

Development of the 40MW Kokerboom 4 Wind Energy Facility, Battery Energy Storage System and Associated Infrastructure, near Loeriesfontein in the Northern Cape Province

Our Ref:



an agency of the
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4637 | Cape Town | 8001
www.sahra.org.za

Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 16419

Date: Tuesday September 14, 2021
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Final Comment

In terms of Section 38(4), 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Business Venture Investments No 2105 (Pty) Ltd

Business Venture Investments No. 1733 (Pty) Ltd (BVI) proposes to construct a 40MW wind energy facility (WEF) and associated infrastructure on the remaining extent (RE) of farm Aan de Karree Doorn Pan, farm No.213 within ward 5 of the Hantam Local Municipality. The proposed site is located approximately 60 kilometre (km) north of Loeriesfontein, 85 km west of Brandvlei and 160 km south east of Springbok in the Namakwa District Municipality, in the Northern Cape

Zutari (Pty) Ltd has been appointed by Business Venture Investments No. 2105 (Pty) Ltd to conduct an Environmental Authorisation (EA) Application for the proposed development of the Kokerboom 4 Wind Energy Facility, battery energy storage system and associated infrastructure on Farm RE 213, near Loeriesfontein, Northern Cape Province.

A Scoping Report has been submitted in terms of the National Environmental Management Act, 1998 (NEMA) and the 2017 NEMA Environmental Impact Assessment (EIA) Regulations. The proposed development will include 8 wind turbines, a facility substation, operation and maintenance building, BESS, underground cabling between project components, hardstands at each turbine, service and access roads, laydown areas with storage and workshops areas and batching plant.

Natura Viva CC and ASHA Consulting (Pty) Ltd were appointed to provide heritage specialist input as part of the EA process as required by section 24(4)b(iii) of NEMA, and in terms of section 38(3) of the National Heritage Resources Act, Act 25 of 1999 (NHRA) as required by section 38(8) of the NHRA.

Almond, J. E. 2021. Palaeontological Heritage Assessment: Site Sensitivity Report & Letter of Exemption from Further Specialist Studies Proposed Kokerboom 3 and Kokerboom 4 Wind Farms near Loeriesfontein, Namaqua District Municipality, Northern Cape.

The proposed development area is underlain by fossiliferous sediments of the Ecca Group that are poorly exposed and deeply weathered and extensively intruded by unfossiliferous Karoo dolerites. Possible Karoo and / or post-Karoo breccia pipes and igneous intrusions were encountered during fieldwork. Fossils that may be present include low diversity trace fossils that occur widely. These rocks are overlain by late Caenozoic



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superficial deposits that do not contain many fossils. No fossils were identified during the field assessments. Recommendations include the need for a Chance Finds Procedure.

Orton, J. 2021. Heritage Impact Assessment for the Proposed Kokerboom 4 Wind Energy Facility on Farm 213/Rem, north of Loeriesfontein, Calvinia Magisterial District, Northern Cape

A total of 9 heritage resources were identified within the proposed development footprint. These include surface scatters of Stone Age lithics of very low to medium heritage significance, ostrich eggshell fragments, and scatters of historical artefacts such as glass bottles, earthenware, porcelain and metal items. It is noted that the development is designed to avoid impacts to heritage resources.

Recommendations provided in the report include the following:

- If any archaeological material or human burials are uncovered during the course of development then the find should be protected from further disturbance and work in the immediate area should be halted if necessary. The find would need to be reported to the heritage authorities and may require inspection by an archaeologist. Such heritage is the property of the state and may require excavation and curation in an approved institution.

In an Interim Comment issued on the 03/06/2021, SAHRA noted the submitted heritage reports. Further comments will be issued upon receipt of the draft EIA inclusive of appendices. Since the issuing of the Interim Comment, additional Heritage Reports have been submitted along with the DEIR.

Almond, J. E. 2020. Palaeontological Heritage Assessment: Site Sensitivity Report & Letter of Exemption from Further Specialist Studies. Proposed Kokerboom 3 and Kokerboom 4 Wind Farms near Loeriesfontein, Namaqua District Municipality, Northern Cape.

The proposed development area is underlain by the Prince Albert, Whitehill and Tierberg Formations which may contain invertebrate trace fossils. These have been baked by unfossiliferous Karoo dolerite intrusions. Breccia pipes and igneous intrusions were identified during the fieldwork. Late Caenozoic superficial deposits appear to be highly fossiliferous, however finds are rare and unpredictable.

A Chance Fossil Finds Procedure is recommended to be implemented and is provided in the report.

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Orton, J. 2021. Heritage Impact Assessment for the Proposed Kokerboom 4 Wind Energy Facility on Farm 213/REM, North of Loeriesfontein, Calvinia Magisterial District, Northern Cape.

A total of 9 heritage resources were identified within the proposed development footprint. These include surface scatters of Stone Age lithics of very low to low heritage significance, including other heritage resources such as ostrich eggshell fragments, and scatters of historical artefacts such as glass bottles, earthenware, porcelain and metal items. One site of medium significance was identified containing widespread LSA artefacts scatter with a few higher density clusters. It is noted that the development is designed to avoid impacts to heritage resources. A Chance Finds Procedure is recommended to be implemented.

Final Comment

The following comments are made as a requirement in terms of section 3(4) of the NEMA Regulations and section 38(8) of the NHRA in the format provided in section 38(4) of the NHRA and must be included in the Final EIR and EMP:

- 38(4)a – The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit has no objections to the proposed development;
- 38(4)b – The recommendations of the specialists are supported and must be adhered to. No further additional specific conditions are provided for the development;
- 38(4)c(i) – If any evidence of archaeological sites or remains (e.g. remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments, charcoal and ash concentrations), fossils or other categories of heritage resources are found during the proposed development, SAHRA APM Unit (Natasha Higgitt/Phillip Hine 021 462 5402) must be alerted as per section 35(3) of the NHRA. Non-compliance with section of the NHRA is an offense in terms of section 51(1)e of the NHRA and item 5 of the Schedule;
- 38(4)c(ii) – If unmarked human burials are uncovered, the SAHRA Burial Grounds and Graves (BGG) Unit (Thingahangwi Tshivhase/Mimi Seetelo 012 320 8490), must be alerted immediately as per section 36(6) of the NHRA. Non-compliance with section of the NHRA is an offense in terms of section 51(1)e of the NHRA and item 5 of the Schedule;
- 38(4)d – See section 51(1) of the NHRA for offenses;
- 38(4)e – The following conditions apply with regards to the appointment of specialists:
 - i) If heritage resources are uncovered during the course of the development, a professional archaeologist or palaeontologist, depending on the nature of the finds, must be contracted as soon as possible to inspect the heritage resource. If the newly discovered heritage resources prove to be of

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archaeological or palaeontological significance, a Phase 2 rescue operation may be required subject to permits issued by SAHRA;

- The Final EIR and EMPr must be submitted to SAHRA for record purposes;
- The decision regarding the EA Application must be communicated to SAHRA and uploaded to the SAHRIS Case application.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

Natasha Higgitt
Heritage Officer
South African Heritage Resources Agency

Phillip Hine
Manager: Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <https://sahris.sahra.org.za/node/573657>

Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.

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2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.