be reported to Endangered Wildlife Trust for case specific recommendations.

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- 3.22.7. The ECO must oversee faunal search and rescue prior to and during site clearing activities.
- 3.22.8. The ECO must monitor contractors' entry into sensitive habitat.
- 3.22.9. The ECO must monitor the restriction of construction to designated areas.
- 3.22.10. The ECO must oversee all rehabilitation activities.
- 3.22.11. During the construction phase, the ECO must submit monthly compliance reports to the Department in writing and copy the applicant with such reports. Where applicable, the ECO may negotiate the required frequency for the submission of reports with the Department, which must be agreed to in writing by the Department. The reports must include a description of all activities on site, problems identified, transgressions noted and remedial action implemented. All reports must reflect the Department's reference number of the project on the cover page.
- 3.22.12. The ECO must maintain the following on site:
 - A site diary
 - Copies of all reports submitted to the Department
 - A complaints register of all public complaints and the remedies applied to such complaints
- 3.22.13. The ECO must remain employed until all rehabilitation measures as well as site clean-up are completed and the site is handed over to the applicant by the contractor for operation.
- 3.23. All towers/pylons must be fitted with the standard Eskom Bird Perch or Perching bracket to provide safe perching substrate at the top of the pylons well clear of dangerous hardware.
- 3.24. 'High risk sections', ie. the spans that cross the Crocodile River and any areas within close proximity to wetlands must be marked with the most currently accepted Bird Flight Diverters on the earth wire of the line, five metres apart, alternating black and white. The identification of 'high risk sections' must be done in consultation with the ecologist and the ECO, and must be monitored throughout the lifecycle of the project.
- 3.25. Line performance must be monitored once operational, and where any bird faults are detected, Endangered Wildlife Trust must be notified immediately for specific recommendations.
- 3.26. Breeding sites of birds must be kept intact, and breeding pairs may not be disturbed in any way.
- 3.27. The holder of the authorisation must submit an environmental compliance audit report to the Department within 30 days of completion of the construction phase. The environmental audit report must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the conditions of this authorisation as well as the requirements of the EMPr.
- 3.28. The Department retains the right to monitor and/ or inspect the proposed project throughout its lifecycle.
- 3.29. The holder of the authorisation must submit an environmental compliance audit report to the Department within 30 days of completion of the construction phase. The environmental audit report must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the conditions of this authorisation as well as the requirements of the EMPr.
- 3.30. The Department retains the right to monitor and/ or inspect the proposed project throughout its lifecycle.

Commissioning and operation of the activity

- 3.31. At least fourteen (14) days written notice must be given to the Department that the activity will commence. Commencement for the purposes of this condition includes site

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- preparation. The notice must include a date on which it is anticipated that the activity will commence, and must include the name and contact details of the appointed ECO.
- 3.32. Areas to be cleared must be defined and demarcation of material lay down areas must precede all activities on site.
 - 3.33. The placement of any fencing on site must be finalised in consultation with the ECO.
 - 3.34. Construction camps, temporary housing, temporary ablution, stockpile areas, storing of equipment and material, site offices and construction workshops are prohibited from being located within 32m of a watercourse, or within 20m of a riparian area.
 - 3.35. The activity may not cause or result in the impediment of any watercourse.
 - 3.36. No activity adjacent to wetlands, dams, watercourses or riparian zones may impede the free movement of wetland or riverine biota by the construction of any barrier that inhibits the continuity of the corridor function.
 - 3.37. Construction personnel must be made aware of the sensitivity of the area and their movements must be limited to the construction areas only and must be enforced in terms of the contracts of appointment.
 - 3.38. An alien plant control program must be implemented at the inception of the site clearing phase.
 - 3.39. Topsoil may not be stockpiled at heights exceeding 1.5m.
 - 3.40. Topsoil stockpiles may not have slopes steeper than 1:2.5 and may not be compacted in any way or stockpiled for a period longer than 6 months.
 - 3.41. Stringent measures must be applied to suppress dust emanating from the construction site.
 - 3.42. No surface storm water generated as a result of the development may be channeled directly into any wetland or watercourse. All surface runoff generated during both construction and operation phases must be managed prior to entering any natural drainage system or wetland so as not to impact on the natural hydrology and morphology of the watercourse.
 - 3.43. Surface water rich in sediments and other pollutants must be prevented from entering any watercourse or wetland, and all mechanisms for dissipating water energy must be implemented at the inception of the construction phase.
 - 3.44. Increased runoff due to vegetation clearance and/or soil compaction and/or any hardened surfaces must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the watercourse or wetland.
 - 3.45. Soils that become compacted through the activities of the development must be loosened to an appropriate depth to allow seed germination.
 - 3.46. Scouring, erosion or sedimentation of all watercourses and wetlands must be prevented, and the stability of watercourses may not be detrimentally affected.
 - 3.47. The quality of water downstream may not deteriorate as a result of development activities.
 - 3.48. Where ablution facilities for construction personnel are required, dry chemical toilet facilities or e-loo's must be provided on site at a ratio of 1:10 for construction staff. Ablution facilities may not be located within 50m from any watercourse or wetland, and may not cause pollution.
 - 3.49. Chemical toilets must be maintained and cleaned regularly and effluent must be disposed of off-site into an approved municipal sewage system.
 - 3.50. The storage and handling of fuel, lubricants and other chemicals must be in especially demarcated impervious and bunded areas.
 - 3.51. The mixing of cement, asphalt, chemicals or other noxious materials must be undertaken in designated areas on an impermeable layer such as a concrete slab or in a container suitable for this.

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- 3.52. Construction vehicles and equipment must be checked and maintained regularly to ensure that there is no environmental contamination as a result of oil, fuel or hydraulic fluid leakages.
- 3.53. All disturbed areas must be fully rehabilitated and protected from erosion. Rehabilitation measures must be aimed at the prevention of soil erosion and the re-establishment of indigenous vegetation.
- 3.54. No construction material or any other waste material may be dumped into any watercourse or surrounding area.
- 3.55. All general waste generated on the site must be disposed of in a registered landfill site or as directed by any other relevant authority.
- 3.56. All hazardous waste must be disposed of at an official registered site, or be removed by registered hazardous waste contractors.
- 3.57. It is the responsibility of the holder of the authorisation to rectify any source of pollution from their undertaking and to take appropriate measures to prevent any pollution of surface as well as underground water.
- 3.58. Construction personnel must be sensitized to the requirements of the South African Heritage Resources Act. Should any material of cultural or archaeological significance be encountered during construction, all activities must cease immediately and the South African Heritage Resources Agency (SAHRA) must be informed accordingly.
- 3.59. Complaints received from the public during the construction and operational phases of the activity must be attended to as soon as possible and addressed to the satisfaction of all concerned.

General

- 3.60. A copy of this authorisation must be kept at the property where the activity will be undertaken. The authorisation must be produced to any authorised official of the Department who requests to see it and must be made available for inspection by any employee or agent of the holder of the authorisation who works or undertakes work at the property.
- 3.61. Where any of the applicant's contact details change, including the name of the responsible person, the physical or postal address and/ or telephonic details, the applicant must notify the Department as soon as the new details become known to the applicant.
- 3.62. Non-compliance with a condition of this authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, 1998 and the regulations.
- 3.63. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the applicant or his successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the applicant with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

ENVIRONMENTAL AUTHORISATION APPROVED BY:



MS. P.N. NTULI

ACTING CHIEF DIRECTOR: ENVIRONMENTAL AFFAIRS

DATE: 31/05/2018

Annexure 1: Reasons for the Decision

1. Background

- 1.1 The applicant, City of Mbombela, applied for authorisation to carry out the following activities listed in Government Notices R983 and R985 of 4 December 2014 (as amended) associated with the construction of a 40 MVA electrical substation on a site in Riverside Park Extensions 27 and 29, and a 132 kV power line on the Remaining Extent of Portion 14 of the farm Boschrand 283 JT, Portion 1 and the Remaining Extent of the farm Riverside 308 JT, and Erven 7, 8, 10, 11 and 29 of Mataffin, City of Mbombela, at the co-ordinates referred to in the table below (hereafter referred to as "the activity"):

Activity number	Activity Description	Extent to which Activity is Authorised Where activities authorised are in accordance with the preferred route presented in the Powerline and Substation Alignment plan dated 9 May 2018 as included in the Basic Assessment Report dated May 2018
GNR 983 Activity 11(i)	The development of facilities or infrastructure for the transmission and distribution of electricity - outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts	The construction of a 40 MVA electrical substation, and the construction of a 4.5km 132 kV overhead powerline from the existing Matsafeni substation east of the Mbombela Stadium at S25°28'02.60" 30°55'48.97"E to a new substation at S25°26'30.41" 30°56'59.43"E, west of the P166 road and south of the Lydenburg road.
GNR 983 Activity 12(ii)	The development of - infrastructure or structures with a physical footprint of 100 m ² or more; where such development occurs where such development occurs (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback exists, within 32 m of a watercourse, measured from the edge of a watercourse.	The construction of a 4.5km 132kV overhead powerline, which will entail the establishment of pylons/poles, with a footprint of 15 X 15m, close to identified water resources, where such pylons/poles are established in accordance with the preferred alignment as presented in the Powerline and Substation Alignment plan dated 9 May 2018.
GNR 985 Activity 14	The development of - infrastructure or structures with a physical footprint of 10 m ² or more; where such development occurs - (a) within a watercourse; (b) in front of a development setback; or (c) if no development setback exists, within 32 m of a watercourse, measured from the edge of a watercourse.	

- 1.2 The applicant appointed the following Environmental Assessment Practitioner (EAP) to undertake a basic assessment process:

Enpact Environmental Consultants
 P O Box 12027
 Nelspruit
 1200

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Contact : Mrs. M. André
Tel : 064 870 4968
Email : info@enpact.co.za

2. In reaching its decision, the Department took the following into consideration:
- The application form received on 27 March 2018.
 - The information contained in the basic assessment report and environmental management programme dated May 2018.
 - The comments received from interested and affected parties as included in the abovementioned reports.
 - The objective and requirements of relevant legislation, policies and guidelines, including Section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Mpumalanga Biodiversity Sector Plan.
3. **Key factors considered in making the decision.**
All information presented to the Department was taken into account in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below:
- Sustainability
 - Socio-economic impacts
 - Bio-physical impacts

4. **Findings**

After consideration of the information and factors listed above, the Department made the following findings:

- According to the basic assessment report, the development proposal is considered to be environmentally, economically and socially sustainable.
- There is no evidence in the basic assessment report and associated specialist studies to suggest that the physical environment will be significantly negatively impacted by the proposed activity, or that the proposed activity will pose any undue threat to the environment.
- Mitigation measures and recommendations outlined in the basic assessment report and environmental management programme prepared for the activity are appropriate and practical for implementation, and it is anticipated that they will reduce the significance of potential impacts.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the proposed activity will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and that any potentially detrimental environmental impacts resulting from the proposed activity can be mitigated to acceptable levels. The application is accordingly granted. *PN*