



MULILO
RENEWABLE PROJECT DEVELOPMENTS

Environmental Impact Assessment for the
proposed Kuruman Phase 2 Wind Energy
Facility near Kuruman in the Northern Cape

Draft Environmental Impact Assessment Report



PART B:

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APPENDIX A:

Curriculum Vitae of the
Environmental
Assessment Practitioners



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Curriculum Vitae: Minnelise Levendal - Project Leader

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CSIR
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South Africa

Phone: +27 21 888 2495/2661
Fax: +27 21 888 2693
Email: mlevendal@csir.co.za



Curriculum Vitae: Minnelise Levendal – Project Leader

Name of firm	CSIR
Name of staff	Minnelise Rouchelle-Ann Levendal
Profession	Environmental Assessment Practitioner/Project Manager
Position in firm	Senior Environmental Assessment Practitioner
Years' experience	17 years
Nationality	South African
Languages	Afrikaans and English
Licence	Code EB (22 years)

BIO-SKETCH:

Minnelise has been working in the Environmental Management sector for 17 years. She completed her BSc degree in Botany at the University of the Western Cape in 1994 and her Masters (MSc) in Botany at the University of Stellenbosch in 1998. After completing her Honours degree she lectured Mycology at the Peninsula Technicon (now known as the Cape Peninsula University of Technology (CPUT) in 1995. She then lectured Botany to second year students at the University of the Western Cape (UWC) in 1996.

Following the completion of her Masters Degree she was selected as one of 20 students from third world countries to attend a course on desertification in 1999 sponsored by the Shalom programme at the Ramon Science Center, Sede Boqer, Mitrani Department of Desert Ecology, Bengurion University of the Negev, Israel. After successfully completing the one-month course, she worked at the said institution as a research assistant for two months. The research she conducted led to the publication of an article that was published in the Journal of Arid Environments in 2004-see list of publications.

Following her studies and research work at the Bengurion University, she was appointed as an Environmental Officer at the Western Cape Department of Environmental Affairs and Development Planning (DEA&DP) in November 1999. Her work included commenting on Environmental Impact Assessments (EIAs), Basic Assessments (BAs) and Environmental Management Plans (EMPs) to ensure that environmental issues are adequately addressed in development applications. At DEA&DP she also worked in the Biodiversity unit to promote the mainstreaming of biodiversity issues into environmental decision-making, policies and planning. From 2003 until 2004 she was the secretary for the Interim Western Cape Coastal Coordinating Committee (IWCCC). She was also a member of the IAIA (Western Cape) steering committee from 2001 to 2002. At DEA&DP she attended numerous courses on Environmental Management (including Environmental Law)-a full list of courses is available on request.

Minnelise is currently a Senior Environmental Assessment Practitioner (EAP) in the Environmental Management Services (EMS) Group at the Council for Scientific and Industrial Research (CSIR) in Stellenbosch. She joined the CSIR in 2004. Her current work entails managing EIAs and BAs to ensure that environmental criteria are adequately assessed in development applications, including monitoring and evaluation. She also prepares proposals and write reports.

She is currently managing various EIAs for renewable energy projects in South Africa, including wind and solar. She was the project manager for ten BAs for wind monitoring masts in South Africa as part of the National Wind Atlas Project of the Department of Energy. Environmental Authorisation for these 10 BAs were granted by the national Department of Environmental Affairs (DEA) in 2010. She was the CSIR project manager for the 100 MW Ubuntu Wind Energy Facility near Jeffrey's Bay (Environmental Authorisation granted in June 2012), as well as the 50 MW Banna Ba Pifhu Wind Energy proposed by WKN Windcurrent near Humansdorp in the Eastern Cape (Environmental Facility Authorisation granted in July 2014). She also managed seven EIAs for seven solar Photovoltaic (PV) Facilities near Kenhardt for Mulilo Renewable Project Developments (2015-2016). She is currently managing two EIAs for two wind energy facilities near Victoria West in the Northern Cape for Mainstream Renewable Power Developments.

Minnelise is currently managing the Special Needs and Skills Development Programme of DEA (2014-2018) which provide *pro bono* environmental services to applicants with special needs. This involves mentoring interns and Junior Environmental Assessment Practitioners.

In addition to the EIAs and BAs undertaken by Minnelise, she was also the Project Manager of other diverse projects to promote environmental management including *inter alia*:

- Biodiversity Management Plan for the African Lion (*Panthera leo*) (2014);
- Development of a National Management Plan and Strategy for Invasive Alien species (2014);
- South Africa's Second National Communication under the United Nations Framework Convention on Climate change (2010); and
- The development of protocols for the monitoring and evaluation of benefits arising from the Working for Water Programme (2008).

In undertaking these projects, Minnelise has developed a keen grasp of national and international sustainability issues which affect people and the environment. She has a good knowledge of environmental legislation and environmental management in general.

EDUCATION

▪ M.Sc. (Botany)	Stellenbosch University	1998
▪ B.Sc. (Hons.) (Botany)	University of the Western Cape	1994
▪ B.Sc. (Education)	University of the Western Cape	1993

PROFESSIONAL REGISTRATIONS / MEMBERSHIPS

- International Association for Impact Assessment (IAIA), Western Cape (member of their steering committee from 2001-2002).
- Professional Natural Scientist (Pr.Sci.Nat) – registration imminent)

EMPLOYMENT RECORD

Name of current employer	Position	From	To
CSIR (Environmental Management Services; Implementation Unit)	Senior Environmental Assessment Practitioner	2006	Present
CSIR (Natural Resources and the Environment)	Environmental Researcher	2004	2006
Western Cape Department of Environmental Affairs and Development Planning (DEA&DP)	Assistant Director	2003	2004
	Principal Environmental Officer	2002	2003
	Principal Environmental Officer	2002	2003
	Senior Environmental Officer	2001	2002
	Environmental Officer	1999	2000
University of the Western Cape	Junior Lecturer	1996	1996
Cape Peninsula University of Technology (CPUT)	Junior Lecturer	1995	1995

KEY COURSES

- Public Participation in Environmental Authorisation in South Africa: IAIA workshop presented by Tisha Greyling and Erika Du Plessis (2016).
- Environmental Law: Shepstone Wylie Attorneys; Presented by Janice Tooley (2015).
- Sharpening the Tool: New techniques and methods in Environmental Impact Assessment: Sustainable Environmental Solutions (Pty) Ltd (2015).
- Effective Skills for Challenging Meetings & Engagements: Conflict Dynamics (2015).
- Science Communication and Working with the Media: Proof Communications/Jive Media Africa (2014).
- Leadership, Innovation and Change Management: University of Stellenbosch (Business School) (2013).
- MS Project: CILLA (2011).
- Project Management I and II: CILLA (2005)
- Social Impact Assessment: IAIA workshop (2002)
- Environmental Law ("The New Environmental Law Course for Environmental Managers): University of Potchefstroom: Center for Environmental Management) (2002).
- Implementing Environmental Management Systems (SABS/ISO 14001:1996): University of Potchefstroom: Center for Environmental Management (2002).
- Conflict Management in Environmental Issues: University of Potchefstroom: Center for Environmental Management) (2001).

PROJECT EXPERIENCE RECORD

The following table presents a list of key projects undertaken by Minnelise Levendal at the CSIR to date, as well as the role played in each project:

Environmental Impact Assessment (EIAs) and Basic Assessments (BAs)-including their respective Environmental Management Programmes (EMPRs):

Completion Date	Project description	Role	Client
2016-present	EIA for the proposed Platberg Wind Energy Facility near Victoria West in the Northern Cape	Project Manager and EAP	South Africa Mainstream Renewable Power Developments (Pty) Ltd
2016-present	EIA for the proposed Teekloof Wind Energy Facility near Victoria West in the Northern Cape	Project Manager and EAP	South Africa Mainstream Renewable Power Developments (Pty) Ltd
2015-2016	EIA for the Gemsbok Solar Photovoltaic, PV 3 near Kenhardt in the Northern Cape	Project Manager and EAP	Mulilo Renewable Project Developments
2015-2016	EIA for the Gemsbok Solar PV4 near Kenhardt in the Northern Cape	Project Manager and EAP	Mulilo Renewable Project Developments
2015-2016	EIA for the Gemsbok Solar PV5 near Kenhardt in the Northern Cape	Project Manager and EAP	Mulilo Renewable Project Developments
2015-2016	EIA for the Gemsbok Solar PV6 near Kenhardt in the Northern Cape	Project Manager and EAP	Mulilo Renewable Project Developments
2015-2016	EIA for the Boven Solar PV 2 near Kenhardt in the Northern Cape	Project Manager and EAP	Mulilo Renewable Project Developments
2015-2016	EIA for the Boven Solar PV 3 near Kenhardt in the Northern Cape	Project Manager and EAP	Mulilo Renewable Project Developments
2015-2016	EIA for the Boven Solar PV 4 near Kenhardt in the Northern Cape	Project Manager and EAP	Mulilo Renewable Project Developments
2014-2016	Special Needs and Skills Development Programme	Project Manager	DEA
2010-2011 (EA Granted)	EIA for the proposed Ubuntu wind energy project, Eastern Cape	Project Manager	WKN Windkraft SA
2010-2011 (EA granted)	EIA for the proposed Banna Ba Pifhu wind energy project, Eastern Cape	Project Manager	WKN Windkraft SA
2010-2011 (EA granted)	BA for a powerline for a WEF near Swellendam in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd)
2010-2011 (EA Granted)	EIA for a proposed wind farm near Swellendam in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd)
2010 (EAs granted)	Basic Assessment for the erection of two wind monitoring masts near Swellendam and Bredasdorp in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd)
2010 (complete)	Basic Assessment for the erection of two wind monitoring masts near Jeffrey's Bay in the Eastern Cape	Project Manager	Windcurrent (Pty Ltd)

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Completion Date	Project description	Role	Client
2009-2010 (EAs granted)	Basic Assessment Process for the proposed erection of 10 wind monitoring masts in SA as part of the national wind atlas project	Project Manager	Department of Energy through SANERI; GEF
2009 (EAs granted)	Basic Assessment Report for a proposed boundary wall at the Port of Port Elizabeth, Eastern Cape	Project Manager	Transnet Ltd
Other Environmental Assessments, Strategies, Biodiversity Management Plans, Frameworks and Reporting tools:			
2013-2014	Development of a National Management Plan and Strategy for Invasive Alien species	Project Manager	DEA
2012-2014	Development of a Biodiversity Management Plan for the African Lion (<i>Panthera leo</i>)	Project Manager	DEA
2010	South Africa's Second National Communication under the United Nations Framework Convention on Climate Change	Project Manager	SANBI
2006-2008	Monitoring and Evaluation of aspects of Biodiversity	Project Leader	Internal project awarded through the Young Researchers Fund
2006	Integrated veldfire management in South Africa. An assessment of current conditions and future approaches.	Co-author	Working on Fire
2004-2005	Biodiversity Strategy and Action Plan Wild Coast, Eastern Cape, SA	Co-author	Wilderness Foundation
2005	Western Cape State of the Environment Report: Biodiversity section. (Year One).	Co-author and Project Manager	Department of Environmental Affairs and Development Planning

AWARDS

- 2008: Best presentation Award at Arid Zone Conference (Northern Cape)
- 2015: CSIR award for Human Capital Development: Special Needs and Skills Development Programme

CONFERENCE PRESENTATIONS & PAPERS

- **Levendal, M.** (2012). "Challenges in the Environmental Assessment of Renewable Energy Projects in South Africa" In IAIA (Portugal) Conference Proceedings.
- **Bowie, M.** (néé Levendal) (1998). "Ecophysiological responses of four succulent Karoo species under different temperature and water regimes." In *Arid Zone Conference (Northern Cape) Conference Proceedings*.

PUBLICATIONS

- **Bowie, M.** (néé Levendal) and Ward, D. (2004). Water status of the mistletoe *Plicosepalus acaciae* parasitic on isolated Negev Desert populations of *Acacia raddiana* differing in level of mortality. *Journal of Arid Environments* 56: 487-508.
- Wand, S.J.E., Esler, K.J. and **Bowie, M.R** (2001). Seasonal photosynthetic temperature responses and changes in 13C under varying temperature regimes in leaf-succulent and drought-deciduous shrubs from the Succulent Karoo, South Africa. *South African Journal of Botany* 67:235-243.

- **Bowie, M.R.,** Wand, S.J.E. and Esler, K.J. (2000). Seasonal gas exchange responses under three different temperature treatments in a leaf-succulent and a drought-deciduous shrub from the Succulent Karoo. South African Journal of Botany 66:118-123.

LANGUAGE CAPABILITY

<i>Language</i>	<i>Speaking</i>	<i>Reading</i>	<i>Writing</i>
<i>English</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>
<i>Afrikaans</i>	<i>Excellent</i>	<i>Excellent</i>	<i>Excellent</i>

REFERENCES

Mr Henri Fortuin

Director: Land Management: Department of Environmental Affairs & Development Planning; Western Cape (DEA&DP); (ex-colleague at CSIR)

Tel: 021 483 2787 / 083 226 9127

Email: henri.fortuin@westerncape.gov.za

Mr Patrick Morant

Independent (Private) Consultant

Tel: 021 888 2480

Cell: 076 266 033

Email: pmorant@csir.co.za



Minnelise Levendal

April 2018



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APPENDIX B:

Declaration of the
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Declaration of Independence of EAP

APPENDIX B
B.1 DECLARATION OF THE EAP

i. Minnelise Levenold declare that -

- I act as the independent environmental practitioner in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process;
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not;
- all the particulars furnished by me in this form are true and correct;
- will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 4B and is punishable in terms of section 24F of the Act.

Disclosure of Vested Interest (delete whichever is not applicable)

- I do not have and will not have any vested interest (either business, financial, personal or other) in the proposed activity proceeding other than remuneration for work performed in terms of the Regulations;
- ~~I have a vested interest in the proposed activity proceeding, such vested interest being: _____~~

Minnelise Levenold
Signature of the environmental assessment practitioner
CSIR
Name of company:
29/06/2018
Date

APPENDIX 9
9.2 UNDERTAKING UNDER OATH/ AFFIRMATION

I, Minrelise Leventhal, swear under oath / affirm that all the information submitted or to be submitted for the purposes of this application is true and correct.

Minrelise Leventhal

Signature of the environmental assessment practitioner

CSIR

Name of company

29/06/2018

Date

Daniel Gideon Goslett 29/06/2018

KOMMISSARIS VAN EDE / COMMISSIONER OF OATHS

DANIEL GIDEON GOSLETT

Kommissaris van Ede Er Offisier, Republiek van Suid-Afrika

Signature of the commissioner of oaths

Date



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APPENDIX C:

Database of Interested
and Affected Parties

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

No.	First Name	Surname	Company/ Organisation	Notice of Release of Draft Scoping Report for comments	Email: Notice of Submission of Scoping Reports to DEA	Notice of Release of Draft EIA Reports and BA Report	Email: Notice of Submission of EIA Reports and BA Report to DEA	Notice of EA for BAs and EIAs
Organs of State								
1.	H	Myburgh	Agri Northern Cape	✓	✓	✓		
2.	Ali	Dieme	Northern Cape Department of Agriculture, Land Reform & Rural Development	✓	✓	✓		
3.	Thoko	Buthlezi	Department of Agriculture, Forestry and Fisheries - AgriLand Liaison office	✓	✓	✓		
4.	D	Nhlakad	Department of Agriculture, Forestry and Fisheries - AgriLand Liaison office	✓	✓	✓		
5.	Anneliza	Collett	Department of Agriculture, Forestry and Fisheries - AgriLand Liaison office	✓	✓	✓		
6.	Mashudu	Marubini	Department of Agriculture, Forestry and Fisheries - Delegate of the Minister (Act 70 of 1970)	✓	✓	✓		
7.	Jacoline	Mans	Department of Agriculture, Forestry and Fisheries (Chief Forester: NFA Regulation)	✓	✓	✓		
8.	The Director		Department of Energy: Northern Cape	✓	✓	✓		
9.	M	Lepheane	Department of Labour: Northern Cape	✓	✓	✓		
10.	Kgauta	Mokoena	Department of Mineral Resources: Northern Cape	✓	✓	✓		
11.	Denver	Van Heerden	Department of Public Works, Roads and Transport	✓	✓	✓		

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12.	A	Botes	Department of Social Development	✓	✓	✓		
13.	Elliot	Sibeko	Department of Telecommunication & Postal Services	✓	✓	✓		
14.	Mashudu	Kgaphola (nee Randwedzi)	Department of Water and Sanitation	✓	✓	✓		
15.	Melinda	Mei	Department of Water and Sanitation	✓	✓	✓		
16.	Shaun	Cloete	Department of Water and Sanitation	✓	✓	✓		
17.	Andrew	Timothy	Department of Sports, Arts and Culture: Directorate - Heritage	✓	✓	✓		
18.	John	Geeringh	Eskom Holdings Ltd	✓	✓	✓		
19.	Kevin	Leask	Eskom Holdings Ltd	✓	✓	✓		
20.	Justine	Wyngaardt	Eskom Holdings Limited: Eskom Distribution Western Operating Unit	✓	✓	✓		
21.	Protea	Leserwane	Gamagara Local Municipality: Director - Strategic Services	✓	✓	✓		
22.	Boikanyo	Modise	Gamagara Local Municipality: Local Economic Development	✓	✓	✓		
23.	Ntsleleni	Nkhanedzini	Gamagara Local Municipality: Town planner	✓	✓	✓		
24.	Pierre	Burger	Gamagara Local Municipality: Environmental Health	✓	✓	✓		
25.	BB	Choche	Ga-Segonyana Local Municipality: Town planner	✓	✓	✓		

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26.	Tumela	Ditshetelo	John Taolo Gaetsewe District Municipality: Town planner	✓	✓	✓		
27.	Muhammad	Essop	Department of Environmental Affairs: Integrated Environmental Authorisations	✓	✓	✓		
28.	Wilma	Lutsch	Department of Environmental Affairs: Biodiversity Conservation	✓	✓	✓		
29.	Pieter	Buys	National Energy Regulator of South Africa (NERSA)	✓	✓	✓		
30.	Sharon	Steyn	Northern Cape Chamber of Commerce and Industry	✓	✓	✓		
31.	WVD	Mothibi	Northern Cape Department of Agriculture and Rural Development (HOD)	✓	✓	✓		
32.	Kholekile	Nongwini	Northern Cape Department of Roads and Public Works (HOD)	✓	✓	✓		
33.	Riaan	Warie	Northern Cape Economic Development Agency	✓	✓	✓		
34.	A	Yaphi	Provincial Department of Environment and Nature Conservation: Northern Cape	✓	✓	✓		
35.	M	Mathews	Provincial Department of Environment and Nature Conservation: Northern Cape	✓	✓	✓		
36.	Elsabe	Swart	Provincial Department of Environment and Nature Conservation: Northern Cape	✓	✓	✓		
37.	Thulani	Mthombeni	Provincial Department of Environment and Nature Conservation: Northern Cape	✓	✓	✓		

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38.	Sibonelo	Mbanjwa	Provincial Department of Environment and Nature Conservation: Northern Cape	✓	✓	✓		
39.	Gale	Letimela	Provincial Department of Environment and Nature Conservation: Northern Cape		✓	✓		
40.	Tsholo	Makaudi-Leburu	Provincial Department of Environment and Nature Conservation: Northern Cape		✓	✓		
41.	Bryan	Fisher	Provincial Department of Environment and Nature Conservation: Northern Cape		✓	✓		
42.	Nanine	Van Olmen	Provincial Department of Environment and Nature Conservation: Northern Cape		✓	✓		
43.	Beanca	Botes	Provincial Department of Environment and Nature Conservation: Northern Cape		✓	✓		
44.	Mandla	Nzilili	Provincial Department of Environment and Nature Conservation: Northern Cape		✓	✓		
45.	Natalie	Uys	Provincial Department of Environment and Nature Conservation: Northern Cape		✓	✓		
46.	Ragna	Redelstorff	SAHRA	✓	✓	✓		
47.	Natasha	Higgit	SAHRA	✓	✓	✓		
48.	Adrian	Tiplady	SARAO: SKA SA	✓	✓	✓		
49.	Lizell	Stroh	South African Civil Aviation Authority	✓	✓	✓		

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50.	Rene	De Kock	South African Roads Agency Limited (SANRAL): Northern Cape (Western Region)	✓	✓	✓		
51.	Chris	Coetzee	Southern African Large Telescope (SALT) Sutherland	✓	✓	✓		
52.	Ramotholo	Sefako	South African Astronomical Observatory (SAAO)	✓	✓	✓		
53.	Kgauta	Mokoena	Department of Mineral Resources	✓	✓	✓		
54.	Elliot	Sibeko	Department of Telecommunication & Postal Services	✓	✓	✓		
55.	Chris	Coetzee	Southern African Large Telescope (SALT) Sutherland	✓	✓	✓		
56.	Raoul	Van den Berg	Southern African Large Telescope (SALT) Sutherland	✓	✓	✓		
Conservation Organizations and NGOs								
57.	Simon	Gear	Birdlife South Africa	✓	✓	✓		
58.	Lubabalo	Ntsolo	C.A.P.E. Co-ordination Unit: Northern Cape	✓	✓	✓		
59.	Freyne	Du Toit	Grasslands Society of Southern Africa	✓	✓	✓		
60.	Dr Harriet	Davies-Mostert	Endangered Wildlife Trust: Wildlife and Energy Programme	✓	✓	✓		
61.	Dr Howard	Hendricks	South African National Parks (SANParks) - Snr GM: Policy & Governance Conservation Services Division	✓	✓	✓		

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62.	Dr Joh R	Henschel	SAEON Arid Lands Node	✓	✓	✓		
63.	Dr Mike	Knight	SANParks	✓	✓	✓		
64.	Angus	Burns	WWF-SA: Land and Biodiversity Stewardship Programme	✓	✓	✓		
65.	Praneel	Ruplal	Independent Communications Authority of South Africa (ICASA)	✓	✓	✓		
WEF Land Owners and Adjacent Property Owners								
66.	Clive	Albutt	Landowner	✓	✓	✓		
67.	Sarel and Aletta	Du Plessis	Landowner	✓	✓	✓		
68.	Tramab cc (1989/027778/23)		Landowner	✓	✓	✓		
69.	Clive	Albutt	Adjacent Landowners	✓	✓	✓		
70.	Johan	Voster	Adjacent Landowners	✓	✓	✓		
71.	Jan	Van Zyl	Adjacent Landowners	✓	✓	✓		
72.	Johan Lambrecht Trust (IT6/1998)		Adjacent Landowners	✓	✓	✓		
73.	Hans	Kruger	Adjacent Landowners	✓	✓	✓		

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74.	Wouter	Naude	Adjacent Landowners	✓	✓	✓		
75.	Anna Rita	Jordaan	Adjacent Landowners	✓	✓	✓		
76.	Abraham	Fourie	Adjacent Landowners	✓	✓	✓		
77.	Sarel JP and Aletta MJ	Du Plessies	Adjacent Landowners	✓	✓	✓		
78.	BALOKA TRUST (IT409/2000)		Adjacent Landowners	✓	✓	✓		
79.	Hennie	Joubert	Adjacent Landowners	✓	✓	✓		
80.	Corheim CC		Adjacent Landowners	✓	✓	✓		
81.	Hendan Boerdery CC		Adjacent Landowners	✓	✓	✓		
82.	Petrus Retief	Malan	Adjacent Landowners	✓	✓	✓		
83.	Mathys Machiel	Basson	Adjacent Landowners	✓	✓	✓		
84.	ME	Van Rooyen	Adjacent Landowners	✓	✓	✓		
85.	Herman	Laubcher	Adjacent Landowners	✓	✓	✓		
86.	Sarel Johannes	Koortz	Adjacent Landowners	✓	✓	✓		
EGI Land Owners and Adjacent Property Owners								

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

No.	First Name	Surname	Company/ Organisation	Notice of Release of Draft Scoping Report for comments	Email: Notice of Submission of Scoping Reports to DEA	Notice of Release of Draft EIA Reports and BA Report	Email: Notice of Submission of EIA Reports and BA Report to DEA	Notice of EA for BAs and EIAs
87.	Daniel Jacobus	Fourie	Adjacent Landowners	✓	✓	✓		
88.	Abraham Johannes	Fourie	Adjacent Landowners	✓	✓	✓		
89.	Jacobus Hermanus	Fourie	Adjacent Landowners	✓	✓	✓		
90.	Freddie	Markram	Landowner	✓	✓	✓		
91.	Johannes Hendrikus	Venter	Adjacent Landowners	✓	✓	✓		
92.	Helena Susana Elizabeth	Steyn	Adjacent Landowners	✓	✓	✓		
93.	Gert Johannes	Markram	Adjacent Landowners	✓	✓	✓		
94.	Clive	Albutt	Landowner	✓	✓	✓		
95.	Alhoff (Pty) Ltd		Landowner	✓	✓	✓		
96.	Dihan Eiendoms Trust		Adjacent Landowners	✓	✓	✓		
97.	Henque 3516 CC		Adjacent Landowners	✓	✓	✓		
98.	Sishen Iron Ore Company (Pty Ltd)		Landowner	✓	✓	✓		
99.	Ga-Segonyane (Kuruman) Local Municipality		Landowner	✓	✓	✓		
100	PEJ en CJFC	Duvenhage	Adjacent Landowners	✓	✓	✓		

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

No.	First Name	Surname	Company/ Organisation	Notice of Release of Draft Scoping Report for comments	Email: Notice of Submission of Scoping Reports to DEA	Notice of Release of Draft EIA Reports and BA Report	Email: Notice of Submission of EIA Reports and BA Report to DEA	Notice of EA for BAs and EIAs
101	Republic of South Africa	SADF Lohathla Military Base	Landowner	✓	✓	✓		
102	Herman	Laubcher	Adjacent Landowners	✓	✓	✓		
103	Jacobus Petrus	Steenkamp	Adjacent Landowners	✓	✓	✓		
104	Bestwood Family Trust		Adjacent Landowners	✓	✓	✓		
105	PZK BELEGGINGS 3000 CC		Adjacent Landowners	✓	✓	✓		
106	KATHU MOTORS CC		Adjacent Landowners	✓	✓	✓		
107	Gerhard Theron Family Trust (IT2587/1)		Adjacent Landowners	✓	✓	✓		
108	LP, LJ, ME and J	Steyn	Adjacent Landowners	✓	✓	✓		
109	JJ and DM	Waldeck	Adjacent Landowners	✓	✓	✓		
110	Jan Johannes	Coetzee	Adjacent Landowners	✓	✓	✓		
111	Louisa Petronella	Rossouw	Adjacent Landowners	✓	✓	✓		
112	Norman and Hannelie	Du Plooy	Adjacent Landowners	✓	✓	✓		
113	Susara Magrieta	De Klerk	Adjacent Landowners	✓	✓	✓		
114	Alfred	Markram	Adjacent Landowners	✓	✓	✓		

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

No.	First Name	Surname	Company/ Organisation	Notice of Release of Draft Scoping Report for comments	Email: Notice of Submission of Scoping Reports to DEA	Notice of Release of Draft EIA Reports and BA Report	Email: Notice of Submission of EIA Reports and BA Report to DEA	Notice of EA for BAs and EIAs
115	Tramab CC (1989/027778/23)		Adjacent Landowners	✓	✓	✓		
116	Sishen Iron Ore Company (Pty) Ltd		Adjacent Landowners	✓	✓	✓		
117	Chris	Nel	Adjacent Landowners	✓	✓	✓		
118	Clive	Albutt	Adjacent Landowners	✓	✓	✓		
119	Jacob	Venter	Adjacent Landowners	✓	✓	✓		
120	Johannes Hendrikus	Venter	Adjacent Landowners	✓	✓	✓		
121	Baloka Trust (IT409/2000)		Adjacent Landowners	✓	✓	✓		
122	Hennie	Joubert	Adjacent Landowners	✓	✓	✓		
123	Corheim CC		Adjacent Landowners	✓	✓	✓		
124	Hendan Boerdery CC		Adjacent Landowners	✓	✓	✓		
125	Hans	Kruger	Adjacent Landowners	✓	✓	✓		
126	Sarel Johannes	Koortz	Adjacent Landowners	✓	✓	✓		
127	Wouter	Naude	Adjacent Landowners	✓	✓	✓		
128	Anna Rita	Jordaan	Adjacent Landowners	✓	✓	✓		

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

No.	First Name	Surname	Company/ Organisation	Notice of Release of Draft Scoping Report for comments	Email: Notice of Submission of Scoping Reports to DEA	Notice of Release of Draft EIA Reports and BA Report	Email: Notice of Submission of EIA Reports and BA Report to DEA	Notice of EA for BAs and EIAs
129	Carel Reitz Family Trust (IT179/97)		Adjacent Landowners	✓	✓	✓		
130	Transnet Ltd		Adjacent Landowners	✓	✓	✓		
131	Naftalia Boerdery CC		Adjacent Landowners	✓	✓	✓		
132	Johan Lambrecht Trust (IT6/1998)		Landowner	✓	✓	✓		
133	Johan	Voster	Adjacent Landowners	✓	✓	✓		
134	Freddie	Markram	Landowner	✓	✓	✓		
135	Sarel JP and Aletta MJ	Du Plessis	Landowner	✓	✓	✓		
136	Freddie Markram Familie Trust		Landowner	✓	✓	✓		
137	Gamagara Local Municipality		Adjacent Landowners	✓	✓	✓		
138	Petrus Retief	Malan	Adjacent Landowners	✓	✓	✓		
139	Mathys Machiel	Basson	Adjacent Landowners	✓	✓	✓		
140	ME	Van Rooyen	Adjacent Landowners	✓	✓	✓		
141	Eskom Holdings Ltd		Adjacent Landowners	✓	✓	✓		
142	South African National Roads Agency Ltd		Landowner	✓	✓	✓		

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

No.	First Name	Surname	Company/ Organisation	Notice of Release of Draft Scoping Report for comments	Email: Notice of Submission of Scoping Reports to DEA	Notice of Release of Draft EIA Reports and BA Report	Email: Notice of Submission of EIA Reports and BA Report to DEA	Notice of EA for EIAs
143	Sarel Jacobus	Coetzee	Adjacent Landowners	✓	✓	✓		
144	Jacobus Hermanus	Fourie	Adjacent Landowners	✓	✓	✓		
145	Gert Johannes	Markram	Adjacent Landowners	✓	✓	✓		
146	Dana	Poolman	Nearby Landowner		✓	✓		
147	SJ	Coetzee	Nearby Landowner		✓	✓		
Distribution								
148			Kathu Public Library					
149			Kuruman Public Library					



MULILO
RENEWABLE PROJECT DEVELOPMENTS

Environmental Impact Assessment for the
proposed Kuruman Phase 2 Wind Energy
Facility near Kuruman in the Northern Cape

Draft Environmental Impact Assessment Report

APPENDIX D:

Public Participation

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D1: Notice boards

Site Notice Board-Afrikaans

GEÏNTEGREERDE OPENBARE DEELNAME PROSES VIR DIE VOORGESTELDE ONTWIKKELING VAN DIE KURUMAN FASE 1 EN 2 WIND ENERIE AANLEGTE EN ONDERSTEUNENDE ELEKTRIESE INFRASTRUKTUUR, KURUMAN, NOORD-KAAP PROVINSIE

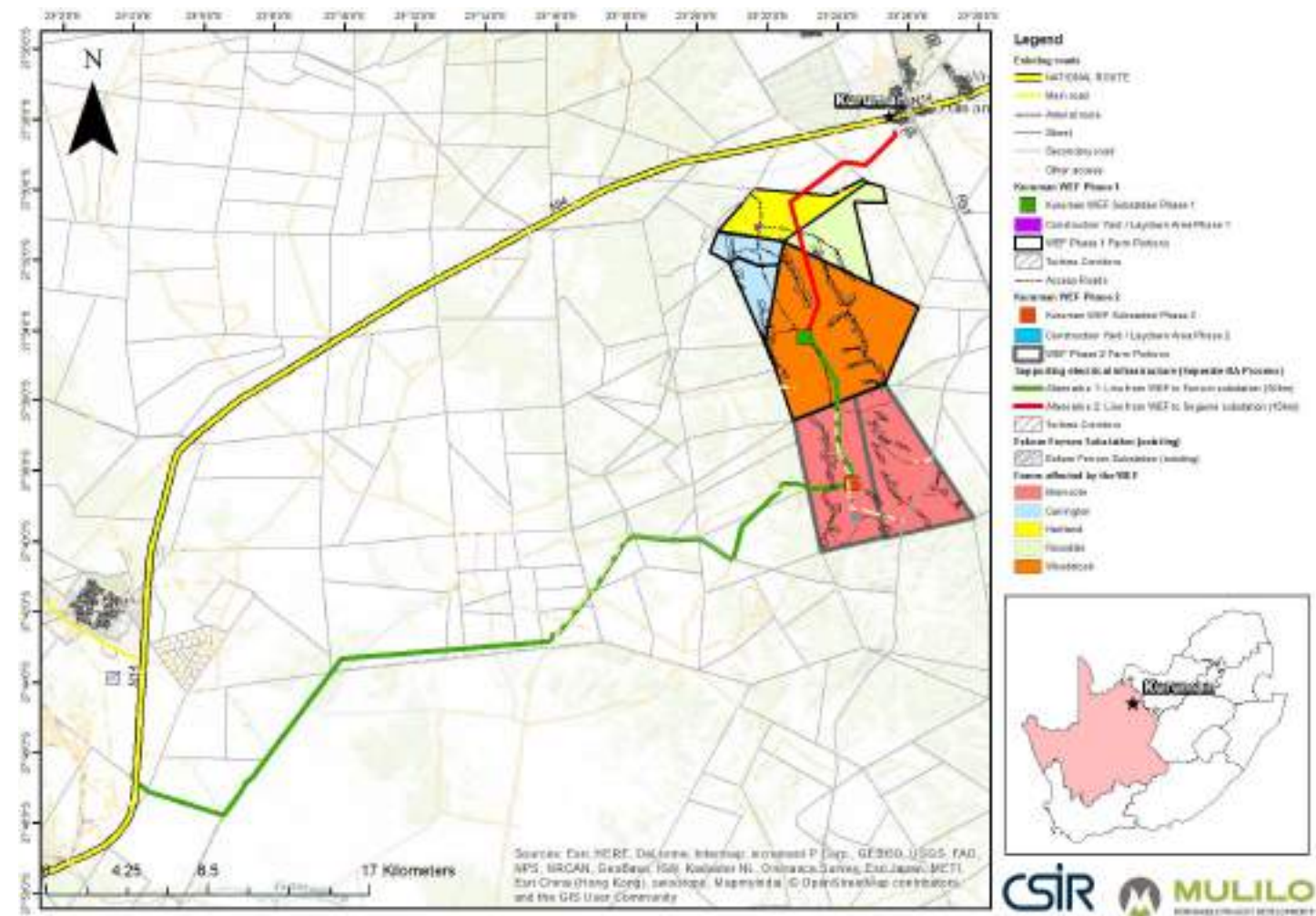
Mulilo Renewable Project Developments (Pty) Ltd (“Mulilo”) is van voorneme om ‘n twee wind energie aanlegte, naamlik Kuruman Fase 1 en Kuruman Fase 2 en ondersteunende elektriese infrastruktuur in die Ga-Segonyana plaaslike munisipaliteit en die John Taolo Gaetsewe distrik munisipaliteit, 8 km en 37 km suid-wes van Kuruman en Kathu, onderskeidelik, op te rig. Die projekte word voorgestel om energie te genereer wat in die nasionale elektriese sisteem sal invoer.

Die onderstaande figuur dui die plase aan wat deur die wind energie aanlegte en elektriese infrastruktuur geaffekteer gaan word. Aangesien die wind energie aanlegte en elektriese infrastruktuur in dieselfde geografiese area voorgestel word, word ‘n geïntegreerde openbare deelname proses voorgestel. Aparte aansoeke vir die onderskeie ontwikkelings sal by die Nasionale Department van Omgewingsake (DOS) ingedien word.

Die Wetenskaplike Nywerheids- en Navorsingsraad (WNNR) is aangestel as die onafhanklike Omgewingspraktisyn om die omgewingsimpakstudie prosesse te bestuur.

Ingevolge die Nasionale Omgewingsbestuurswet (Wet 107 van 1998, soos gewysig) (NEMA) en die 2014 NEMA Omgewingsimpakstudie Regulasies, soos gewysig, kan die volgende gelyste aktiwiteite van toepassing wees op die voorgestelde wind energie aanlegte: GN R 327 Listing Notice (LN) 1: 11, 12, 14, 19, 24, 56; GN R. 325 LN 2: 1, 15; GN R. 324 LN 3: 4, 10, 12, 14, 18; en die elektriese infrastruktuur: LN1: 11, 12, 19; LN 3: 12, 14. ‘n Waterverbruikslisensie aansoek sal ook ingedien word vir die wind energie aanlegte en ondersteunende elektriese infrastruktuur soos bepaal deur die Nasionale Water Wet (Wet 36 van 1998, soos gewysig).

‘n Agtergrond Inligtingsdokument (AID) is beskikbaar by die Kuruman openbare biblioteek, op die hoek van Foskor & Voortrekker Straat en die Kathu openbare biblioteek, 38 Kromhout straat, Kathu en op die webtuiste: <http://www.csir.co.za/eia/kuruman.html>. Sou u geïnteresseerd wees om te registreer as ‘n Geïnteresseerde of Belanghebbende Party (G&BP) en/of om kommentaar op die voorgestelde projekte te lewer, word u vriendelik versoek om u naam, kontakligting (voorkeur aan kommunikasie metode bv. E-pos, faks of pos) asook ‘n aanduiding van enige finansiële, direkte besigheid, persoonlike of ander redes vir u belangstelling in die projekte aan Lizande Kellerman, adres: Posbus 320, Stellenbosch, 7599 Faks: 021 888 2693 of e-pos: LKellerman@csir.co.za te stuur. Die registrasie periode is tot en met **28 Maart 2018** (uitsluitend openbare vakansiedae).



Site Notice Board-English

INTEGRATED PUBLIC PARTICIPATION PROCESS FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND 2 WIND ENERGY FACILITIES AND SUPPORTING ELECTRICAL INFRASTRUCTURE TO THE PROPOSED WIND ENERGY FACILITIES, KURUMAN, NORTHERN CAPE PROVINCE

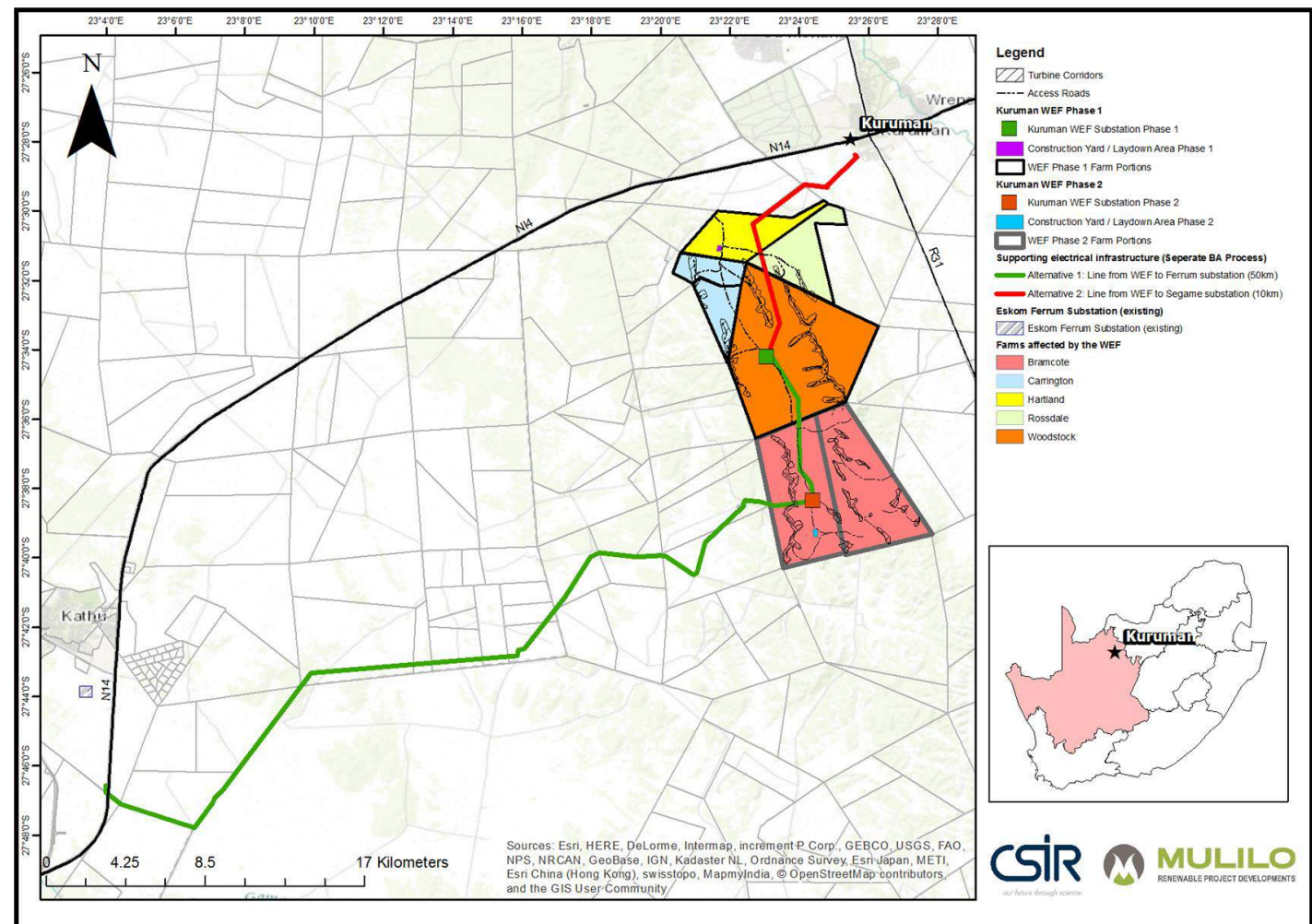
Mulilo Renewable Project Developments (Pty) Ltd (hereafter, “Mulilo”) is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province. The proposed projects are being developed to generate electricity via wind energy which will feed into and supplement the national electricity grid.

The respective farms portions affected by the two WEFs and the supporting electrical infrastructure and the relative location of the proposed projects are shown below. Since the WEFs and supporting electrical infrastructure are proposed within the same geographical area, an integrated Public Participation Process (PPP) will be undertaken for the proposed projects. However, separate applications for Environmental Authorisation (EA) will be lodged with the National Department of Environmental Affairs (DEA).

The Council for Scientific and Industrial Research (CSIR) as been appointed as the independent Environmental Assessment Practitioner (EAP) to manage the Environmental Impact Assessment (EIA) for the proposed wind farms and the Basic Assessment (BA) process for the proposed supporting electrical infrastructure.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations (as amended) the proposed WEFs potentially trigger the following activities, GN R. 327 Listing Notice (LN) 1: 11, 12, 14, 19, 24, 56; GN R. 325 LN 2: 1, 15; GN R. 324 LN 3: 4, 10, 12, 14, 18; and the supporting electrical infrastructure: LN1: 11, 12, 19; LN 3: 12, 14. A Water Use Licence Application will also be submitted for the WEFs and supporting electrical infrastructure in accordance with the National Water Act (NWA) (Act No. 36 of 1998, as amended).

A Background Information Document (BID) is also available at the Kuruman Public Library, Corner of Foskor & Voortrekker Street and the Kathu Public Library, 38 Kromhout Street, Kathu and on the following website: <http://www.csir.co.za/eia/kuruman.html>. Should you be interested in registering as an Interested and Affected Party (I&AP) and to provide comments on these proposed projects, you are kindly requested to email, fax or mail your name, contact details (preferred method of notification, e.g. e-mail address or fax number) and an indication of any direct business, financial, personal or other interest which they have in the applications to the CSIR Lizande Kellerman, address: PO Box 320, Stellenbosch, 7599 Fax: 021 888 2693 or email: LKellerman@csir.co.za. The registration period will extend to 28 March 2018 (excluding public holidays).



D2a: Newspaper Advertisement ("Kathu Gazette" dated 24 February 2018)

24 Februarie / February / Thakole 2018 • KATHU GAZETTE
11

POSTMASBURG

NG-kerk Prettdag vol pret en lewe

Mimi Swart




Eerste, Nadia van Staden (middel in Twee jongelinge wat die 15km fietswedren voltooi het; Naude foto) tweede Karlien Goosen en derde Piensar en Mienie Pretorius saam met René van Niekerk die organiseerder.

Saterdag 17 Februarie 2018 was daar nie tyd vir laat slaap nie, want die eerste item, van die jaarlikse Sportdag het alreeds om 07:00 die wiele laat rol toe die bergfietsse waggiesing het op die 60km roete.

Die inskrywings het reeds 05:30 begin. Drafstap-, trailrun- en bergfietsse, oor verskillende afstande, en ook 'n roete vir kinders het dit moontlik gemaak dat elkeen kan deelneem.

Hierdie sportdag wat aanvanklik 'n projek van die NG-kerk was vir die insamelingfonds vir kinderhuise, se momentum het toegeneem sodat dit nou 'n algemene insameling is waarvan die fondse wyer aangewend kan word. Na verveem word is byna R30 000 ingesamel.

Die wegspringpunt was die Hoërskoolgronde in Houtstraat Postmasburg vanwaar daar op die onderskeie roetes "leuensreddende waterpunte" was. In die Noord-Kaap se son is dit vir baie die hoogtepunt van sy roete.

Die roetes is ook duidelik gemerk om nie die swoegendes hulie pad bysterse laat raak nie.

Natuurlik was eetgoed en koel-

drank 'n vanselfsprekende deel van so 'n opwindende dag. Gelukkige trekklings en goeie pryse was deel van die belonings wat op die vasbytters gewag het.

Die sportdagreënings is deur René van Niekerk hanteer. Vele hande en helpers was egter beskikbaar om al die noodsaaklike take glad te laat verloop.

Groot en klein wat deel van die prettige sportdag was, syp alweer tande vir volgende jaar...

GEÏNTEGREERDE OPENBARE DEELNAME PROSES VIR DIE VOORGESTELDE ONTWIKKELING VAN DIE KURUMAN FASE 1 EN 2 WIND ENERGIË AANLEGTE EN ONDERSTEUNENDE ELEKTRIESE INFRASTRUKTUUR, KURUMAN, NOORD-KAAP PROVINSIE

Mulilo Renewable Project Developments (Pty) Ltd ("Mulilo") is 'n vennootskap wat 'n twee wind energie aanlegte, naamlik Kuruman Fase 1 en Kuruman Fase 2 en ondersteunende elektriese infrastruktuur in die Oos-Segonyane plaaslike munisipaliteit en die John Tsoela Goetsewe dijk nabyvallei, 5 km en 37 km suidwes van Kuruman en Kathu, onderskeidelik, op te rig. Die projek is voorgestel om energie te genereer wat in die staatsrele elektriese raamwerk sal vloei.

Aangesien die wind energie aanlegte en elektriese infrastruktuur in die omliggende gebied voorgestel word, word 'n geïntegreerde openbare deelname proses voorgestel. Aparte versoeke vir die onderrele ontwikkelings sal by die Nasionale Departement van Omgewingsake (DO) ingedien word.

Die Wetenskaplike Nyeheid- en Navorsingsraad (WVNR) is aangestel deur Mulilo as die onafhanklike Omgewingsakepanel wat om die inligtings proses te bestuur.

Ingevolge die Nasionale Omgewingsakewet (Wet 107 van 1998, soos gewysig) (NEMA) en die 2014 NEMA Omgewingsakepanelde Regulasie, soos gewysig, kan die volgende gelyke aktiwiteite van toepassing wees op die voorgestelde wind energie aanlegte: GN R 327 Lising Nofies (LN) 1, 11, 12, 14, 19, 24, 56; GN R 325 LN 2: 1, 15; GN R 324 LN 3: 4, 10, 12, 14, 18; en die elektriese infrastruktuur: LN: 11, 12, 19; LN 3: 12, 14. 'n Waterbruiktoelatingsoek sal ook ingedien word vir die wind energie aanlegte en ondersteunende elektriese infrastruktuur soos bepaal deur die Nasionale Water Wet (Wet 36 van 1998, soos gewysig).

'n Agtergrond inligtingsdokument (AD) is beskikbaar by die Kammer openbare biblioteek, op die hoek van Foster & Voortrekker Straat in die Kathu openbare biblioteek, 38 Kromhout Straat, Kathu en op die webwerf: <http://www.csk.co.za/eng/kuruman.html>. So u geïnteresseerd was om te registreer as 'n Geïnteresseerde of Belanghebbende Party (GBB) en/of om kommentaar op die voorgestelde projek te lewer, word u versoek om u naam, kontakligging (soortoor of kommunikasie metode by: Epos, faks of pos) ook 'n oorsending van enige bewyse, insluitende bevestiging, persoonlike of ander redes vir u belangstelling in die projek aan Lizette Kellerman, adres: Foster 320, Stellenbosch, 7599. Faks: 021 868 2693 of epos: Lkellerman@csir.co.za te stuur.

Die registrasie periode is tot en met **26 Maart 2018** (sluitend openbare versameling).



KATHU

High School Kathu celebrates Valentine's Day




Teachers enjoying themselves on Valentine's day at High School Kathu on 14 February. The theme was "Flower Power".

NOTIFICATION OF PUBLIC PARTICIPATION PROCESS

Pan African Mineral Development (Pty) Ltd (PAMDC) is pursuing an integrated application for a Prospecting Right in terms of Section 19 of the Mineral and Petroleum Resources Development Act, 2002 (MPRDA); and Environmental Authorisation for activities listed in terms of the National Environmental Management Act, 1998 (NEMA) EIA Regulations (GNR902 of 2014) for various minerals across several properties within the Joe Morolong Local Municipality in the Northern Cape Province. The site is located 57 km north-east of Kuruman and includes Farm 703 Ptn 31, 32, 41, 42, 43, 49, 50, 59, 60, 75, 100, 106, 114; Farm 709 Ptn 1 and Re; and Farm 710 Ptn 1 and Re.

Prospecting activities will entail both non-invasive and invasive (soiling) methods.

Environmental Authorisation is required in terms of listing notice 1, GN9965 of 2014; no. 20 (Prospecting Right Application) and no. 27 (clearing of vegetation). The listed activities require that a Basic Assessment process be undertaken.

Prime Resources (Pty) Ltd has been appointed as the Environmental Assessment Practitioner to facilitate the above process.

REGISTER AS AN INTERESTED OR AFFECTED PARTY (IAP)

Individuals and organisations can register as the IAP database or request additional information by submitting their contact details to Prime Resources.

To register, SMS "PAMDC Project" followed by your name and contact number to 071 164 7566, or email prres@resources.co.za.

PUBLIC COMMENT INVITED

The Basic Assessment Report can be viewed from 23 February 2018 on the Prime Resources website or provided by email upon request. Please forward comment to Prime Resources by 26 March 2018.

For more information, please contact Jonathan van de Woude or Bronwyn Grover at Prime Resources. (T) 011 447 4868 (F) 086 604 2219 (E) prres@resources.co.za (W)

KITSISO KA GA TIREGO YA BOTSAYAKAROLO MO BATHONG BOTLHE

Tlhabo ya Dikarolo ya Pan African Mining Pan African Mineral Development (PTY) Ltd (PAMDC) e tsebeletsa kopano e e kgotsofatseng ya "Flower Power" e e Solofatseng go ya ka Karolo 16 ya mabota wa Thabolelo ya Dikarolo ya Dikarolo ka Dikarolo ka Dikarolo le Pterolomane, 2002 (MPRDA) le Thabolelo ya Thabolelo ya Dikarolo go ya ka Maitso wa Botlho ya Botlho ya Botlho ya Botlho (National Environmental Management Act) 1998 (NEMA) Maitso wa EIA (GNR902 ya 2014) mo dikarolong tse di fantseng go naka ditso di le nnete, mo Maitso wa Solofa wa Morolong kwa Pterolomane ya Kapa Botlho. Goitso se beboe dikarolo tse di 57 kwa bokone-botlho jwa Kuruman nnete se dikarolo: Polesi ya 703 Ptn, 31, 32, 41, 42, 43, 49, 50, 59, 60, 75, 100, 106, 114; Polesi ya 709 Ptn 1 le Re; le Polesi ya 710 Ptn 1 le Re.

Dikarolo tse di solofatseng di tsa akarola mekgwa e e fantseng e e solofatseng e e potsofatseng.

Tlhabo ya Thabolelo e tsebeletsa go ya ka Karolo 1, GN9965 le 2014; no. 20 (Kopano ya Thabolelo e e Solofatseng) le no. 27 (Tlhabo ya Dikarolo). Dikarolo tse di mo karolong di tsebeletsa go ya ka Thabolelo ya Dikarolo ya Dikarolo.

Prime Resources (Pty) Ltd e tsebeletsa jwaka Maitso wa Thabolelo ya Dikarolo go tsebeletsa tlhabo e e fantseng.

IKWADISE JAAGA LEKOKO LE LE NANG LE KGATLHEGO NGOTSA LE LE AMEGANG. (IAP)

Bebo ka bongwe le mekgwa tse ka lewadi mo karolong le dikarolo tse mo dikarolong le IAP. Kgoteba kopano tlhabo maitso ya tlhabo ka go naka tlhabo tsebeletsa go tsebeletsa Prime Resources.

Go itegetsa, dir maitso tsebeletsa tlhabo tsebeletsa go "PAMDC Project" go lewadi lewadi lewadi go gaga ya mekgwa mo maitso go 071 164 7566; kgoteba tlhabo go prres@resources.co.za.

TSHWAELA YA BOTLHE E A LALEDIWA

Paga ya Thabolelo tsebeletsa e ka lewadi go tsebeletsa go tsebeletsa go Prime Resources kgoteba go naka tlhabo tsebeletsa go tsebeletsa go tsebeletsa go Prime Resources ka le 26 Maitso wa 2018.

Go bona tlhabo tsebeletsa e e fantseng e, kgotebanya le Jonathan van de Woude kgoteba Bronwyn Grover kwa Prime Resources. (T) 011 447 4868 (F) 086 604 2219 (E) prres@resources.co.za (W)

D2b: Newspaper Advertisement ("Kathu Gazette" dated 19 May 2018)



Mooi oomblikke van Mnr en Mej Laerskool Kathu

Tydens die aand van Meneer en Mejuffrou Laerskool Kathu se kroning wat op Dinsdagaand, 8 Mei, gehou is het die deelnemers geleentheid gehad om verskeie mooi en oorspronklike uitrustings aan te trek. Hier volg 'n paar hoogtepunte van die aand. Die wenner was "Principals choice: Boitshepo Mafura, Meneer Macho, Zander Steenkamp, Meneer Sjamant, Jano du Plessis, Mejuffrou Persoonlikheid, Shakeera Geweld, Mejuffrou Fotogenies, Lynné van Wyk, Tweede Prins, Wenzel Hibert, Eerste Prins, Jacques Kuhn, Meneer Laerskool, Stephan Brits, Tweede Prinses, Sharika Roussouw, Eerste Prinses, Kriessie Cloete en Mejuffrou Laerskool, Marga van Zyl.

Die Laerskool bedank graag hul borge: Emodels Kathu, Spur, Trappers, Wimpy, Marinell Beauty Salon, Albabross, Doringdraad Deben, Beauty for Ashes Salon, Spar en Hettie du Plessis. Dankie dat julle die mooi aand moontlik gemaak het.

VRYSTELLING VAN DIE KONSEP BESTEK OPNAME VERSLAE EN KENNISGEWING VAN KOMMENTAAR PERIODE VIR DIE VOORGESTELDE ONTWIKKELING VAN DIE KURUMAN FASE 1 EN FASE 2 WIND ENERGIË AANLEGTE EN ONDERSTEUNENDE ELEKTRIESE INFRASTRUKTUUR, KURUMAN, NOORD-KAAP PROVINSIE

Mulilo Renewable Project Developments (Pty) Ltd (hierna "Mulilo") is van voorneme om twee wind energie aanlegte, naamlik Kuruman Fase 1 en Kuruman Fase 2 en ondersteunende elektriese infrastruktuur in die Ga-Segonyana Plaaslike Munisipaliteit en die John Taolo Gaetsewe Distrik Munisipaliteit, 8 km en 37 km suid-wes van Kuruman en Kathu, onderskeidelik, op te rig. Die projekte word voorgestel om energie te genereer wat in die nasionale elektriese sisteem sal invoer.

Aangesien die wind energie aanlegte en elektriese infrastruktuur in dieselfde geografiese area voorgestel word, word 'n geïntegreerde openbare deelname proses gevolg. Aparte aansoeke vir die onderskeie ontwikkelings sal by die Nasionale Departement van Omgewingsake (DOS) ingedien word.

Die Wetenskaplike Nywerheids- en Navorsingsraad (WNNR) is deur Mulilo aangestel as die onafhanklike Omgewingsimpakpraktisyn om die impakstudie proses te bestuur.

Ingevolge die Nasionale Omgewingsbestuurswet [Wet 107 van 1998, soos gewysig] (NEMA) en die 2014 NEMA Omgewingsimpakstudie Regulasies, soos gewysig, kan gelyste aktiwiteite vervat in GN R. 327 Listing Notice [LN] 1, GN R. 325 LN 2 en GN R. 324 LN 3 van toepassing wees op die voorgestelde wind energie aanlegte; asook gelyste aktiwiteite vervat in GN R. 327 LN 1 vir doeleindes van die ondersteunende elektriese infrastruktuur. 'n Waterverbruiksinsensie aansoek sal ook ingedien word vir die wind energie aanlegte en ondersteunende elektriese infrastruktuur soos bepaal deur die Nasionale Water Wet [Wet 36 van 1998, soos gewysig].

Die Konsep Bestek Opname verslae vir die voorgestelde Kuruman Fase 1 en Fase 2 wind energie aanlegte is tans beskikbaar vir 'n 30-dae kommentaar periode by die Kuruman Openbare Biblioteek, geleë op die hoek van Skool & Voortrekker Straat in Kuruman, en die Kathu Openbare Biblioteek, geleë op die hoek van Frikkie Meyer en Hendrik van Eck Straat in Kathu, asook op hierdie webtuiste: <https://www.csir.co.za/environmental-impact-assessment> Sou u belangstel om kommentaar te lewer op hierdie konsep bestek opname verslae, word u vriendelik versoek om u kommentaar te stuur aan die WNNR Projekbestuurder, Me. Lizande Kellerman voor of op 21 Junie 2018 na die volgende kontakbesonderhede: Adres: Posbus 320, Stellenbosch, 7599; Faks: 021 888 2693 of epos: LKellerman@csir.co.za. Dui asb aan of u kommentaar van toepassing is op die Kuruman Fase 1 of Kuruman Fase 2 wind energie aanlegte, of op albei van die genoemde projekte.

MULILO RENEWABLE PROJECT DEVELOPMENTS **CSIR** our future through science

RELEASE OF DRAFT SCOPING REPORTS AND NOTIFICATION OF COMMENT PERIOD FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES AND SUPPORTING ELECTRICAL INFRASTRUCTURE, KURUMAN, NORTHERN CAPE PROVINCE

Mulilo Renewable Project Developments (Pty) Ltd (hereafter "Mulilo") is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province. The proposed projects are being developed to generate electricity via wind energy which will feed into and supplement the national electricity grid.

Since the WEFs and supporting electrical infrastructure are proposed within the same geographical area, an integrated Public Participation Process (PPP) will be undertaken for the proposed projects. However, separate applications for Environmental Authorisation (EA) have been lodged with the National Department of Environmental Affairs (DEA) for the Kuruman Phase 1 WEF and the Kuruman Phase 2 WEF Environmental Impact Assessments (EIAs). A separate application will be submitted to undertake the Basic Assessment (BA) for the supporting electrical infrastructure component.

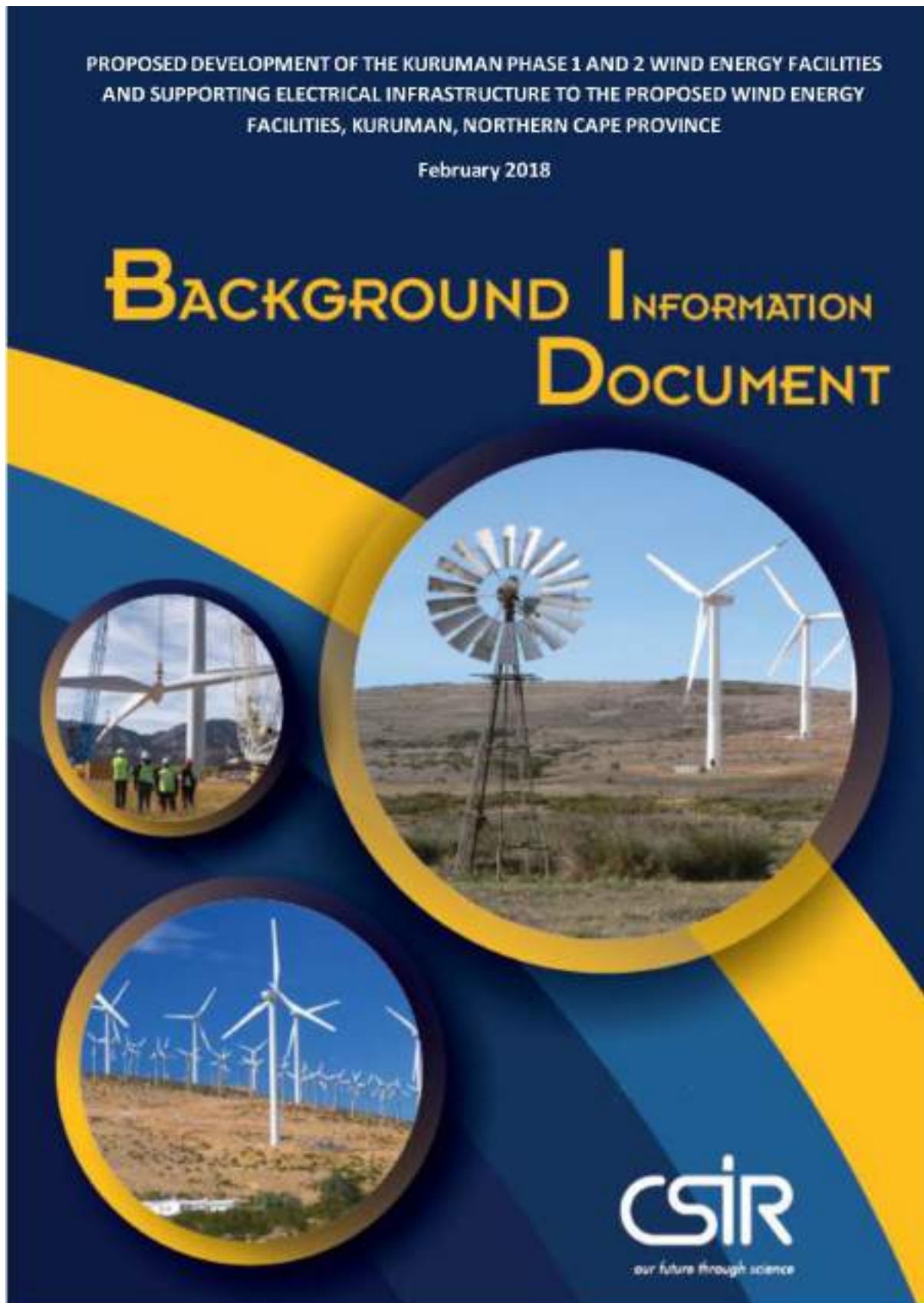
The Council for Scientific and Industrial Research (CSIR) has been appointed as the independent Environmental Assessment Practitioner (EAP) to manage the EIA processes for the proposed wind farms and the BA process for the proposed supporting electrical infrastructure.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations (as amended) the proposed WEFs potentially trigger listed activities in GN R. 327 Listing Notice [LN] 1, GN R. 325 LN 2 and GN R. 324 LN 3; and the supporting electrical infrastructure: GN R. 327 LN 1. A Water Use Licence Application will also be submitted for the WEFs and supporting electrical infrastructure in accordance with the National Water Act (NWA) (Act No. 36 of 1998, as amended).

The Draft Scoping Reports for the proposed Kuruman Phase 1 and Kuruman Phase 2 WEFs are currently being released for a 30-day commenting period ending 21 June 2018. Hard copies of the Draft Scoping Reports are available at the Kuruman Public Library, Corner of Skool & Voortrekker Street, Kuruman, and the Kathu Public Library, Corner of Frikkie Meyer and Hendrik van Eck Street, Kathu, as well as on the following website: <https://www.csir.co.za/environmental-impact-assessment> Should you wish to provide comments on these Draft Scoping Reports, you are kindly requested to submit your comments before or on 21 June 2018 to the CSIR Project Manager, Ms Lizande Kellerman at the following contact details: Address: PO Box 320, Stellenbosch, 7599 Fax: 021 888 2693 or email: LKellerman@csir.co.za. Please mark your comments for the Kuruman Phase 1 WEF or the Kuruman Phase 2 WEF or indicate if your comments refer to both projects.

MULILO RENEWABLE PROJECT DEVELOPMENTS **CSIR** our future through science

D3: Background Information Document



BACKGROUND INFORMATION DOCUMENT

INTEGRATED PUBLIC PARTICIPATION PROCESS FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND 2 WIND ENERGY FACILITIES AND SUPPORTING ELECTRICAL INFRASTRUCTURE TO THE PROPOSED WIND ENERGY FACILITIES, KURUMAN, NORTHERN CAPE PROVINCE

BACKGROUND

Mullio Renewable Project Developments (Pty) Ltd (hereafter, "Mullio") is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province. The proposed projects are being developed to generate electricity via wind energy which will feed into and supplement the national electricity grid.

The respective farms portions affected by the two WEFs and the supporting electrical infrastructure and the relative location of the proposed projects are shown on the opposite page. Since the WEFs and supporting electrical infrastructure are proposed within the same geographical area, an Integrated Public Participation Process (PPP) will be undertaken for the proposed projects. However, separate applications for Environmental Authorisation (EA) will be lodged with the National Department of Environmental Affairs (DEA).

The Council for Scientific and Industrial Research (CSIR) has been appointed as the Independent Environmental Assessment Practitioner (EAP) to manage the Environmental Impact Assessment (EIA) for the proposed wind farms and the Basic Assessment (BA) process for the proposed supporting electrical infrastructure.

AIM OF THIS DOCUMENT

The aim of this Background Information Document (BID) is to provide Interested and Affected Parties (I&APs) with:

- Background information on the proposed projects;
- A description of the combined Environmental Authorisation and Public Participation Processes (PPP) that will be undertaken for the projects;
- Details on how I&APs can become involved in the proposed projects by registering their interest in the projects, raising issues of concern or interest, and receiving further information.

As a registered I&AP, there will be opportunities for involvement in the EIA process by receiving information, the contribution of issues and commenting on draft reports. The input received from I&APs together with the information and assessment provided by the EAP, will assist the Competent Authority, the DEA, with their decision making process.

NEED AND JUSTIFICATION OF THE PROPOSED PROJECTS

The need to reduce greenhouse gas emissions and the importance of a secure and diversified energy supply has resulted in a global shift towards, and an increased focus on, the use of renewable energy technologies. In support of this, the national government has encouraged the utilisation of renewable energy through national policy and strategic planning.

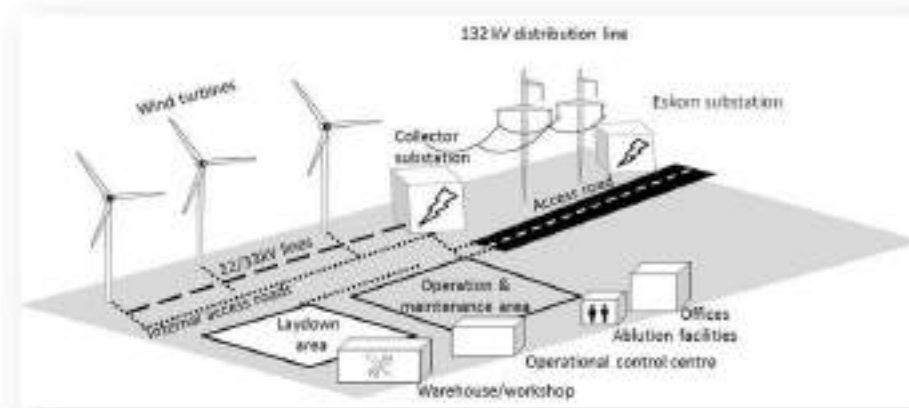
The Integrated Resource Plan (IRP) for South Africa for the period 2010 to 2030 (referred to as "IRP2010") and the IRP Updated Report (2013) proposes to secure 17 800 MW of renewable energy capacity by 2030. The Department of Energy (DOE) has subsequently entered into a bidding process for the procurement of 3 725 MW of renewable energy from Independent Power Producers (IPPs) by 2016 and beyond to enable the Department to meet this target. On 18 August 2015, an additional procurement target of 6 300 MW to be generated from renewable energy sources was added to the Renewable Energy Independent Power Producer Procurement Programme (REIPPPP) for the years 2021 - 2025, as published in Government Gazette 39111. The additional target allocated for wind energy, solar PV energy, and solar CSP energy is 3 040 MW, 2 200 MW, and 600 MW respectively. Linked to this, in 2011, the Department of Energy (DOE) launched the REIPPPP and invited potential IPPs to submit proposals for the financing, construction, operation and maintenance of the first 3 725 MW of onshore wind, solar thermal, solar PV, biomass, biogas, landfill gas or small hydro projects. The bidders with the highest rankings (according to the aforementioned criteria) are appointed as "Preferred Bidders" by the DoE.

The proposed projects aim to contribute to the above strategic imperative.

WHAT DO THE PROPOSED PROJECTS ENTAIL?

The proposed projects will be situated on land that is owned by a third party and as such, consent will be obtained from the respective landowners for the development of the WEFs. It is anticipated that the properties on which the proposed projects will be constructed will be leased from the landowners.

It is proposed that each WEF will have a generation capacity of between 200 - 240 MW. The anticipated maximum amount of turbines to be constructed for each project is 52. These turbines will have a turbine height of 140 m and a rotor diameter of 80 m. In order to connect the proposed WEFs to the national grid, supporting electrical infrastructure would need to be constructed. This includes a 132 kV distribution line routed either to the Ferrum substation (located in Kathu) or to the Segame substation (located in Kuruman) and two collector substations (one for each WEF). Each WEF facility will consist of the components presented in the figure below. The components and their dimensions will be confirmed and discussed within the Scoping & EIA Reports produced for each WEF.



ENVIRONMENTAL AUTHORISATION PROCESS

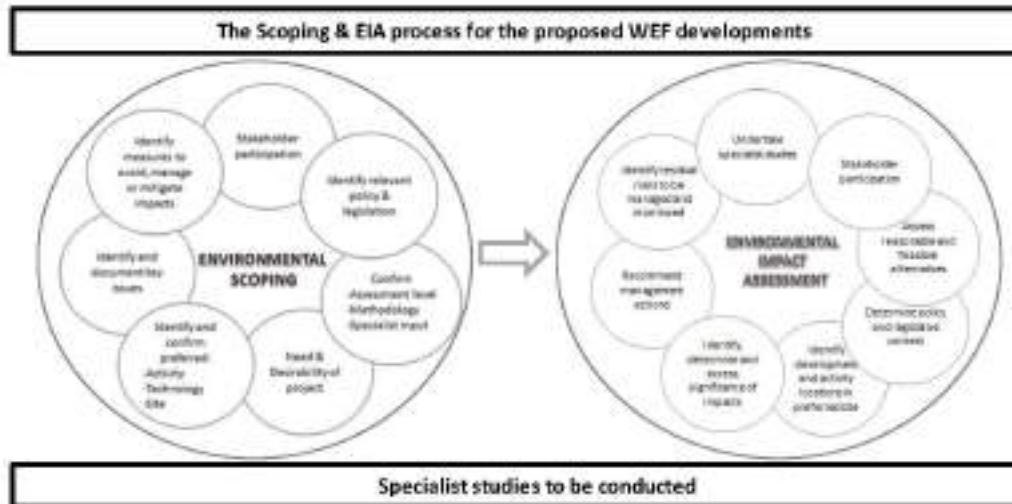
In terms of the National Environmental Management Act (NEMA) (Act no. 107 of 1998) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations, as amended, the proposed projects potentially trigger, amongst others, the following activities:

	WEF	Electrical infrastructure
GN R. 327 listing Notice 1:	11, 12, 14, 19, 24, 56	11, 12, 19
GN R. 325 listing Notice 2:	1, 15	
GN R. 324 listing Notice 3:	4, 10, 12, 14, 18	12, 14

The EIA process is also designed to meet the requirements of the National Heritage Resources Act, 1999 (Act 25 of 1999). A Water Use Licence Application will also be submitted for the WEFs and supporting electrical infrastructure in accordance with the National Water Act (NWA) (Act No. 36 of 1998, as amended).

Note from the CSR: A precautionary approach has been adopted by the CSR when identifying listed activities, in that if there is any doubt at this stage of the project planning whether or not an activity is included in the project design, then the activity is listed. This list may be refined during the course of the Scoping & EIA Processes, and listed triggers may be removed or added as applicable.

The applicable listed activities require EA from the DEA prior to the undertaking thereof. The main steps in Scoping & EIA Process are discussed and shown in the figure below. As also shown in Figure 2, proactive engagement with stakeholders forms a key component of the entire Scoping & EIA Process.



Specialist studies to be conducted

Name	Organization	Specialist Study
Specialists		
Kerry Schwartz	SIVEST	Visual
Mr Wiltshire	CTS Heritage	Heritage (incl. Palaeontology)
Natasha van der Haar	Enviroswell	Freshwater
Werner de Jager	EAR	Noise
Johann Lutz	Private consultant	Soils and Agricultural
Dana Droughton	Libben Eon	Socio-economic
Iris Wink	JS Afrika	Transportation Study
Julian Conrad	GDOS	Geohydrological Study
Simon Toold	Thores Biodiversity Solutions	Terrestrial Ecology (Fauna and Flora)
Chris van Rooyen	Chris van Rooyen Consulting	Avifauna
Werner Marius	Animalia	Bats



Step 1: Notify Authorities and I&APs of the Scoping and EIA Processes (30 days) [WE ARE CURRENTLY AT THIS STEP]

The initial step entails providing notification to Authorities and potential I&APs of the proposed projects and the commencement of the Scoping & EIA Processes. An initial database of potential I&APs and Authorities will be compiled. Authorities and potential I&APs will be provided with a BID (i.e. this document), including a Comment and Registration Form and written notification. Advertisements will also be placed in local newspapers and site notices will be placed at the project sites as well as in the closest towns during this phase.

During this period, I&APs are required to register their interest on the project database in order to be included from the outset of the Scoping & EIA Processes. **In terms of the EIA Regulations, in order to register as an I&AP, a person must provide their comments together with their name, contact details (preferred method of notification, e.g. e-mail address or fax number) and an indication of any direct business, financial, personal or other interest which they have in the application. Failure to do so may lead to a person not being registered as an I&AP for these projects.**

I&APs will be provided with a 30-day review period within which to raise any issues or concerns for inclusion in the Scoping Reports.

Step 2: Preparation of Applications for Environmental Authorisation (EA) and Scoping Reports

Two separate Applications for EA for the proposed WEF developments will be prepared. In addition, the Scoping Reports and a Plan of Study for EA will be compiled in line with Appendix 2 of the 2014 EIA Regulations (GN R526).

All issues and concerns raised by the Authorities and I&APs during the review of the BID will be recorded and compiled into an Issues and Responses Trail for inclusion in the Scoping Reports.

Step 3: Submission of Applications for EA

Submit the Applications for EA for the proposed WEF developments (i.e. a total of two applications) to the National DEA for processing.

Step 4: Authority and I&AP Review of the Scoping Reports (30 days)

The Scoping Reports will be released to the public for a 30-day review period. All Authorities and registered I&APs will be notified in writing of the opportunity to review the Scoping Reports. A Comment and Registration Form will also be sent with the written notification to all registered I&APs. Copies of the Scoping Reports will be placed on the project website (<http://www.csir.co.za/eia/kuruman.html>) and at the local public libraries. The reports will be placed in the following libraries:

- Kuruman Public Library, Corner of Foskor & Voortrekker Street; and
- Kathu Public Library, 38 Kromhout Street, Kathu

Step 5: Commence with the undertaking of Specialist Studies and Submission of Scoping Reports to the National DEA for Decision-Making

The comments received from I&APs during the 30-day review of the Scoping Reports will be recorded into a comprehensive Issues and Responses Trail, and will be included in the Scoping Reports before submission to the DEA. The Scoping Reports will thereafter be finalised and submitted to the DEA for decision making. The DEA will have 43 days (from receipt of the Scoping Reports) to either accept the Scoping Reports with or without conditions, or refuse EA.

All comments received on the Scoping Reports will be responded to within the Issues and Responses Trail. A copy of the Issues and Responses Trail will be sent to all I&APs registered on the project database.

Step 6: Preparation of EIA and BA Reports (including the Environmental Management Programme (EMPr)) and submission of the EA application for the supporting electrical infrastructure

Once the National DEA accepts the Scoping Reports, the Impact Assessment Phase may commence. During this phase, the EIA Reports (including the EMPr) and a BA Report for the supporting electrical infrastructure will be compiled in line with the 2014 EIA Regulations. An EA application will also be compiled for the supporting electrical infrastructure that will be subject to a BA process.

Step 7: Authority and I&AP Review of the EIA and BA Reports (30 days)

During this phase, the EIA and BA Reports will be released to the public for a 30-day review period. All Authorities and registered I&APs on the project database will be notified in writing of the opportunity to review the EIA and BA Reports. A Comment and Registration Form will also be sent with the written notification to all registered I&APs. Copies of the EIA and BA Reports will be placed on the project website and at the local public libraries. Depending on the interest in the project, public meetings may be scheduled.

Step 8: Submission of the EIA and BA Reports to the DEA for Decision-Making

A key component of the process is documenting and responding to the comments received from I&APs and Authorities. The comments received from I&APs during the 30-day review of the EIA and BA Reports will be recorded into a comprehensive Comments and Responses Trail, and will be included in the EIA and BA Reports before submission to the DEA. Following submission of the reports, the DEA will have 10 days (from receipt of the EIA and BA Reports) to acknowledge the reports and thereafter, the DEA will have 107 days to grant or refuse EA.

Step 9: Notification of Environmental Decision and Appeal Period

All registered stakeholders on the project database will be notified in writing of the environmental decision for the proposed projects, and will be informed of the opportunity to appeal.

PUBLIC PARTICIPATION PROCESS

Public involvement forms an important component of the EIA and BA Processes by assisting in the identification of issues and alternatives to be evaluated. The following outlines the steps in the PPP which will be undertaken to run in parallel to the BA and Scoping & EIA Processes.

	PPP action by project team	HOW CAN YOU BE INVOLVED IN THIS PROCESS?
Step 1: Notify Authorities and I&APs of the Scoping and EIA Processes (30 days)	Notify Authorities and I&APs of the project by providing: <ul style="list-style-type: none"> ○ Notification letters ○ Comments & Registration Forms ○ Basic Information Document ○ Newspaper advertisements ○ Site notices 	<ul style="list-style-type: none"> ✓ Register as an I&AP ✓ Provide comments on potential issues that should be considered during the EIA
Step 2: Preparation of Applications for EA, and Scoping Reports		
Step 3: Submission of Applications for EA		
Step 4: Authority and I&AP Review of the Scoping Reports (30 days)	Provide Authority and I&APs with Reports for review	<ul style="list-style-type: none"> ✓ Review Scoping Reports and provide written comment
Step 5: Submission of Scoping Reports to the National DEA for Decision-Making		
Step 6: Preparation of EA and BA Reports and submission of the EA application for the supporting electrical infrastructure		
Step 7: Authority and I&AP Review of the BA and EA Reports and EMP (30 days)	Provide Authorities and I&APs with Reports for review	<ul style="list-style-type: none"> ✓ Review Basic Assessment- and EA Reports and provide written comment
Step 8: Submission of the BA and EA Reports to the National DEA for Decision-Making		
Step 9: Notification of Environmental Decision and Appeal Period	Notify I&APs of the Authority's decision on Environmental Authorisation	<ul style="list-style-type: none"> ✓ Opportunity to lodge appeals

GET INVOLVED!

1. Respond to our invitation for your involvement advertised in local newspapers.
2. Email, fax or mail the attached Comment and Registration Form to CSIR: Lizande Kellerman, address: PO Box 320, Stellenbosch, 7599 Fax: 021 888 2693 or email: LKellerman@csir.co.za.
3. Visit the project website at <https://www.csir.co.za/environmental-impact-assessment> to download relevant project information.
4. Review the various reports within the stipulated comment periods provided.
5. Attend any public meeting, which may be held during the review period.

To register as an I&AP, please complete the Comment and Registration Form included with this BID and kindly return to:

CSIR
 Lizande Kellerman
 PO Box 320, Stellenbosch, 7599
 Email: LKellerman@csir.co.za
 Tel: 021 888 2489

D4: Comments received from I&APS prior to review of the Draft Scoping Report

BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND 2 WIND ENERGY FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE SOUTH-WEST OF KURUMAN, NORTHERN CAPE PROVINCE
CSIR REFERENCE: CSIR/IU/021SE/ER/2018/0001/B)

Project Applicant: Mulilo Renewable Project Developments (Pty) Ltd

COMMENT AND REGISTRATION FORM

09 March 2018

Name: <i>BOIKANLO MODISE</i>	Telephone: <i>053 723 6000</i>
Organisation: <i>GAMAGARA L.M</i>	Fax: <i>053 723 2021</i>
Designation: <i>LED. MANAGER</i>	Email: <i>modiseb@gamagara.co.za</i>
Physical address: <i>GAMAGARA LOCAL M CAR HENDRICK VAN ECK AND FRIKKIE MEYER ROAD KATHU 8446</i>	Postal address: <i>P O Box 1001 KATHU 8446</i>

Please indicate if you would like to register as an Interested and Affected Party (I&AP) for the proposed projects. Registration is required in order to receive further correspondence during the Basic Assessment, Scoping and EIA Processes. Please tick the appropriate box.

YES	<input checked="" type="checkbox"/>
NO	<input type="checkbox"/>

Please indicate if you have any interest (business, financial, personal or other) in the proposed projects and/or the Applications for Environmental Authorisation:

BUSINESS AND ECONOMIC DEVELOPMENT ACTIVITIES

Please describe any issues or concerns you may have regarding the proposed development of the Kuruman Phase 1 and 2 Wind Energy Facilities which you think should be considered during Scoping and EIA processes or the associated electrical infrastructure which you think should be considered during the Basic Assessment process.

- PUBLIC PARTICIPATION*
- LAND USE MANAGEMENT*
- REGISTRATION TO MUNICIPAL IDP DOCUMENT*
-

Please provide details of any other individuals or organisations that should be registered as I&APs:

*TOWN PLANNERS AND RURAL DEVELOPMENT AGENCIES
AVIATION AUTHORITIES*

Please complete this Comment and Registration Form and submit to us by no later than **16 April 2018** and submit it to:

Lizanda Kellerman
 CSIR
 Postal Address: P. O. Box 320, Stellenbosch, 7589
 Tel: 021 888 2489/2061
 Fax: 021 888 2693
 E-mail: lkellerman@csir.co.za



**BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND 2 WIND ENERGY FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE SOUTH-WEST OF KURUMAN, NORTHERN CAPE PROVINCE
CSIR REFERENCE: CSIR/1U/021SE/ER/2018/0001/B)**

Project Applicant: Mulilo Renewable Project Developments (Pty) Ltd

COMMENT AND REGISTRATION FORM

09 March 2018

Name: Dana Poolman	Telephone: 0829206610
Organisation: Farmer	Fax:
Designation: Owner	Email: spitzberg9@gmail.com
Physical address: Farm Spitzberg Kuruman	Postal address: P.O. Box 542, Kuruman

Please indicate if you would like to register as an Interested and Affected Party (I&AP) for the proposed projects. Registration is required in order to receive further correspondence during the Basic Assessment, Scoping and EIA Processes. Please tick the appropriate box.

YES	X
NO	

Please indicate if you have any interest (business, financial, personal or other) in the proposed projects and/or the Applications for Environmental Authorisation:

Business and Personal

Please describe any issues or concerns you may have regarding the proposed development of the Kuruman Phase 1 and 2 Wind Energy Facilities which you think should be considered during Scoping and EIA processes or the associated electrical infrastructure which you think should be considered during the Basic Assessment process.

Environment and Noise

Please provide details of any other individuals or organisations that should be registered as I&APs:

Herman Laubscher, 083 2888887

Please complete this Comment and Registration Form and submit to us by no later than **16 April 2018** and submit it to:

Lizande Kellerman CSIR Postal Address: P. O. Box 320, Stellenbosch, 7529 Tel: 021 888 2489/2501 Fax: 021 888 2893 E-mail: lkellerman@csir.co.za
--



>>> John Geeringh <GeerinJH@eskom.co.za> 12/03/2018 10:41 >>>

Please find attached Eskom requirements for developments near or at Eskom infrastructure. Please send me KMZ files of the affected land portions and proposed power line connector routes.

Kind regards

John Geeringh (Pr Sci Nat)
Senior Consultant Environmental Management
Land Development and Management
Group Capital
Megawatt Park, D1Y42, Maxwell Drive, Sunninghill, Sandton.
P O Box 1091, Johannesburg, 2000.
Tel: 011 516 7233
Cell: 083 632 7663
Fax: 086 661 4064
E-mail: john.geeringh@eskom.co.za



Signature Version 26/02/2018 08:30

Eskom requirements for work at or near Eskom infrastructure.

1. Eskom's rights and services must be acknowledged and respected at all times.
2. Eskom shall at all times retain unobstructed access to and egress from its servitudes.
3. Eskom's consent does not relieve the developer from obtaining the necessary statutory, land owner or municipal approvals.
4. Any cost incurred by Eskom as a result of non-compliance to any relevant environmental legislation will be charged to the developer.
5. If Eskom has to incur any expenditure in order to comply with statutory clearances or other regulations as a result of the developer's activities or because of the presence of his equipment or installation within the servitude restriction area, the developer shall pay such costs to Eskom on demand.
6. The use of explosives of any type within 500 metres of Eskom's services shall only occur with Eskom's previous written permission. If such permission is granted the developer must give at least fourteen working days prior notice of the commencement of blasting. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued in terms of the blasting process. It is advisable to make application separately in this regard.
7. Changes in ground level may not infringe statutory ground to conductor clearances or statutory visibility clearances. After any changes in ground level, the surface shall be rehabilitated and stabilised so as to prevent erosion. The measures taken shall be to Eskom's satisfaction.
8. Eskom shall not be liable for the death of or injury to any person or for the loss of or damage to any property whether as a result of the encroachment or of the use of the servitude area by the developer, his/her agent, contractors, employees, successors in title, and assignees. The developer indemnifies Eskom against loss, claims or damages including claims pertaining to consequential damages by third parties and whether as a result of damage to or interruption of or interference with Eskom's services or apparatus or otherwise. Eskom will not be held responsible for damage to the developer's equipment.
9. No mechanical equipment, including mechanical excavators or high lifting machinery, shall be used in the vicinity of Eskom's apparatus and/or services, without prior written permission having been granted by Eskom. If such permission is granted the developer must give at least seven working days' notice prior to the commencement of work. This allows time for arrangements to be made for supervision and/or precautionary instructions to be issued by the relevant Eskom Manager


Note: Where and electrical outage is required, at least fourteen work days are required to arrange it.

10. Eskom's rights and duties in the servitude shall be accepted as having prior right at all times and shall not be obstructed or interfered with.
11. Under no circumstances shall rubble, earth or other material be dumped within the servitude restriction area. The developer shall maintain the area concerned to Eskom's satisfaction. The developer shall be liable to Eskom for the cost of any remedial action which has to be carried out by Eskom.
12. The clearances between Eskom's live electrical equipment and the proposed construction work shall be observed as stipulated by *Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993)*.
13. Equipment shall be regarded electrically live and therefore dangerous at all times.
14. In spite of the restrictions stipulated by Regulation 15 of the Electrical Machinery Regulations of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), as an additional safety precaution, Eskom will not approve the erection of houses, or structures occupied or frequented by human beings, under the power lines or within the servitude restriction area.
15. Eskom may stipulate any additional requirements to highlight any possible exposure to Customers or Public to coming into contact or be exposed to any dangers of Eskom plant.
16. It is required of the developer to familiarise himself with all safety hazards related to Electrical plant.
17. Any third party servitudes encroaching on Eskom servitudes shall be registered against Eskom's title deed at the developer's own cost. If such a servitude is brought into being, its existence should be endorsed on the Eskom servitude deed concerned, while the third party's servitude deed must also include the rights of the affected Eskom servitude.

John Geeringh (Pr Sci Nat)

Senior Consultant Environmental Management

Eskom GC: Land Development

	SCOT	Technology
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Title: Renewable Energy Generation Plant Setbacks to Eskom Infrastructure

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Compiled by



J W Chetty
Mechanical Engineer

Date: 20/02/2014

Approved by



V Naidoo
Chief Engineer (Lines)

Date: 24/02/2014

Authorised by



R A Vajeth
Acting Snr Manager (Lines)

Date: 27/2/2014

Supported by SCOT/SC



R Vajeth
SCOT/SC/ Chairperson

Date: 27/2/2014

PCM Reference: 240-65132732 LINE ENGINEERING SERVICES
SCOT Study Committee Number/Name : OVERHEAD LINES

Wind Turbine Eskom Setbacks

Unique Identifier: 240-65559775
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Wind Turbine Eskom Setbacks

Unique Identifier: 240-45559775

Revision: 0

Page: 3 of 9

EXECUTIVE SUMMARY

In recent decades, the use of wind turbines, concentrated solar plants and photovoltaic plants have been on the increase as it serves as an abundant source of energy. This document specifies setbacks for wind turbines and the reasons for these setbacks from infrastructure as well as setbacks for concentrated solar plants and photovoltaic plants. Setbacks for wind turbines employed in other countries were compared and a general setback to be used by Eskom was suggested for use with wind turbines and other renewable energy generation plants.

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Wind Turbine Eskom Setbacks

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1. INTRODUCTION

During the last few decades, a large amount of wind turbines have been installed in wind farms to accommodate for the large demand of energy and depleting fossil fuels. Wind is one of the most abundant sources of renewable energy. Wind turbines harness the energy of this renewable resource for integration in electricity networks. The extraction of wind energy is its primary function and thus the aerodynamics of the wind turbine is important. There are many different types of wind turbines which will all exhibit different wind flow characteristics. The most common wind turbine used commercially is the Horizontal Axis Wind Turbine. Wind flow characteristics of this turbine are important to analyse as it may have an effect on surrounding infrastructure.

Wind turbines also cause large turbulence downwind that may affect existing infrastructure. Debris or parts of the turbine blade, in the case of a failure, may be tossed behind the turbine and may lead to damage of infrastructure in the wake path.

This document outlines the minimum distances that need to be introduced between a wind turbine and Eskom infrastructure to ensure that debris and / or turbulence would not negatively impact on the infrastructure.

Safety distances of wind turbines from other structures as implemented by other countries were also considered and the reasons for their selection were noted.

Concentrated solar plants and photovoltaic plants setbacks away from substations were also to be considered to prevent restricting possible power line access routes to the substation.

2. SUPPORTING CLAUSES

2.1 SCOPE

This document provides guidance on the safe distance that a wind turbine should be located from any Eskom power line or substation. The document specifies setback distances for transmission lines (220 kV to 765 kV), distribution lines (6.6 kV to 132 kV) and all Eskom substations. Setbacks for concentrated solar plants and photovoltaic plants are also specified away from substations.

2.1.1 Purpose

Setbacks for wind turbines and power lines / substations are required for various reasons. These include possible catastrophic failure of the turbine blade that may release fragments and which may be thrown onto nearby power lines that may result in damage with associated unplanned outages. Turbulence behind the turbine may affect helicopter flight during routine Eskom live line maintenance and

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inspections that may lead to safety risk of the aircraft / personnel. Concentrated solar plants and photovoltaic plants setback away from substations were required to prevent substations from being boxed in by these renewable generation plants limiting line route access to the substations.

2.1.2 Applicability

This document is applicable to the siting of all new and existing wind turbines, concentrated solar plants and photovoltaic plants near power lines and substations.

2.2 NORMATIVE/INFORMATIVE REFERENCES

2.2.1 Normative

1. <http://www.envir.ecb.gov.za/class-file/action=preview/id=1170403/Hiiimaa+turbulence+impact+EMD.pdf>.
2. <http://www.energy.ca.gov/2005publications/CEC-500-2005-184/CEC-500-2005-184.PDF>
3. <http://www.adamscountywind.com/Revised%20Site/Windmills/Adams%20County%20Ordinance/Adams%20County%20Wind%20Ord.htm>
4. http://www.dsireusa.org/incentives/incentive.cfm?Incentive_Code=PA11R&RE=1&EE=1
5. <http://www.wind-watch.org/documents/european-setbacks-minimum-distance-between-wind-turbines-and-habitations/>
6. <http://www.publications.parliament.uk/pa/ld201011/ldbills/017/11017.1-1.html>
7. http://www.caw.ca/assets/pdf/Turbine_Safety_Report.pdf
8. Rogers J, Slegers N, Costello M. (2011) A method for defining wind turbine setback standards. Wind energy 10.1002/we.468

2.2.2 Informative

None

2.3 DEFINITIONS

Definition	Description
Setback	The minimum distance between a wind turbine and boundary line/dwelling/road/infrastructure/servitude etc.
Flicker	Effect caused when rotating wind turbine blades periodically cast shadows
Tip Height	The total height of the wind turbine is. Hub height plus half rotor diameter (see Figure1)

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Wind Turbine Eskom Setbacks

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2.3.1 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

2.4 ABBREVIATIONS

Abbreviation	Description
None	

2.5 ROLES AND RESPONSIBILITIES

All personnel involved in the positioning wind turbines, concentrated solar plants and photovoltaic plants near power lines/substations must follow the setbacks outlined in this guideline.

2.6 PROCESS FOR MONITORING

Approval by Eskom in writing.

2.7 RELATED/SUPPORTING DOCUMENTS

None

3. DOCUMENT CONTENT

3.1 INTERNATIONAL SETBACK COMPARISON

Wind Turbine setbacks employed by various countries were considered. It was found that setbacks were determined for various reasons that include noise, flicker, turbine blade failure and wind effects. The distances (setbacks) varied based on these factors and were influenced by the type of infrastructure

Wind turbine setbacks varied for roads, power lines, dwellings, buildings and property and it was noted that the largest setbacks were employed for reasons of noise and flicker related issues [1-7]. Very few countries specified setbacks for power lines.

The literature survey [1-7], yielded information about studies and experiments were conducted to determine the distance that a broken fragment from a wind turbine might be thrown. Even though of low probability of hitting a power line [5.0×10^{-5}], the distances recorded were significant [750m¹⁸]

Setbacks were thus introduced to prevent any damage to Eskom infrastructure.

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Wind Turbine Eskom Setbacks

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Page: 7 of 9

Wind turbines may also cause changes in wind patterns with turbulent effects behind the hub. These factors dictate the wind turbine setbacks specified in this document.

Concentrated solar plants and photovoltaic plants also can limit access into the substation for power lines of all voltages. A setback distance must therefore be employed to prevent the substation from being boxed in by these generation plants. These setback distances are specified in this document.

3.2 ESKOM REQUIRED SETBACKS

- Eskom requires a setback distance of 3 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for transmission lines.
- Eskom requires a setback distance of 1 times the tip height of the wind turbine from the edge of the closest Eskom servitude (including vacant servitudes) for distribution Lines.
- Eskom must be informed of any proposed wind turbine, concentrated solar plants and photovoltaic activity within a 5 km radius of a substation. No wind turbine structure shall be built within a 2 km radius of the closest point of the substation. Where concentrated solar plants and photovoltaic structures fall within a 2 km radius of the closest point of a substation, Eskom should be informed in writing during the planning phase of the construction of such plant or structure.
- Applicants must show that Eskom radio telecommunication systems (mainly microwave systems) will not be affected in any way by wind turbines.

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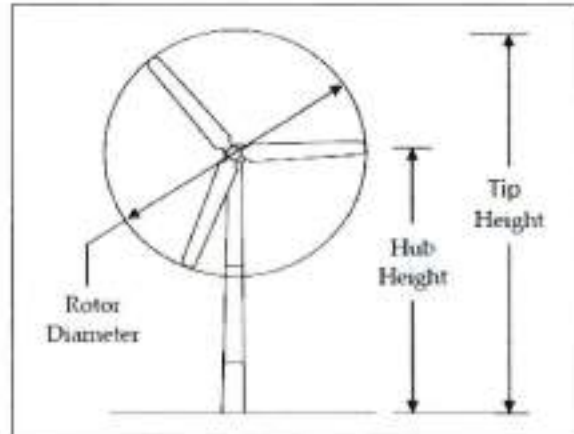


Figure 1: Horizontal Axis Wind Turbine ²³

4. AUTHORISATION

This document has been seen and accepted by:

Name & Surname	Designation
V Naidoo	Chief Engineer
Dr P H Pretorius	Electrical Specialist
J Geeringh	Snr Consultant Environ Mngt
B Haridass	Snr Consultant Engineer
R A Vajeth	Acting Snr Manager (Lines)

5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2013	0	J W Chetty	First Publication - No renewable energy generation plant setback specification in existence

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Wind Turbine Eskom Setbacks

Unique Identifier: 240-65559775

Revision: 0

Page: 9 of 9

6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

Jonathan W Chetty (Mechanical Engineer)

Vivendhra Naidoo (Chief Engineer)

Dr Pieter H Pretorius (Electrical Specialist)

John Geeringh (Snr Consultant Environ Mngt)

Bharat Haridass (Snr Consultant Engineer)

Riaz A Vajeth (Acting Snr Manager (Lines))

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<<< Ramotholo Setwa <rs@saac.za>, 12/01/2018 09:42 >>>

Dear Lizande:

The following was forwarded to me by my colleague, Chris, at Sutherland, given my responsibilities regarding these kind of issues at the South African Astronomical Observatory (SAAO).

The proposed wind energy facilities near Kuruman are too far from the Observatory in Sutherland to cause any detectable problem to optical observations at SALT and other SAAO telescopes.

Regards
Ramotholo

**BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND 2 WIND ENERGY FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE SOUTH-WEST OF KURUMAN, NORTHERN CAPE PROVINCE
CSIR REFERENCE: CSIR/1/02158/ER/2018/0001/8)**

Project Applicant: Mulilo Renewable Project Developments (Pty) Ltd

COMMENT AND REGISTRATION FORM

09 March 2018

Name: PIERRE BURGER	Telephone: 053 723 6000
Organisation: GAMAGARA LOCAL MUNICIPALITY	Fax: 053 72 32 021
Designation: SENIOUR ENVIRONMENTAL HEALTH INSPECTOR	Email: piereb@gamagara.co.za
Physical address: CNR FRICKI MEYER AND HENORIE VAN ECK KATHU 8446	Postal address: P.O. BOX 4001 KATHU 8446

Please indicate if you would like to register as an Interested and Affected Party (I/AAP) for the proposed projects. Registration is required in order to receive further correspondence during the Basic Assessment, Scoping and EIA Processes. Please tick the appropriate box.

YES

NO

Please indicate if you have any interest (business, financial, personal or other) in the proposed projects and/or the Applications for Environmental Authorisation:

N/A

Please describe any issues or concerns you may have regarding the proposed development of the Kuruman Phase 1 and 2 Wind Energy Facilities which you think should be considered during Scoping and EIA processes or the associated electrical infrastructure which you think should be considered during the Basic Assessment process.

Please provide details of any other individuals or organisations that should be registered as I/AAPs:

Please complete this Comment and Registration Form and submit to us by no later than 16 April 2018 and submit it to:

<p>Lizande Kelleman CSIR Postal Address: P. O. Box 320, Stellenbosch, 7509 Tel: 021 888 2490/2681 Fax: 021 888 2693 E-mail: lkelleman@csir.co.za</p>
--



**BASIC ASSESSMENT AND SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENTS FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND 2 WIND ENERGY FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE SOUTH-WEST OF KURUMAN, NORTHERN CAPE PROVINCE
CSIR REFERENCE: CSIR/II/021SE/ER/2018/0001/B)**

Project Applicant: Mulilo Renewable Project Developments (Pty) Ltd

COMMENT AND REGISTRATION FORM

09 March 2018

Name: <i>A J Coche</i>	Telephone: <i>082 823 8865</i>
Organisation: <i>Formet</i>	Fax:
Designation:	Email: <i>boob1953@gmail.com</i>
Physical address: <i>Koekoekstraat 9 Kotka</i>	Postal address: <i>Box 2773 Kuruman</i>

Please indicate if you would like to register as an Interested and Affected Party (ISAP) for the proposed projects. Registration is required in order to receive further correspondence during the Basic Assessment, Scoping and EIA Processes. Please tick the appropriate box.

YES

NO



Please indicate if you have any interest (business, financial, personal or other) in the proposed projects and/or the Applications for Environmental Authorisation:

Please describe any issues or concerns you may have regarding the proposed development of the Kuruman Phase 1 and 2 Wind Energy Facilities which you think should be considered during Scoping and EIA processes or the associated electrical infrastructure which you think should be considered during the Basic Assessment process.

Please provide details of any other individuals or organisations that should be registered as ISAPs:

Please complete this Comment and Registration Form and submit to us by no later than **16 April 2018** and submit it to:

<p>Lizande Kellerman CSIR Postal Address: P. O. Box 320, Stellenbosch, 7599 Tel: 021 888 2488/2661 Fax: 021 888 2693 E-mail: lkellerman@csir.co.za</p>
--



D5: Notification sent to I&APs upon release of Draft Scoping Report for Public Comment

Page 1 of 2

Minnelise Levendal - Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape

From: Minnelise Levendal
To: Minnelise Levendal
Date: 18/05/2018 15:58
Subject: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
Cc: Minnelise Levendal; Lizande Kellerman
Bc: aditene@agri.ncape.gov.za; annelizae@nda.agric.za; atiplady@ska.nc.za;
Attachments: KURUMAN PHASE 1 AND PHASE 2 IAPS EMAIL LETTER 1 RELEASE OF DSR.pdf; I&AP Comment Form.pdf

Dear Stakeholder,

RELEASE OF DRAFT SCOPING REPORTS FOR COMMENT FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES, NEAR KURUMAN IN THE NORTHERN CAPE PROVINCE

Mullo Renewable Project Developments (Pty) Ltd is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province.

Your are hereby notified of the release of the Kuruman Phase 1 and the Phase 2 Draft Scoping Reports for a 30-day commenting period extending to 21 June 2018.

Please see the attached letter which will provide you with more information on the proposed projects as well as a comment form which you may use.

Hard copies and CDs of the Draft Scoping Reports are available for public viewing at the Kuruman and Kathu Public Libraries.

The Draft Scoping Reports can also be downloaded from the following website:
<https://www.csir.co.za/environmental-impact-assessment>

Kindly submit all comments by latest 21 June 2018 to the CSIR Project Manager indicated below:

Ms Lizande Kellerman
CSIR (EMS)
PO Box 320
Stellenbosch
7599
Email: lkellerman@csir.co.za

Tel: 021 888 2489

file:///C:/Users/mlevendal/AppData/Local/Temp/NPgrpwise/5AFEF81CSTELLBOSP... 28/06/2018

Fax: 021 888 2693

file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/5AFEF81CSTELLBOSP... 28/06/2018

CSIR Environmental Management Services
P. O. Box 320, Stellenbosch, 7800
Tel: 021 888 2400
Fax: 021 888 2493
Email: lkellerman@csir.co.za



18 May 2018

Dear Interested and Affected Party

RE: RELEASE OF THE DRAFT SCOPING REPORTS FOR COMMENT FOR THE DEVELOPMENT OF THE PROPOSED KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES NEAR KURUMAN, NORTHERN CAPE PROVINCE

Mullo Renewable Project Developments (Pty) Ltd (hereafter, "Mullo") is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province. The proposed projects are being developed to generate electricity via wind energy which will feed into and supplement the national electricity grid. The proposed Kuruman WEFs will be connected to the the Ferrum substation (located in Kathu) or to the Segame substation (located in Kuruman) and a collector substation, via a 132 kV powerline.

The proposed WEFs will entail the erection of wind turbines (20 - 47 turbines for Phase 1 and 20 - 52 turbines for Phase 2) with a hub height of 80 - 140 m; rotor diameter of 100 - 160 m; blade length of 50- 80 m and buildings, electrical infrastructure, internal access roads, and associated infrastructure.

The proposed Kuruman Phase 1 WEF will be developed on the following land portions:

- Portion 2 of Farm Carrington 440;
- Portion 4 of Farm Carrington 440;
- Portion 1 of Farm Harland 381;
- Remainder of Farm Woodstock 441; and
- Remainder of Farm Roesdale 382.

The proposed Kuruman Phase 2 WEF will be developed on the following land portions:

- Portion 1 of Farm Bramcote 446; and
- Remainder of Farm Bramcote 446.

In terms of the National Environmental Management Act (Act 107 of 1988, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations, as amended, promulgated in Government Gazette 40772 and Government Notice (GN) R327, R328, R329 and R324 on 7 April 2017, a full Scoping and EIA Process is required for the construction of the Kap Vley WEF. A separate Basic Assessment Process is required and will be undertaken for the development of the proposed transmission line, associated electrical infrastructure and connection to the Eskom substation. The Council for Scientific and Industrial Research (CSIR) has been appointed by the Project Applicant to undertake the separate required Basic Assessment as well as the Scoping and EIA Processes for the proposed projects. Please note that separate EIA processes are being undertaken for the Phase 1 and Phase 2 Kuruman WEFs, but an integrated Public Participation Process is being followed.

As a registered I&AP on the project database, you are hereby notified of the release of the Draft Scoping Reports for the proposed Kuruman Phase 1 and Phase 2 WEFs to all registered I&APs and stakeholders for a 30-day review period, ending on 21 June 2018. Please submit your comments before or on this date to Ms Lizande Kelleman at the contact details provided above. Please note if your comments refer to the Phase 1 or Phase 2 Kuruman WEFs or to both. A comment form is attached to this letter which you may use to provide comments.

Hard copies and CDs of the Draft Scoping Reports are available for public viewing at the Kuruman and Kathu Public Libraries. The Draft Scoping Reports can also be downloaded from the following website: <https://www.csir.co.za/environmental-impact-assessment>

All comments received during this 30 day review period will be recorded and included in the Final Scoping Reports for submission to the National DEA for decision-making in line with Regulations 21 and 22 of the 2014 NEMA EIA Regulations, as amended (GN R326). As a registered I&AP on the project database, you will be notified of the submission of the Final Scoping Reports to the DEA for decision-making.

Should you have any queries or require additional information please do not hesitate to contact the undersigned using the contact details provided above.

Sincerely,

Ms Lizande Kelleman
Project Manager
CSIR Environmental Management Services



I&AP COMMENT & REGISTRATION FORM

PROPOSED CONSTRUCTION OF THE KURUMAN PHASE 1 AND KURUMAN PHASE 2 WIND ENERGY FACILITIES AND ASSOCIATED INFRASTRUCTURE NEAR KURUMAN, NORTHERN CAPE PROVINCE

PLEASE SUBMIT ALL COMMENTS BY 21 JUNE 2018

Please provide your full contact details:	
First Name:	Surname:
Organisation:	Designation:
Postal Address:	Street Address:
Postal Code:	Street Code:
Phone: ()	Fax: ()
Cell:	Email:

Please indicate if you want to be registered as an Interested and Affected Party (I&AP) for the proposed projects (please tick the appropriate box). **PLEASE NOTE:** Registration as an I&AP is required in order to receive further correspondence regarding the EIA Process.

YES

NO

Please clearly state any interest (business, financial, personal or other) you may have in the projects and/or the applications for Environmental Authorisation:

Please describe any issues or concerns you may have which you think should be considered during the Scoping and Environmental Impact Assessment Processes:

Please provide details of any other individuals or organisations that should be registered as I&APs:

Please return all completed I&AP Comment & Registration Forms to Ms Lizande Kellerman at:

CSIR | PO Box 320 | Stellenbosch | 7599
Tel: (021) 888 2489 | **Fax:** (021) 888 2693 | **Email:** lkellerman@csir.co.za
 Please visit the project website at:
<https://www.csir.co.za/environmental-impact-assessment>

Message ID: SAFED2D37F:108:54476
 Subject: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
 Created By: MLevendal@nrk.co.za
 Scheduled Date:
 Creation Date: 18/05/2018 16:07
 From: Minneke Levendal

Recipients:

Recipient	Action	Date & Time	Comment
 enrkh.gov.za	Transferred	18/05/2018 16:07	
To: dlevene@enrkh.gov.za; dlevene@enrkh.gov.za	Undeliverable	18/05/2018 16:07	

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KURUMAN PHASE 1 AND PHASE 2 IAPS EMAIL LETTER 1 RELEASE OF DSR.pdf	140 KB (144295 Bytes)	18/05/2018 16:06
MESSAGE	4 KB (4323 Bytes)	18/05/2018 16:07
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Options:

Auto Delete: No
 Concealed Subject: No
 Expiration Date: None
 Notify Recipients: Yes
 Priority: Standard
 Reply Requested By: None
 Security: Standard
 To Be Delivered: Immediate

Record ID:

Record ID: SAFEFA4D-STELLEBOS.POB0X1.180.1613872:1:589F4:1
 Common Record ID: SAFEED2D-STELLEBOS.POB0X1.208.289008A:1.A6612:1

file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/SAFEFA4DSTELLEBOS... 28/06/2018

Lizande Kellerman - Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape

From: Lizande Kellerman
Date: 21/05/2018 16:10
Subject: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
Cc: Lizande Kellerman; Minnelise Levendal
Bc: mmonir.suzai@nersa.org.za; amodise@vodamail.co.za; pieter.swart@dmr.gov.za
Attachments: I&AP Comment Form.pdf, KURUMAN PHASE 1 & PHASE 2 IAPS EMAIL LETTER_RELEASE OF DSR.pdf

Dear Stakeholder,

RELEASE OF DRAFT SCOPING REPORTS FOR COMMENT FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES, NEAR KURUMAN IN THE NORTHERN CAPE PROVINCE

Mullo Renewable Project Developments (Pty) Ltd is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province.

Your are hereby notified of the release of the Kuruman Phase 1 and the Phase 2 Draft Scoping Reports for a 30-day commenting period extending to 21 June 2018.

Please see the attached letter which will provide you with more information on the proposed projects as well as a comment form which you may use.

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CSIR (EMS)
PO Box 320
Stellenbosch
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Email: lkellerman@csir.co.za
Tel: 021 888 2489
Fax: 021 888 2693

Message ID: 5B02034D-842-54-180
 Subject: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
 Created By: LKelleman@csir.co.za
 Scheduled Date:
 Creation Date: 21/05/2018 16:10
 From: Lizande Kelleman

Recipients:

Recipient	Action	Date & Time	Comment
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 ncp.gov.za B.C. bjoles@ncp.gov.za;bjoles@ncp.gov.za	Transferred	21/05/2018 16:10	2.0 B message relayed
 nersa.org.za B.C. mmonzi.suz@nersa.org.za;mmonzi.suz@nersa.org.za	Transferred	21/05/2018 16:10	
 POBOX1.CENTRAL1 C.C. Lizande.Kelleman@csir.co.za	Delivered	21/05/2018 16:10	
 POBOX1.STELLBOG C.C. Mirnelisa.Levendal@csir.co.za	Delivered	21/05/2018 16:10	
 vodemail.co.za B.C. kenneke@vodemail.co.za;kenneke@vodemail.co.za	Transferred	21/05/2018 16:10	

Post Offices

Post Office	Delivered	Route
agrnk.co.za		agrnk.co.za
dnr.gov.za		dnr.gov.za
ncp.gov.za		ncp.gov.za
nersa.org.za		nersa.org.za
POBOX1.CENTRAL1	21/05/2018 16:10	csir.co.za
POBOX1.STELLBOG	21/05/2018 16:10	csir.co.za
vodemail.co.za		vodemail.co.za

Files

File	Size	Date & Time
MAP Comment Form.pdf	120 KB (123171 Bytes)	16/05/2018 15:50
KURUMAN PHASE 1 & PHASE 2 MAPS EMAIL LETTER_RELEASE OF DSR.pdf	140 KB (144302 Bytes)	21/05/2018 16:11
MESSAGE	3 KB (3196 Bytes)	21/05/2018 16:10
TEXT file	5 KB (5318 Bytes)	21/05/2018 16:10

Options

Auto Delete: No
 Concealed Subject: No
 Expiration Date: None
 Notify Recipients: Yes
 Priority: Standard
 Reply Requested By: None
 Security: Standard
 To Be Delivered: Immediate

Record Id

Record Id: 5B020F6D-CENTRAL1-POBOX1-180-1763468-1-17638-1
 Common Record Id: 5B02034D-CENTRAL1-POBOX1-300-2000964-1-1AF3F8-1

file:///C:/Users/LKelleman/AppData/Local/Temp/XPgrprwise/5B02EF6DCENTRAL... 21/05/2018

Message Id: 5AFEF81CSTELLBOSP...
 Subject: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
 Created By: MLevendal@ecnr.co.za
 Scheduled Date:
 Creation Date: 18/05/2018 15:58
 From: Mneelise Levendal

Recipients:

Recipient	Action	Date & Time	Comment
agrncaps.gov.za	Transferred	18/05/2018 15:58	
BC: adlene@agri.ncaps.gov.za(adlene@agri.ncaps.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
angloamericain.com	Transferred	18/05/2018 15:58	
BC: jope.abejr@angloamerican.com(jope.abejr@angloamerican.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: nada.williams@angloamerican.com(nada.williams@angloamerican.com)	Transferred	18/05/2018 15:58	2.0 message relayed
cea.co.za	Transferred	18/05/2018 15:58	
BC: zlotsh@cea.co.za(zlotsh@cea.co.za)	Transferred	18/05/2018 15:58	2.0 message relayed
eaff.gov.za	Transferred	18/05/2018 15:58	
BC: jacolineMa@eaff.gov.za(jacolineMa@eaff.gov.za)			
BC: MathukelaMa@eaff.gov.za(MathukelaMa@eaff.gov.za)			
BC: nhlakad@eaff.gov.za(nhlakad@eaff.gov.za)			
BC: Thabeka@eaff.gov.za(Thabeka@eaff.gov.za)			
em.gov.za	Transferred	18/05/2018 15:58	
BC: Kgula.Mkwenza@em.gov.za(Kgula.Mkwenza@em.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
ebs.gov.za	Transferred	18/05/2018 15:58	
BC: esibeka@ebs.gov.za(esibeka@ebs.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
ewa.gov.za	Transferred	18/05/2018 15:58	
BC: MfM@ewa.gov.za(MfM@ewa.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
eem.gov.za	Transferred	18/05/2018 15:58	
BC: CooleS@eem.gov.za(CooleS@eem.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: kgaphoane@eem.gov.za(kgaphoane@eem.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
environment.gov.za	Transferred	18/05/2018 15:58	
BC: msoaga@environment.gov.za(msoaga@environment.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: Witschi@environment.gov.za(Witschi@environment.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
eskom.co.za	Transferred	18/05/2018 15:58	
BC: GeerinJH@eskom.co.za(GeerinJH@eskom.co.za)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: Laetke@eskom.co.za(Laetke@eskom.co.za)	Unavailable	18/05/2018 15:58	
BC: WinyaaJO@eskom.co.za(WinyaaJO@eskom.co.za)	Transferred	18/05/2018 15:58	2.0 message relayed
gamagana.gov.za	Transferred	18/05/2018 15:58	
BC: nsofene@gamagana.gov.za(nsofene@gamagana.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: pofene@gamagana.gov.za(pofene@gamagana.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
ga-segonyana.gov.za	Transferred	18/05/2018 15:58	
BC: bchoche@gasegonyana.gov.za(bchoche@gasegonyana.gov.za)	Transferred	18/05/2018 15:58	2.0 message relayed
gmail.com	Transferred	18/05/2018 15:58	
BC: chrismr@gmail.com(chrismr@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: elobale.dico@gmail.com(elobale.dico@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: elcomads@gmail.com(elcomads@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: fraetronant@gmail.com(fraetronant@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: hedeavand@gmail.com(hedeavand@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: hant111952@gmail.com(hant111952@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: mansfieldstia@gmail.com(mansfieldstia@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: pkuvertheg32@gmail.com(pkuvertheg32@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: ratha.limothy@gmail.com(ratha.limothy@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
BC: spitzberg@gmail.com(spitzberg@gmail.com)	Transferred	18/05/2018 15:58	2.0 message relayed
gvk.co.za	Transferred	18/05/2018 15:58	
BC: hantani@gvk.co.za(hantani@gvk.co.za)	Transferred	18/05/2018 15:58	2.0 message relayed
iclub.com	Transferred	18/05/2018 15:58	

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DC: coralie.jubert@cloud.com (coralie.jubert@cloud.com)			
labour.gov.za	Transferred	16/05/2018 15:50	
BC: menna.liphwame@labour.gov.za (menna.liphwame@labour.gov.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
letsa.net	Transferred	16/05/2018 15:50	
DC: rrv@letsa.net (rrv@letsa.net)			
eighty.co.za	Transferred	16/05/2018 15:50	
BC: sara@eighty.co.za (sara@eighty.co.za)	Transferred	16/05/2018 16:03	2.5.0 message relayed
mvweb.co.za	Transferred	16/05/2018 15:50	
BC: wesapp@mvweb.co.za (wesapp@mvweb.co.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
ncpp.gov.za	Transferred	16/05/2018 15:50	
BC: mmatheews@ncpp.gov.za (mmatheews@ncpp.gov.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
BC: nyaph@ncpp.gov.za (nyaph@ncpp.gov.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
BC: ntshe@ncpp.gov.za (ntshe@ncpp.gov.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
BC: shirazi@ncpp.gov.za (shirazi@ncpp.gov.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
BC: tshabane@ncpp.gov.za (tshabane@ncpp.gov.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
zala.agric.za	Transferred	16/05/2018 15:50	
BC: avelizae@zala.agric.za (avelizae@zala.agric.za)			
mensa.org.za	Transferred	16/05/2018 15:50	
BC: peter.zuyd@mensa.org.za (peter.zuyd@mensa.org.za)			
stcci.co.za	Transferred	16/05/2018 15:50	
BC: shawin@stcci.co.za (shawin@stcci.co.za)			
ira.co.za	Transferred	16/05/2018 15:50	
BC: daleck@ira.co.za (daleck@ira.co.za)	Transferred	16/05/2018 16:03	2.5.0 message relayed
BC: wafjo@ira.co.za (wafjo@ira.co.za)	Transferred	16/05/2018 16:03	2.5.0 message relayed
orytrail.com	Transferred	16/05/2018 15:50	
BC: info@orytrail.com (info@orytrail.com)	Transferred	16/05/2018 15:50	2.5.0 message relayed
POBOX 1 CENTRAL	Delivered	16/05/2018 15:50	
CC: L.Pardie (Katherine), Katherine@ccir.co.za)	Read Replied Deleted	21/05/2018 10:43 13/06/2018 12:36 18/06/2018 09:30	
POBOX 1 STELLABOS	Delivered	16/05/2018 15:50	
CC: Mirrethe Levensdal (MLevensdal@ccir.co.za)	Read Replied	16/05/2018 15:50 16/05/2018 16:07	
saf.ac.za	Transferred	16/05/2018 15:50	
BC: chris@saf.ac.za (chris@saf.ac.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
BC: rous@saf.ac.za (rous@saf.ac.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
saia.ac.za	Transferred	16/05/2018 15:50	
BC: alplady@saia.ac.za (alplady@saia.ac.za)	Transferred	16/05/2018 15:50	2.5.0 message relayed
south32.net	Transferred	16/05/2018 15:50	
BC: dana.poolman@south32.net (dana.poolman@south32.net)	Undeliverable	16/05/2018 15:50	
tsagastevie.gov.za	Transferred	16/05/2018 15:50	
BC: dtshefani@tsagastevie.gov.za (dtshefani@tsagastevie.gov.za)			
tpw.ncape.gov.za	Transferred	16/05/2018 15:50	
BC: klawence@tpw.ncape.gov.za (klawence@tpw.ncape.gov.za)	Undeliverable	16/05/2018 15:50	
webmail.co.za	Transferred	16/05/2018 15:50	
BC: tshba@webmail.co.za (tshba@webmail.co.za)	Undeliverable	16/05/2018 15:50	
worldonline.co.za	Transferred	16/05/2018 15:50	
BC: ncagto@worldonline.co.za (ncagto@worldonline.co.za)	Undeliverable	16/05/2018 15:50	
csnet.co.za	Transferred	16/05/2018 15:50	
BC: niccast@csnet.co.za (niccast@csnet.co.za)	Delivered	16/05/2018 15:50	
yahoo.com	Transferred	16/05/2018 15:50	
BC: dana.jubert@yahoo.com (dana.jubert@yahoo.com)	Transferred	16/05/2018 15:50	2.5.0 message relayed

file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/5AFEF81CSTELLBOSP... 28/06/2018

Post Offices		
Post Office	Delivered	Rec'd
agricape.gov.za		agricape.gov.za
angloamericain.com		angloamericain.com
caa.co.za		caa.co.za
caff.gov.za		caff.gov.za
cer.gov.za		cer.gov.za
dfs.gov.za		dfs.gov.za
dfs.gov.za		dfs.gov.za
dfs.gov.za		dfs.gov.za
dfs.gov.za		dfs.gov.za
environment.gov.za		environment.gov.za
eskom.co.za		eskom.co.za
gauteng.gov.za		gauteng.gov.za
ga-segonyane.gov.za		ga-segonyane.gov.za
gmail.com		gmail.com
guk.co.za		guk.co.za
icloud.com		icloud.com
lekur.gov.za		lekur.gov.za
lenticel		lenticel
mighty.co.za		mighty.co.za
mweb.co.za		mweb.co.za
ncpp.gov.za		ncpp.gov.za
nku.agric.za		nku.agric.za
nrta.org.za		nrta.org.za
nrta.co.za		nrta.co.za
ota.co.za		ota.co.za
rydell.com		rydell.com
POBOX1-CENTRAL1	16/05/2018 15:56	otr.co.za
POBOX1-STELLBOS	16/05/2018 15:56	otr.co.za
saif.ac.za		saif.ac.za
saif.ac.za		saif.ac.za
south32.net		south32.net
taolagattarva.gov.za		taolagattarva.gov.za
tpw.ncaps.gov.za		tpw.ncaps.gov.za
wabmail.co.za		wabmail.co.za
workonline.co.za		workonline.co.za
wsnet.co.za		wsnet.co.za
yahoo.com		yahoo.com

Files		
File	Size	Date & Time
IAPS Comment Form.pdf	120 KB (122171 Bytes)	16/05/2018 15:50
KURUMAN PHASE 1 AND PHASE 2 IAPS EMAIL LETTER 1 RELEASE OF DSR.pdf	160 KB (164205 Bytes)	16/05/2018 15:56
MESSAGE	4 KB (4214 Bytes)	16/05/2018 15:55
TEXT.htm	6 KB (6366 Bytes)	16/05/2018 15:55

Options	
Auto Delete:	No
Concealed Subject:	No
Expiration Date:	None
Notify Recipients:	Yes
Priority:	Standard
Reply Requested By:	None
Security:	Standard
To Be Delivered:	Immediate

Record Id	
Record Id:	SAFEF81CSTELLBOS.POB0X1.180.1675872.1.88809.1
Common Record Id:	SAFEF81CSTELLBOS.POB0X1.200.369006A.1.AGAAA.1

file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/SAFEF81CSTELLBOSP... 28/06/2018

Message ID: 5B20FA63.908_54_130
 Subject: Re: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
 Created By: LKelleman@ecsf.co.za
 Scheduled Date:
 Creation Date: 13/06/2018 13:05
 From: Lizande Kelleman

Recipients:

Recipient	Action	Date & Time	Comment
enrlink.co.za B.C. ofmanga@enrlink.co.za;ofmanga@enrlink.co.za	Transferred	13/06/2018 13:05	
dmr.gov.za B.C. pieter.zwart@dmr.gov.za;pieter.zwart@dmr.gov.za	Transferred	13/06/2018 13:05	2.0.8 message relayed
dohempark.co.za B.C. hars@dohempark.co.za;hars@dohempark.co.za	Transferred	13/06/2018 13:05	2.0.8 message relayed
ncpg.gov.za B.C. bjuilas@ncpg.gov.za;bjuilas@ncpg.gov.za	Transferred	13/06/2018 13:05	2.0.8 message relayed
nerisa.org.za B.C. hmonri.suca@nerisa.org.za;hmonri.suca@nerisa.org.za	Delivered	13/06/2018 13:05	
POBOX 1 CENTRAL 1 C.C. Lizande Kelleman,LKelleman@csir.co.za	Read	13/06/2018 13:05	
POBOX 1 STELLBOS C.C. Minnie Levens@MLLevens@csir.co.za	Read	13/06/2018 13:05	
vodanet.co.za B.C. aredlie@vodanet.co.za;aredlie@vodanet.co.za	Delivered	13/06/2018 13:05	2.0.8 recipients expanded

Post Offices

Post Office	Delivered	Route
enrlink.co.za		enrlink.co.za
dmr.gov.za		dmr.gov.za
dohempark.co.za		dohempark.co.za
ncpg.gov.za		ncpg.gov.za
nerisa.org.za		nerisa.org.za
POBOX 1 CENTRAL 1	13/06/2018 13:05	csir.co.za
POBOX 1 STELLBOS	13/06/2018 13:05	csir.co.za
vodanet.co.za		vodanet.co.za

Files

File	Size	Date & Time
MAP Comment Form.pdf	120 KB (123171 Bytes)	16/05/2018 15:30
KURUMAN PHASE 1 & PHASE 2 IAPS EMAIL LETTER_RELEASE OF DSR.pdf	140 KB (144302 Bytes)	21/05/2018 16:11
MESSAGE	3 KB (3044 Bytes)	13/06/2018 13:05
TEXT.txt	5 KB (5057 Bytes)	13/06/2018 13:05

Options

Auto Delete: No
 Concealed Subject: No
 Expiration Date: None
 Notify Recipients: Yes
 Priority: Standard
 Reply Requested By: None
 Security: Standard
 To Be Delivered: Immediate

Record ID

Record ID: 5B211683.CENTRAL1.POBOX1.126.175346B.1.1373E.1
 Common Record ID: 5B20FA63.CENTRAL1.POBOX1.208.289006A.1.1B1963.1

file:///C:/Users/LKelleman/AppData/Local/Temp/XPgrpwise/5B211683CENTRAL1... 13/06/2018

Lizande Kellerman - Re: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape

From: Lizande Kellerman
Date: 13/06/2018 13:05
Subject: Re: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
Cc: Minnie Leventhal; Lizande Kellerman
Bc: byulius@ncpg.gov.za; emodise@vodamail.co.za; mmonni.suzi@oersa.org.za; ...
Attachments: I&AP Comment Form.pdf, KURUMAN PHASE 1 & PHASE 2 IAPS EMAIL LETTER_RELEASE OF DSR.pdf

Dear Stakeholder,

A friendly reminder to please submit your comments on the Draft Scoping Reports for the proposed Kuruman Phase 1 and 2 WEFs **by latest 21 June 2018 to the CSIR Project Manager indicated below.**

Thank you!

>>> Lizande Kellerman 21/06/2018 14:10 >>>

Dear Stakeholder,

RELEASE OF DRAFT SCOPING REPORTS FOR COMMENT FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES, NEAR KURUMAN IN THE NORTHERN CAPE PROVINCE

Mulilo Renewable Project Developments (Pty) Ltd is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province.

You are hereby notified of the release of the Kuruman Phase 1 and the Phase 2 Draft Scoping Reports for a 30-day commenting period extending to 21 June 2018.

Please see the attached letter which will provide you with more information on the proposed projects as well as a comment form which you may use.

Hard copies and CDs of the Draft Scoping Reports are available for public viewing at the Kuruman and Kathu Public Libraries.

The Draft Scoping Reports can also be downloaded from the following website:

<https://www.csir.co.za/environmental-impact-assessment>

Kindly submit all comments by latest 21 June 2018 to the CSIR Project Manager indicated below:

Ms Lizande Kellerman
CSIR (EMS)
PO Box 320
Stellenbosch
7599

file:///C:/Users/L.Kellerman/AppData/Local/Temp/XPgrpwise/5B211683CENTRAL1... 13/06/2018

Email: lkellerman@csir.co.za
Tel: 021 888 2489
Fax: 021 888 2693

Email notifications

Page 1 of 2

Minnelise Levendal - Re: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape

From: Minnelise Levendal
Date: 15/06/2018 17:32
Subject: Re: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
Cc: Lizande Kelleman; "Minnelise Levendal"
Re: aditene@agri.ncape.gov.za; japie.steyn@angloamerican.com; nadia.willia...
Attachments: KURUMAN PHASE 1 AND PHASE 2 IAPS EMAIL LETTER 1 RELEASE OF DSR.pdf; I&AP Comment Form.pdf

Dear Stakeholder,

A friendly reminder to please submit your comments on the Draft Scoping Reports for the proposed Kuruman Phase 1 and 2 WEFs **by latest 21 June 2018 to the CSIR Project Manager, Ms Lizande Kelleman, at the contact details indicated below.**

Thank you!

<<< Minnelise Levendal | 15/06/2018 | 17:32 >>>

Dear Stakeholder,

RELEASE OF DRAFT SCOPING REPORTS FOR COMMENT FOR THE PROPOSED DEVELOPMENT OF THE KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES, NEAR KURUMAN IN THE NORTHERN CAPE PROVINCE

Mullo Renewable Project Developments (Pty) Ltd is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province.

Your are hereby notified of the release of the Kuruman Phase 1 and the Phase 2 Draft Scoping Reports for a 30-day commenting period extending to 21 June 2018.

Please see the attached letter which will provide you with more information on the proposed projects as well as a comment form which you may use.

Hard copies and CDs of the Draft Scoping Reports are available for public viewing at the Kuruman and Kathu Public Libraries.

The Draft Scoping Reports can also be downloaded from the following website:
<https://www.csir.co.za/environmental-impact-assessment>

Kindly submit all comments by latest 21 June 2018 to the CSIR Project Manager indicated below:

file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/5B23F845STELLBOSP... 28/06/2018

Ms Lizande Kellerman
CSIR (EMS)
PO Box 320
Stellenbosch
7599
Email: lkellerman@csir.co.za

Tel: 021 888 2489
Fax: 021 888 2693

Message Id: 5B23FC25-D46-106-54476
 Subject: Re: Release of Draft Scoping Reports for comment for Kuruman Phase 1 and Phase 2 Wind Energy Facilities near Kuruman, Northern Cape
 Created By: M.Levendal@ecnr.co.za
 Scheduled Date:
 Creation Date: 15/06/2018 17:32
 From: Minnie Levendal

Recipients:

Recipient	Action	Date & Time	Comment
agrncaps.gov.za	Transferred	15/06/2018 17:32	
BC: adlene@agri.ncaps.gov.za(adlene@agri.ncaps.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
angloamerican.com	Transferred	15/06/2018 17:32	
BC: jope.abejr@angloamerican.com(jope.abejr@angloamerican.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: nada.williams@angloamerican.com;nada.williams@angloamerican.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
cea.co.za	Transferred	15/06/2018 17:32	
BC: zlotsh@cea.co.za(zlotsh@cea.co.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
eaff.gov.za	Transferred	15/06/2018 17:32	
BC: jacolineMa@eaff.gov.za(jacolineMa@eaff.gov.za)			
BC: nashukuma@eaff.gov.za(nashukuma@eaff.gov.za)			
BC: ntsakad@eaff.gov.za(ntsakad@eaff.gov.za)			
BC: Thabo@eaff.gov.za(Thabo@eaff.gov.za)			
em.gov.za	Transferred	15/06/2018 17:32	
BC: Kgabo.Mokwena@em.gov.za(Kgabo.Mokwena@em.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
dtps.gov.za	Transferred	15/06/2018 17:32	
BC: esibeka@dtps.gov.za(esibeka@dtps.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
dwe.gov.za	Transferred	15/06/2018 17:32	
BC: MfM@dwe.gov.za(MfM@dwe.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
dm.gov.za	Transferred	15/06/2018 17:32	
BC: Doreen@dm.gov.za(Doreen@dm.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: kgaphoan@dm.gov.za(kgaphoan@dm.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
environment.gov.za	Transferred	15/06/2018 17:32	
BC: Mkhamsini@environment.gov.za(Mkhamsini@environment.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: Wina.Lubisi@environment.gov.za(Wina.Lubisi@environment.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
eskom.co.za	Transferred	15/06/2018 17:32	
BC: John.Overingham@eskom.co.za(John.Overingham@eskom.co.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: Justine.Wynja@eskom.co.za(Justine.Wynja@eskom.co.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: Lashik@eskom.co.za(Lashik@eskom.co.za)	Undeliverable	15/06/2018 17:33	
gamagara.gov.za	Transferred	15/06/2018 17:32	
BC: ntsakad@gamagara.gov.za(ntsakad@gamagara.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: protea@gamagara.gov.za(protea@gamagara.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
ga-segonyana.gov.za	Transferred	15/06/2018 17:32	
BC: bchoche@gasegonyana.gov.za(bchoche@gasegonyana.gov.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
gmail.com	Transferred	15/06/2018 17:32	
BC: chrissieD@gmail.com(chrissieD@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: elobale.dico@gmail.com(elobale.dico@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: elomias@gmail.com(elomias@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: fraetromant@gmail.com(fraetromant@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: hedeavone@gmail.com(hedeavone@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: hanel19192@gmail.com(hanel19192@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: marofelata@gmail.com(marofelata@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: pkuverhage52@gmail.com(pkuverhage52@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: ratha.limthy@gmail.com(ratha.limthy@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
BC: spitzberg@gmail.com(spitzberg@gmail.com)	Transferred	15/06/2018 17:33	2.0.0 message relayed
gvk.co.za	Transferred	15/06/2018 17:32	
BC: harami@gvk.co.za(harami@gvk.co.za)	Transferred	15/06/2018 17:33	2.0.0 message relayed
iclub.com	Transferred	15/06/2018 17:32	

file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/5B23F845STELLBOSP... 28/06/2018

BC: coralie.jubert@cloud.com (coralie.jubert@cloud.com)		
labour.gov.za	Transferred	15/06/2018 11:32
BC: memma.liphwame@labour.gov.za (memma.liphwame@labour.gov.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
letsa.net	Transferred	15/06/2018 11:32
BC: rrv@letsa.net (rrv@letsa.net)		
nlighty.co.za	Transferred	15/06/2018 11:32
BC: sara@nlighty.co.za (sara@nlighty.co.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
nweb.co.za	Transferred	15/06/2018 11:32
BC: wesapp@nweb.co.za (wesapp@nweb.co.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
ncpp.gov.za	Transferred	15/06/2018 11:32
BC: mmathevat@ncpp.gov.za (mmathevat@ncpp.gov.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
BC: rryaph@ncpp.gov.za (ryaph@ncpp.gov.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
BC: rrvate@ncpp.gov.za (rvate@ncpp.gov.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
BC: smkanywa@ncpp.gov.za (smkanywa@ncpp.gov.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
BC: tmthambeni@ncpp.gov.za (tmthambeni@ncpp.gov.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
nie.agric.za	Transferred	15/06/2018 11:32
BC: ewelzee@nie.agric.za (ewelzee@nie.agric.za)		
nrsa.org.za	Transferred	15/06/2018 11:32
BC: peter.zuyts@nrsa.org.za (peter.zuyts@nrsa.org.za)	Undeliverable	15/06/2018 11:33
nrccl.co.za	Transferred	15/06/2018 11:32
BC: sharon@nrccl.co.za (sharon@nrccl.co.za)		
nra.co.za	Transferred	15/06/2018 11:32
BC: Narel de Kock (NFD) (NareldeKock@nra.co.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
BC: walfjo@nra.co.za (walfjo@nra.co.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
orytrail.com	Transferred	15/06/2018 11:32
BC: info@orytrail.com (info@orytrail.com)	Transferred	15/06/2018 11:33 2.0.0 message relayed
POBOX 1 CENTRAL 1	Delivered	15/06/2018 11:32
CC: Lizele Kelleman (L.Kelleman@cof.co.za)	Read	15/06/2018 11:39
POBOX 1 STELLBOS	Delivered	15/06/2018 11:32
CC: Mirabelle Levens (M.Levens@cof.co.za)		
sat.ac.za	Transferred	15/06/2018 11:32
BC: chris@sat.ac.za (chris@sat.ac.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
BC: rana@sat.ac.za (rana@sat.ac.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
sba.ac.za	Transferred	15/06/2018 11:32
BC: Adrien Tladyat (atady@sba.ac.za)	Transferred	15/06/2018 11:33 2.0.0 message relayed
south02.net	Transferred	15/06/2018 11:32
BC: dana.poolman@south02.net (dana.poolman@south02.net)	Undeliverable	15/06/2018 11:33
teologastene.gov.za	Transferred	15/06/2018 11:32
BC: dthelast@teologastene.gov.za (dthelast@teologastene.gov.za)		
tprv.ncpe.gov.za	Transferred	15/06/2018 11:32
BC: klanerica@tprv.ncpe.gov.za (klanerica@tprv.ncpe.gov.za)	Undeliverable	15/06/2018 11:33
webmail.co.za	Transferred	15/06/2018 11:32
BC: tmha@webmail.co.za (tmha@webmail.co.za)	Undeliverable	15/06/2018 11:33
worldonline.co.za	Transferred	15/06/2018 11:32
BC: rragric@worldonline.co.za (ragric@worldonline.co.za)	Undeliverable	15/06/2018 11:33
estnet.co.za	Transferred	15/06/2018 11:32
BC: recath@estnet.co.za (recath@estnet.co.za)		
yahoo.com	Transferred	15/06/2018 11:32
BC: dani.jubert@yahoo.com (dani.jubert@yahoo.com)	Transferred	15/06/2018 11:33 2.0.0 message relayed
Post Offices		
Post Office	Delivered	Read

file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/5B23F845STELLBOSP... 28/06/2018

agri.ncape.gov.za	agri.ncape.gov.za	
angloamerican.com	angloamerican.com	
aaa.co.za	aaa.co.za	
daif.gov.za	daif.gov.za	
deh.gov.za	deh.gov.za	
dps.gov.za	dps.gov.za	
dm.gov.za	dm.gov.za	
dvr.gov.za	dvr.gov.za	
environment.gov.za	environment.gov.za	
ekem.co.za	ekem.co.za	
gamagaha.gov.za	gamagaha.gov.za	
ga-segeiyana.gov.za	ga-segeiyana.gov.za	
gmail.com	gmail.com	
gek.co.za	gek.co.za	
cloud.com	cloud.com	
labour.gov.za	labour.gov.za	
lentic.net	lentic.net	
mighty.co.za	mighty.co.za	
mweb.co.za	mweb.co.za	
ncpg.gov.za	ncpg.gov.za	
nda.agric.za	nda.agric.za	
nera.org.za	nera.org.za	
nccl.co.za	nccl.co.za	
na.co.za	na.co.za	
nydial.com	nydial.com	
POBOX1-CENTRAL1	15/06/2018 17:32	nr.co.za
POBOX1-STELLBOS	15/06/2018 17:32	nr.co.za
net.ac.za	net.ac.za	
na.ac.za	na.ac.za	
south2.net	south2.net	
laelogaatwee.gov.za	laelogaatwee.gov.za	
trjw.ncape.gov.za	trjw.ncape.gov.za	
webmail.co.za	webmail.co.za	
worldtime.co.za	worldtime.co.za	
wwwl.co.za	wwwl.co.za	
yahoo.com	yahoo.com	

Files		
File	Size	Date & Time
ISAP Comment Form.pdf	120 KB (123171 Bytes)	16/06/2018 16:50
KURUMAN PHASE 1 AND PHASE 2 IAPS EMAIL LETTER 1 RELEASE OF DSR.pdf	140 KB (144205 Bytes)	16/06/2018 16:56
MESSAGE	4 KB (4766 Bytes)	16/06/2018 17:32
TEXT.txt	6 KB (7049 Bytes)	16/06/2018 17:32

Options	
Auto Delete:	No
Concealed Subject:	No
Expiration Date:	None
Notify Recipients:	Yes
Priority:	Standard
Reply Requested By:	None
Security:	Standard
To Be Delivered:	Immediate

Record Id	
Record Id:	5B23F845STELLBOS.POB0X1.130.1673872.1.505A8.1
Common Record Id:	5B23C35STELLBOS.POB0X1.280.300666A.1.A01BE.1


file:///C:/Users/mlevendal/AppData/Local/Temp/XPgrpwise/5B23F845STELLBOSP... 28/06/2018

Proof of Letters sent via Registered Mail and Courier

21 X R 39.80 = 835,80
 2 x 39,80 79,60

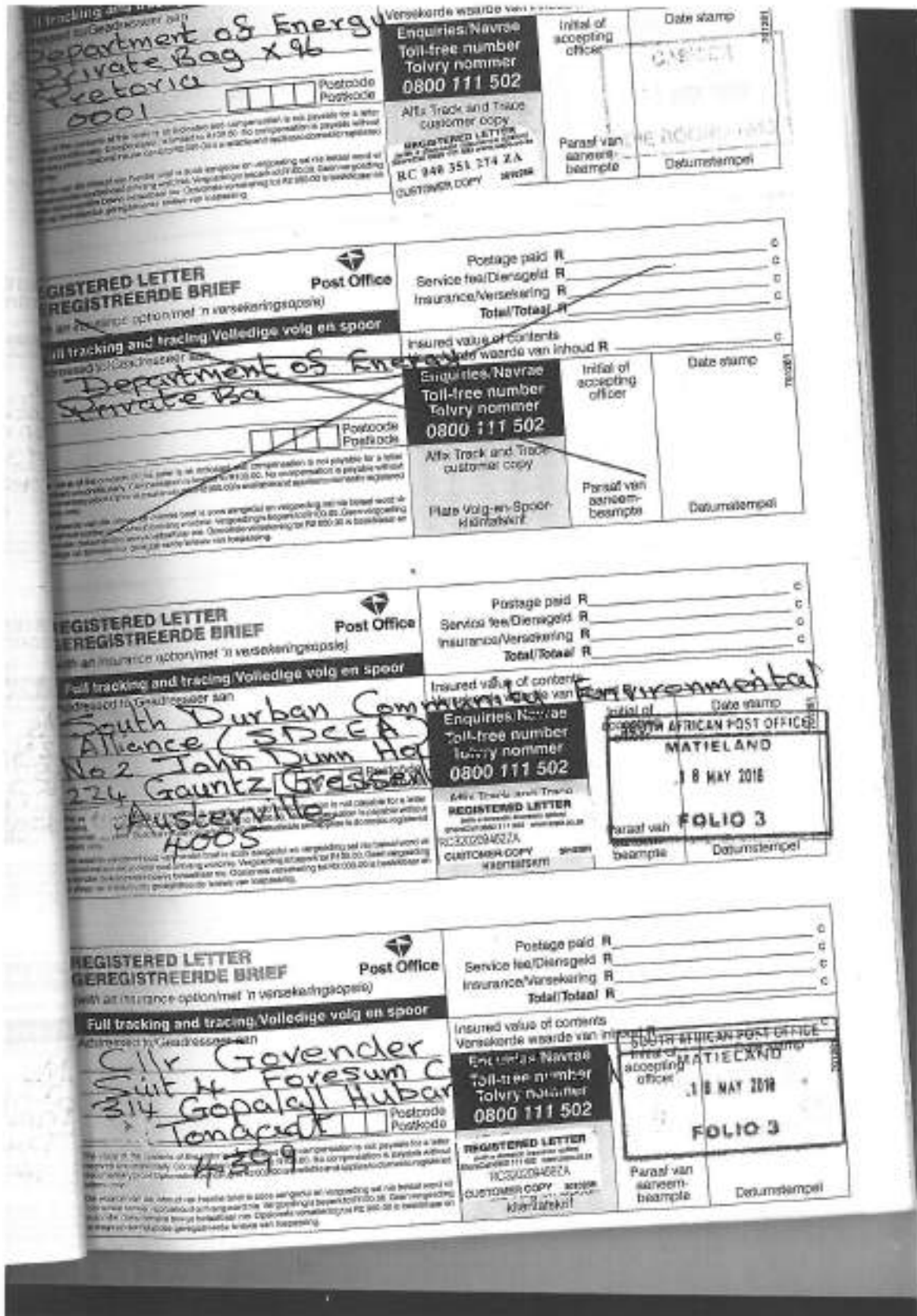
20 Registered / Parcels post items – Sent on 18 May 2018

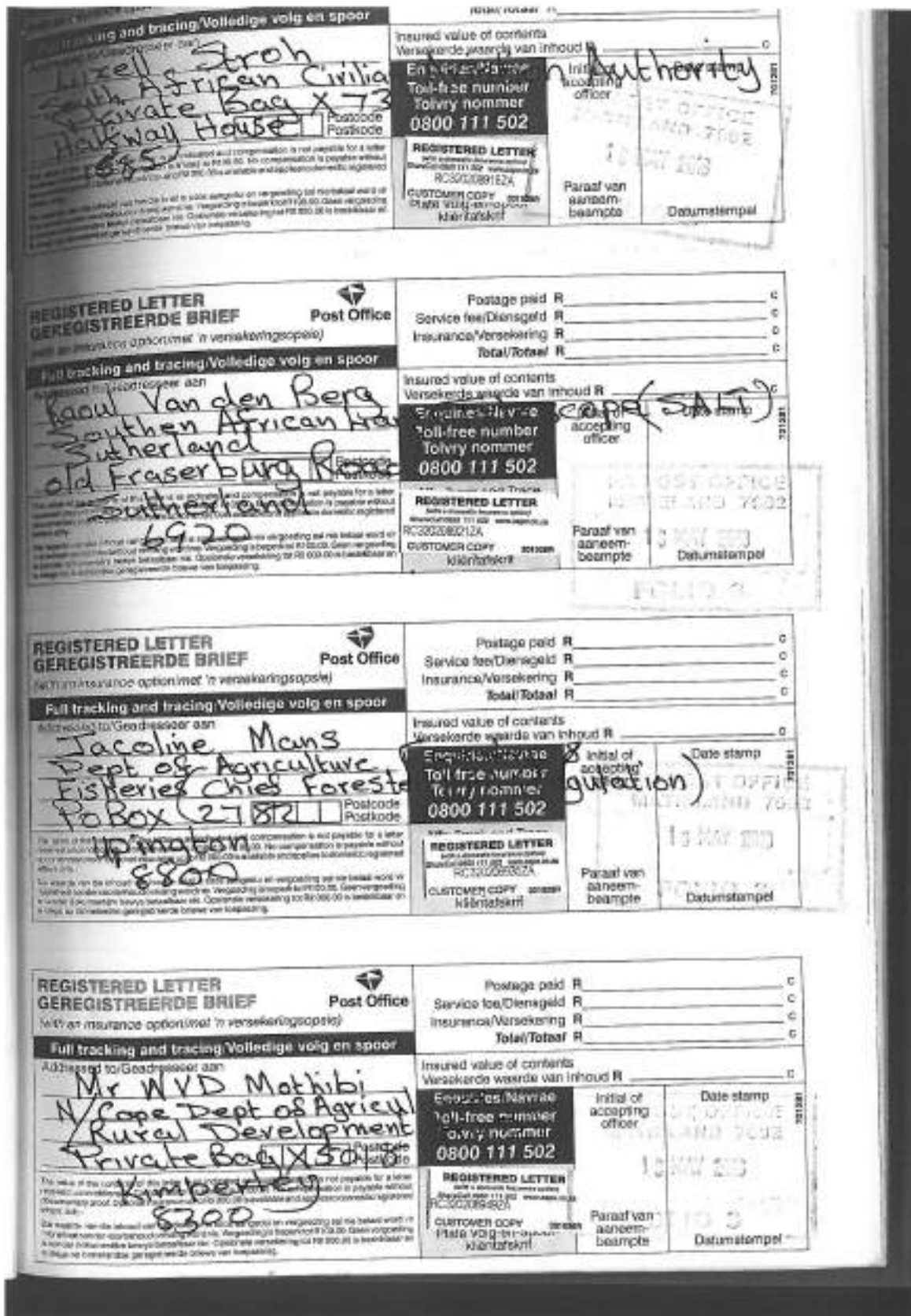
Name & Signature of person responsible for post:
 EMS0131 / RUN / 04100 / OKG10

F. Hoff 
 18/5/2018

Annelisa Collett Dept of Agriculture, Forestry & Fisheries - Agriland Liaison office Private Bag XL20 Pretoria 0001	Pieter Buys National Energy Regulator of South Africa NERSA PO Box 40343 Arcadia Pretoria: 0007	John Geeringh Eskom P.O.Box 1091 Johannesburg 2157
Kgata Mokoena Department of Mineral Resources Private Bag 59 Arcadia Pretoria 0007	Rene de Kock South African Roads Agency Limited (SANRAL) Northern Cape (Western Region) Private Bag X19 Bellville 7535	Melinda Mid Department of Water and Sanitation Private Bag 45912 Uptington 8800
Mr Kholekile Mangwini M/Cape Dept of Roads & Public Works (HOD) P.O. Box 3132 Kimberley 8300	Mr WVD Moshibi M/Cape Dept of Agriculture & Rural Development (HOD) Private Bag X5008 Kimberley 8300	Joceline Marx Dept of Agriculture, Forestry & Fisheries (Chief Forester: NFA Regulation) PO BOX 2792 Uptington 8800
Lizell Steek South African Civilian Aviation Authority Private Bag X73 Halfway House 1685	The Director Dept of Energy M/Cape Private Bag X6095 Kimberley 8300	Adron Tiplady SKA SA 17 Baker Street Rosebank, Johannesburg 2195
Raoul Van den Berg Southern African Large Telescope (SALT) Sutherland Old Fraserburg Road Sutherland 6820	WOUTER HUGO NAUDE & ANNA RITA JORDAAN Strelley 2/448 PO Box 25 KURUMAN 8480	SAREL JOHANNES PETRUS & AMI DU PLESSIS Nemstead 3/449 P O BOX 902 KURUMAN 8480
CORHEM CC Pleas 774 rrrr Hartland 2/381 JAN VAN REBECKSTRAAT 137 PRETORIA-NOORD 0182	HENDAN BOERDERY CC Hartland 4/381 STINGHOU/ISTR. 54 KATHU 8485	PETRUS RETIEF MALAN Rossdale 1/382 5007 VDOORTREKKER STREET KURUMAN 8480
MATHYS WACHEL BASSON & ME VAN ROOYEN & BALOKA TRUST Rossdal 2/382 7 BOTHA STREET KURUMAN 8480	SAREL JOHANNES KOORTZ Langley 1/447 14 RECHUMNA STREET KURUMAN 8480	

915,40



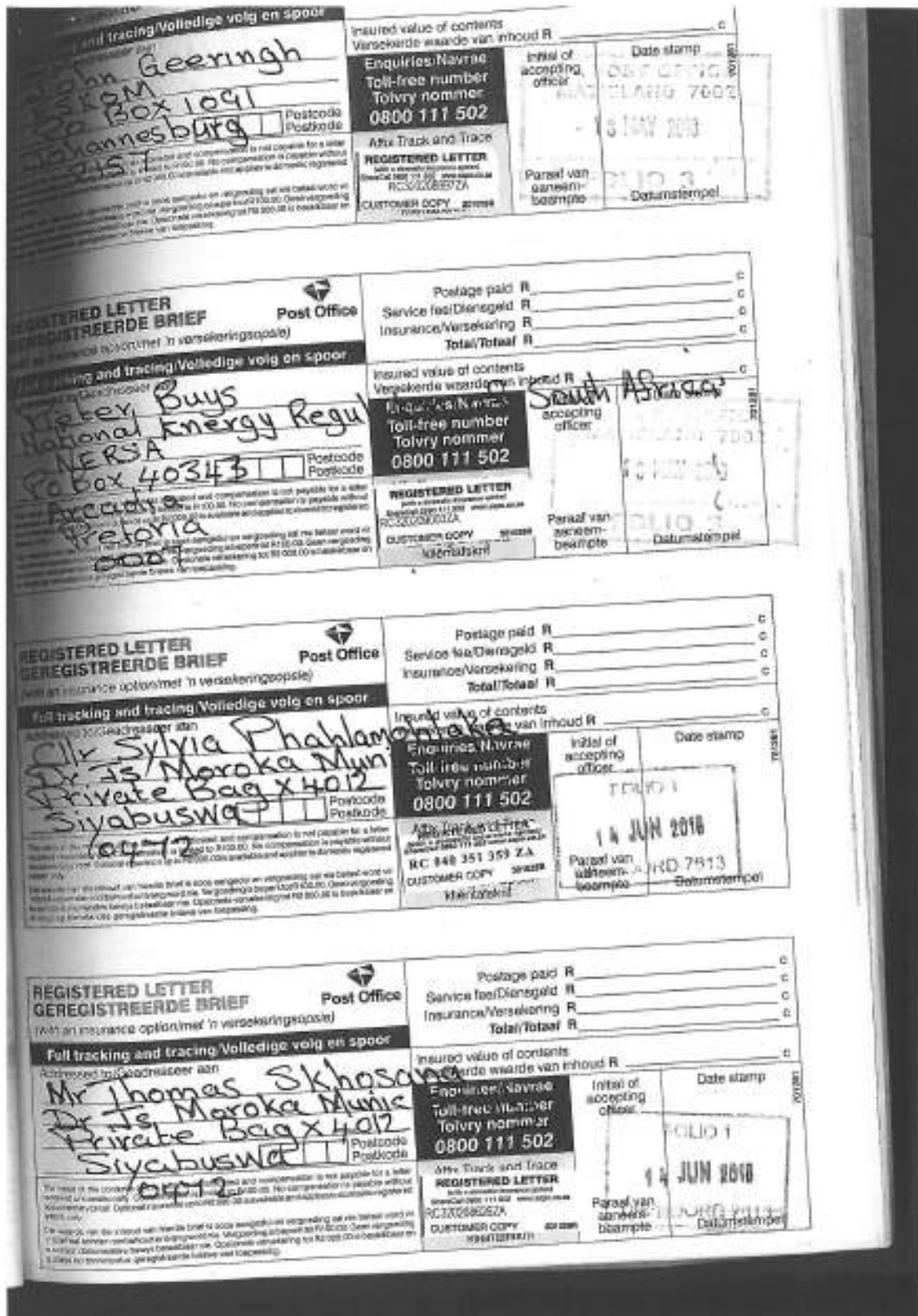


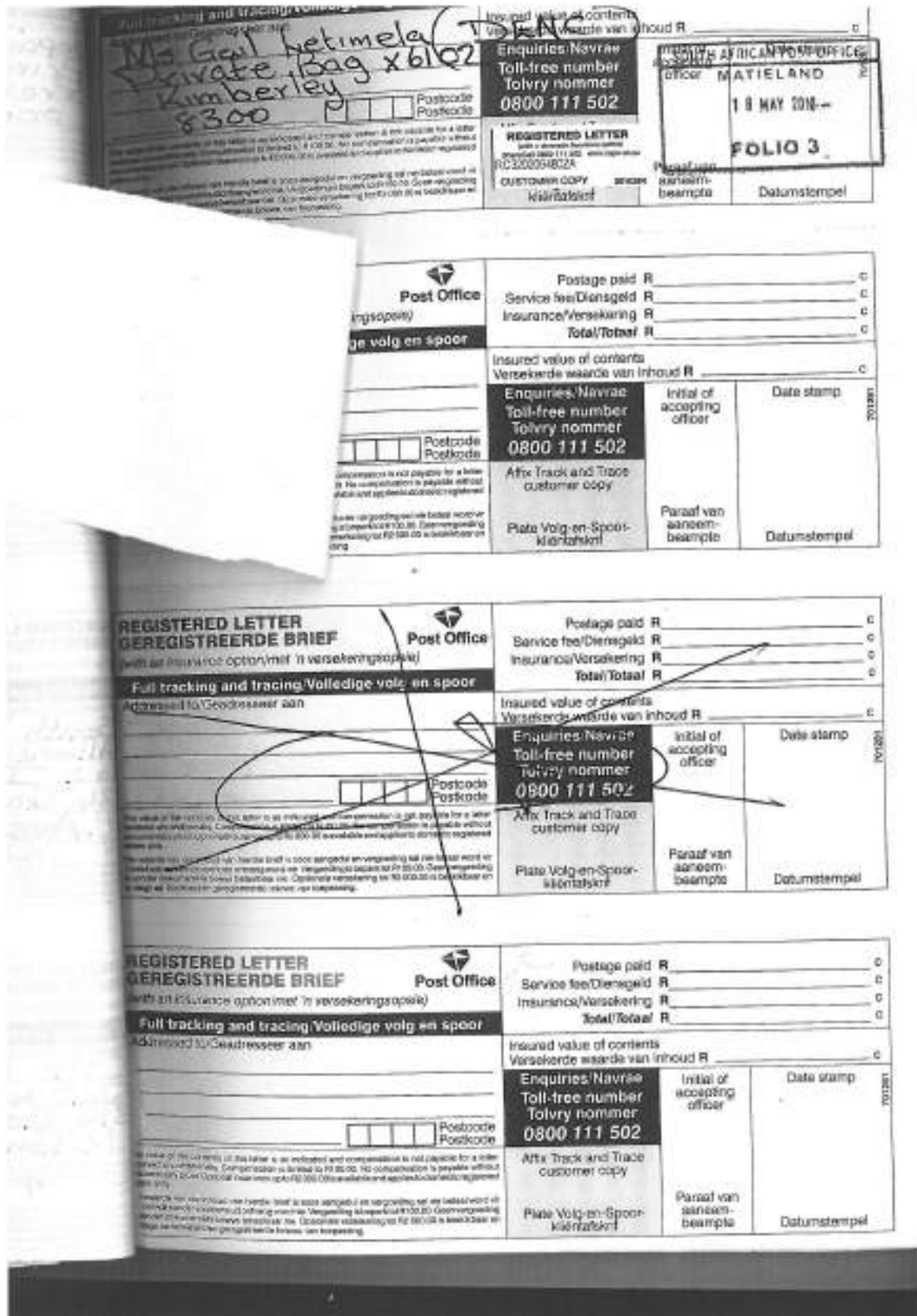
GREEN LETTER GREEN LETTER (in verskeringsopsig)	Insurance/Verskering R _____ Total/Totaal R _____
Tracking and tracing/Volledige volg en spoor	Insured value of contents Verskerde waarde van inhoud R _____
Addresser aan hlekile Nengweni Dept of Road Box 3132 Wberley	Enquiries/Klavye Toll-free number Tolvry nommer 0800 111 502
Postcode Postkode	Initial of accepting officer Datumstempel 3 MAY 2013
<small>Postage and compensation is not payable for a letter with a value exceeding R100.00. Die aansoek vir vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry en vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry.</small>	REGISTERED LETTER With a tracking certificate option Met 'n volg en spoor sertifikaat opsie RC:000086024 CUSTOMER COPY Klantskrif

RED LETTER REDEERDE BRIEF (in verskeringsopsig)	Postage paid R _____ Service fee/Diensgeld R _____ Insurance/Verskering R _____ Total/Totaal R _____
Tracking and tracing/Volledige volg en spoor	Insured value of contents Verskerde waarde van inhoud R _____
Addresser aan Linca Mei Department of Water Private Bag 5912 Pingston	Enquiries/Klavye Toll-free number Tolvry nommer 0800 111 502
Postcode Postkode	Initial of accepting officer Datumstempel 3 MAY 2013
<small>Postage and compensation is not payable for a letter with a value exceeding R100.00. Die aansoek vir vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry en vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry.</small>	REGISTERED LETTER With a tracking certificate option Met 'n volg en spoor sertifikaat opsie RC:000086024 CUSTOMER COPY Klantskrif

RED LETTER REDEERDE BRIEF (in verskeringsopsig)	Postage paid R _____ Service fee/Diensgeld R _____ Insurance/Verskering R _____ Total/Totaal R _____
Tracking and tracing/Volledige volg en spoor	Insured value of contents Verskerde waarde van inhoud R _____
Addresser aan ne de Kock th African Roads A orthen Cape Wes Private Bag 119 Bethville	Enquiries/Klavye Toll-free number Tolvry nommer 0800 111 502
Postcode Postkode	Initial of accepting officer Datumstempel 3 MAY 2013
<small>Postage and compensation is not payable for a letter with a value exceeding R100.00. Die aansoek vir vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry en vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry.</small>	REGISTERED LETTER With a tracking certificate option Met 'n volg en spoor sertifikaat opsie RC:000086024 CUSTOMER COPY Klantskrif

RED LETTER REDEERDE BRIEF (in verskeringsopsig)	Postage paid R _____ Service fee/Diensgeld R _____ Insurance/Verskering R _____ Total/Totaal R _____
Tracking and tracing/Volledige volg en spoor	Insured value of contents Verskerde waarde van inhoud R _____
Addresser aan guta Makoena Dept of Mineral R Private Bag 581 Arcadia	Enquiries/Klavye Toll-free number Tolvry nommer 0800 111 502
Postcode Postkode	Initial of accepting officer Datumstempel 3 MAY 2013
<small>Postage and compensation is not payable for a letter with a value exceeding R100.00. Die aansoek vir vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry en vergoeding is nie betaalbaar vir 'n brief met 'n waarde wat oorskry R100.00 oorskry.</small>	REGISTERED LETTER With a tracking certificate option Met 'n volg en spoor sertifikaat opsie RC:000086024 CUSTOMER COPY Klantskrif





REGISTERED LETTER GEREGISTREERDE BRIEF		Post Office	
(with an insurance option/niet 'n versekeringsopsie)		Postage paid R _____ c	Service fee/Diensgeld R _____ c
Full tracking and tracing/Volledige volg en spoor		Insurance/Verskering R _____ c	Total/Totaal R _____ c
Addressed to/Gedreë aan <i>CSIR Stellenbosch</i>		Insured value of contents Versekerde waarde van inhoud R _____ c	
<i>20 on 1st</i>		Enquiries/Navres Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer <i>[Signature]</i>
Postcode Postkode		After Track and Trace customer copy	Date stamp Datumstempel <i>13 JUN 2019</i>
<small>The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R1000. No compensation is payable without documentary proof. Opname van inhoud van hierdie brief is soos aangegee en vergoeding sal nie betaalbaar word as 'n brief onvoorwaardelik ontvang word. Vergoeding is beperk tot R1000. Geen vergoeding is betaalbaar sonder dokumentêre bewys. Opname van inhoud van hierdie brief is soos aangegee en is beperk tot R1000. Vergoeding is nie betaalbaar sonder dokumentêre bewys nie.</small>		After Track and Trace klantekopie	Initial of accepting officer <i>[Signature]</i>

REGISTERED LETTER GEREGISTREERDE BRIEF		Post Office	
(with an insurance option/niet 'n versekeringsopsie)		Postage paid R _____ c	Service fee/Diensgeld R _____ c
Full tracking and tracing/Volledige volg en spoor		Insurance/Verskering R _____ c	Total/Totaal R _____ c
Addressed to/Gedreë aan <i>3/Three Minister of CSIR</i>		Insured value of contents Versekerde waarde van inhoud R _____ c	
Postcode Postkode		Enquiries/Navres Toll-free number Tolvry nommer 0800 111 502	Initial of accepting officer <i>[Signature]</i>
<small>The value of the contents of this letter is as indicated and compensation is not payable for a letter received unconditionally. Compensation is limited to R1000. No compensation is payable without documentary proof. Opname van inhoud van hierdie brief is soos aangegee en vergoeding sal nie betaalbaar word as 'n brief onvoorwaardelik ontvang word. Vergoeding is beperk tot R1000. Geen vergoeding is betaalbaar sonder dokumentêre bewys. Opname van inhoud van hierdie brief is soos aangegee en is beperk tot R1000. Vergoeding is nie betaalbaar sonder dokumentêre bewys nie.</small>		After Track and Trace customer copy	Date stamp Datumstempel FOLIO 3
		After Track and Trace klantekopie	Initial of accepting officer <i>[Signature]</i>

GlobeFlight
 1867 388 882
 www.globeflight.com
 P.O. Box 1196, Kimberley, Northern Cape

DATE: 17-5-18
 ACCOUNT NUMBER: 17-5-18
 POST OFFICE: 7000
 SHIPPER (YOUR NAME): M. Wessels
 COMPANY NAME: CSIR - STELLENBOSCH
 STREET ADDRESS: 11 JAN OLIJERS STR STELLENBOSCH

TO: RECIPIENT'S NAME: Department of Water & Sanitation
 COMPANY NAME: Department of Water & Sanitation
 STREET ADDRESS: 28 Central Road, WINTERA
 CITY: Baccarfield, BOX 10
 COUNTRY: S.A.
 POST ZIP CODE: 8301

POST ZIP CODE: 7000
 TELEPHONE NUMBER & E-MAIL: 021 880 2400

INTERNATIONAL SERVICES:
 TO LOCAL DOCUMENT EXPRESS
 TO LOCAL PARCEL EXPRESS
 SPECIALS
 AIRFREIGHT
 CROSS BORDER HAZ. (WEIGHT)

DOMESTIC SERVICES:
 OVERNIGHT EXPRESS
 NEXT DAY DELIVERY
 BUDGET CANAL ET-40 HRS
 ROAD FREIGHT 48-96 HRS

DOMESTIC SERVICES:
 SAME DAY
 SAME DAY DELIVERY BY 15:00
 SATURDAY DELIVERY
 AFTER HOURS
 PUBLIC HOLDING

HAZARDOUS: YES NO
 CARGO: YES NO
 INSURANCE: YES NO
 AMOUNT: R17-5-18

DECLARATION: Declarant

ACTUAL WEIGHT: 1

REMARKS: (MULTIPLE)
 1 X X
 X X
 X X
 X X
 X X
 X X
 X X
 X X
 X X

DESCRIPTION OF CONTENTS: Document

Special Instructions:
 Please refer to delivery status in Terms & Conditions

Barcode: 2718710539

GlobeFlight
 0800 331 888
 www.globeflight.co.za
 Reg No: 13962002201 VAT No: 458175361

2718710545

DATE: 17-5-18	ACCOUNT NUMBER: 17-5-18	COST CODE: PORTCH	SHIPPER'S REFERENCE: 0210014718	SHIPPER'S NAME: 1																																			
SHIPPER (YOUR NAME): J. Leerdal		TO RECIPIENT'S NAME: Stanley Thibanezweni																																					
COMPANY NAME: CSIR - STELLENBOSCH		COMPANY NAME: Nat Dept of Environmental Affairs																																					
STREET ADDRESS: 11 JAN GILBERS STR		STREET ADDRESS: Addressing Crosschry, Environmental Health																																					
CITY: STELLENBOSCH		CITY: 173 See Biko Road																																					
CAPE TOWN		CITY: Arcadia, Pretoria																																					
COUNTRY: RSA		COUNTRY: S A																																					
TELEPHONE NUMBER & E MAIL: 021 889 3400		TELEPHONE NUMBER & E MAIL: 012-399 9000																																					
POST/ZIP CODE: 7600		POST/ZIP CODE: 0001																																					
<table border="1"> <tr> <th>INTERNATIONAL SERVICES</th> <th>DOMESTIC SERVICES</th> <th>DOMESTIC SERVICES</th> <th>DOMESTIC SERVICES</th> <th>ACTUAL WEIGHT</th> </tr> <tr> <td>GLOBAL DELIVERY EXPRESS</td> <td>OVERNIGHT EXPRESS</td> <td>SAVEDAY</td> <td>SPECIAL INSTRUCTIONS:</td> <td></td> </tr> <tr> <td>GLOBAL PRIORITY EXPRESS</td> <td>IN CITY DELIVERY</td> <td>DAYTIME DELIVERY BY 9AM</td> <td>DESCRIPTION OF CONTENTS:</td> <td></td> </tr> <tr> <td>GLOBAL</td> <td>BUSINESS DELIVERY</td> <td>SATURDAY DELIVERY</td> <td>Documents</td> <td></td> </tr> <tr> <td>AFRICA</td> <td>BUSINESS DELIVERY 21-48 HRS</td> <td>AFTER HOURS</td> <td></td> <td></td> </tr> <tr> <td>ASIA</td> <td>BUSINESS DELIVERY 48-96 HRS</td> <td>PUBLIC HOLIDAY</td> <td></td> <td></td> </tr> <tr> <td>OCEANIA</td> <td>POSTAL REGISTER 48-96 HRS</td> <td></td> <td></td> <td></td> </tr> </table>					INTERNATIONAL SERVICES	DOMESTIC SERVICES	DOMESTIC SERVICES	DOMESTIC SERVICES	ACTUAL WEIGHT	GLOBAL DELIVERY EXPRESS	OVERNIGHT EXPRESS	SAVEDAY	SPECIAL INSTRUCTIONS:		GLOBAL PRIORITY EXPRESS	IN CITY DELIVERY	DAYTIME DELIVERY BY 9AM	DESCRIPTION OF CONTENTS:		GLOBAL	BUSINESS DELIVERY	SATURDAY DELIVERY	Documents		AFRICA	BUSINESS DELIVERY 21-48 HRS	AFTER HOURS			ASIA	BUSINESS DELIVERY 48-96 HRS	PUBLIC HOLIDAY			OCEANIA	POSTAL REGISTER 48-96 HRS			
INTERNATIONAL SERVICES	DOMESTIC SERVICES	DOMESTIC SERVICES	DOMESTIC SERVICES	ACTUAL WEIGHT																																			
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AFRICA	BUSINESS DELIVERY 21-48 HRS	AFTER HOURS																																					
ASIA	BUSINESS DELIVERY 48-96 HRS	PUBLIC HOLIDAY																																					
OCEANIA	POSTAL REGISTER 48-96 HRS																																						
<table border="1"> <tr> <td>HAZARDOUS</td> <td>YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></td> <td>WEIGHT</td> <td>1.75 kg</td> </tr> <tr> <td>CHARGES</td> <td>YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></td> <td>VOLUME</td> <td>175 cm</td> </tr> <tr> <td>INSURANCE</td> <td>YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></td> <td>DATE</td> <td>17-5-18</td> </tr> <tr> <td>AMOUNT</td> <td></td> <td></td> <td></td> </tr> </table>					HAZARDOUS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	WEIGHT	1.75 kg	CHARGES	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	VOLUME	175 cm	INSURANCE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	DATE	17-5-18	AMOUNT																						
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INSURANCE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	DATE	17-5-18																																				
AMOUNT																																							

GlobeFlight reserves the right to choose the service. "Budget" should be chosen where appropriate. Please note: not to be used in Transit & Conditions.



0861 288 888
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Tel No: 1860 000120 / 011 490 4801/7394

2718710540

DATE 17-5-18	POSTCODE 7599	CITY Kuruman	COUNTRY S.A.	POST/ZIP CODE 0460	AMOUNT & EXPORT CODE X X X X X X
SHIPPER (YOUR NAME) M. Leuterich		TO (RECIPIENT'S NAME) Ms Tundele Di Setale		CHECKS (MEMBERSHIP) X X X X X X	
COMPANY NAME GSR STELLENBOSCH		COMPANY NAME John Talle Gatsweu District Municipality		DESCRIPTION OF COVERS Documents	
STREET ADDRESS 11 JAN OLLIBERS STR OPPELLENBOSCH		STREET ADDRESS School Street		SPECIFIC INSTRUCTIONS	
CITY/TOWN OPPELLENBOSCH		CITY Kuruman		SPECIFIC INSTRUCTIONS	
POSTAL NUMBER & E-MAIL 7599		COUNTRY S.A.		SPECIFIC INSTRUCTIONS	
TELEPHONE NUMBER & E-MAIL 053-729411		TELEPHONE NUMBER & E-MAIL 053-729411		SPECIFIC INSTRUCTIONS	
POSTAL CODE 7599		POST/ZIP CODE 0460		SPECIFIC INSTRUCTIONS	
INTERNATIONAL SERVICES		DOMESTIC SERVICES		SPECIFIC INSTRUCTIONS	
<input type="checkbox"/> GLOBAL DOCUMENT EXPRESS <input type="checkbox"/> GLOBAL PARCEL EXPRESS <input type="checkbox"/> SPECIALS <input type="checkbox"/> ADDRESS		<input checked="" type="checkbox"/> SPEEDY EXPRESS <input type="checkbox"/> NOTY DELIVERY <input type="checkbox"/> REGISTER PARCEL 21-48 HRS <input type="checkbox"/> TRACK TRACHT 48-96 HRS		SPECIFIC INSTRUCTIONS	
<input type="checkbox"/> CROSS BORDER MAIL FREIGHT <input type="checkbox"/> CROSS BORDER MAIL		<input type="checkbox"/> REGISTER PARCEL 21-48 HRS <input type="checkbox"/> TRACK TRACHT 48-96 HRS		SPECIFIC INSTRUCTIONS	
HAZARDOUS YES <input type="checkbox"/> NO <input type="checkbox"/> INSURANCE YES <input type="checkbox"/> NO <input type="checkbox"/> AMOUNT: 17-5-18		HAZARDOUS YES <input type="checkbox"/> NO <input type="checkbox"/> INSURANCE YES <input type="checkbox"/> NO <input type="checkbox"/> AMOUNT: 17-5-18		SPECIFIC INSTRUCTIONS	

GlobeFlight reserves the right to choose the service. "Budget" should be service used by selected.

Please refer expressly clause 41 Terms & Conditions.

GlobeFlight

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Reg No. 13492920027 / VAT NO. 401018139

2718710538

DATE: 17-5-18

ACCOUNT NUMBER: 1001

COST CENTER: EN150121 (EUR)

SHIPMENT REFERENCE: 0210441/SE

ORIGIN: 1

DESTINATION: 1

SHIPPER (YOUR NAME): M. LeGraded

COMPANY NAME: M. LeGraded

SHIP TO ADDRESS: 11 JAN CHILLERS STR
STELLENBOSCH

CITY: STELLENBOSCH

COUNTRY: SOUTH AFRICA

POSTZIP CODE: 7799

TELEPHONE NUMBER & E-MAIL: 7799

TO (RECIPIENT'S NAME): M. B. Choche

COMPANY NAME: R. Senganyen Local Municipality

SHIP TO ADDRESS: c/o Wouter's School Street

CITY: Kuruman

COUNTRY: SOUTH AFRICA

POSTZIP CODE: 8410

TELEPHONE NUMBER & E-MAIL: 053-712 9900 / 053-563 3293

INTERNATIONAL SERVICES

GLOBAL DOCUMENT EXPRESS

GLOBAL PARCEL EXPRESS

SPECIALS

ADVERTISING

DANGER / HAZARDOUS ROAD FREIGHT

CUSTOMER VALUE: A 15kg

DOMESTIC SERVICES

OVERNIGHT EXPRESS

IN CITY DELIVERY

INSURET (MAX 21-48 HRS)

ROAD FREIGHT 48-96 HRS

COMBIP SERVICES

SALE LAR

DAMN DELIVERY BY 09:00

SATISFACTION GUARANTEED

AFTER HOURS

EX-CELLERATE

HAZARDOUS CARGO? YES NO

INSURANCE YES NO

AMOUNT: R 17518

ACTIVE/WEIGHT

BEDEL	WEIGHT	ACTIVE
1	X	X
	X	X
	X	X
	X	X
	X	X
	X	X
	X	X
	X	X
	X	X

REPORT & EXPORT CODE

SPECIAL INSTRUCTIONS: Deurans



061 187 1152
www.globeright.com
P.O. Box 1881, VOOERSDORP, 6401, Northern Cape

311 27-5-18 SHIPPER VOL/NUMBER COMPANY NAME M. Luthredy CITY - STELLENBOSCH STREET ADDRESS 11 JAN GILLIERS STR STELLENBOSCH CITY CAPE TOWN COUNTRY SOUTH AFRICA TELEPHONE NUMBER & E-MAIL 021 888 2400		312 NO. RECEIPTS PAID COMPANY NAME The Librarian CITY PUBLIC LIBRARY STREET ADDRESS Gungahra, Local Municipality 46 Frisby Ridge, Windhoek, F.R.G. CITY KOKON COUNTRY S.A. TELEPHONE NUMBER & E-MAIL 053-723-6000	313 2718710541
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INTERNATIONAL SERVICES

INTERNATIONAL EXPRESS

CUSTOMS FORMS - EXPRESS

AIRMAILS

LOGS BOOKS & FORMS (FREE)

CUSTOMER SERVICE

IF YOU WANT A SERVICE TO BE PROVIDED TO YOU, PLEASE TICK THE APPROPRIATE BOX.

YES NO

POSTALAGE YES NO

AMOUNTS: R 175

DOMESTIC SERVICES

COAST GUARD SERVICE

EXCESS WEIGHT / OVERSIZE

DELIVERY TO ADDRESS

DELIVERY TO AIRMAIL

DELIVERY TO AIRMAIL

DELIVERY TO AIRMAIL

DELIVERY TO AIRMAIL

DELIVERY TO AIRMAIL

POSTAGE & EXPORT CODE

POSTAGE CODE: 7599

COUNTRY: S.A.

POSTAGE CODE: 053-723-6000

DISCOUNTS ON COMMODITY

COMMODITY	DISCOUNT
1	X
X	X
X	X
X	X
X	X

APPROX & EXPORT CODE: X X

Dynamid

2718710541





1881 388 883
www.globeright.com
Reg. No. 1965/2005/07/VAT No. 480775811

SHIPPER (COUNTRIES)	17-S-18	ACCOUNT NUMBER	PROJECT	SHIPPER REFERENCE	EMSOIS 1 / km 02100101156	QUANTITY	1
SHIPPER (COUNTRY NAME)		COMPANY NAME	M. G. G. G. G.	TO: DISCREPANT'S NAME	Elisabe Sebrot	POSTAL CODE	
COMPANY NAME		STREET ADDRESS	CSIR - STELLENBOSCH 11 JAN CILLIERS STR STELLENBOSCH	STREET ADDRESS	Post Dept of Environment's Nature Conservation Saske Building LVERTO A 90 Lang Street Kimberley	POSTAL CODE	8301
COUNTRY	CAPE TOWN	POSTAL CODE	7590	COUNTRY	S.A.	POSTAL CODE	8301
TELEPHONE NUMBER & E.MAIL	021 888 2400	TELEPHONE NUMBER & E.MAIL		TELEPHONE NUMBER & E.MAIL	053-807-7481	TELEPHONE NUMBER & E.MAIL	
INTERNATIONAL SERVICES	<input type="checkbox"/> GLOBAL DOCUMENT EXPRESS <input type="checkbox"/> GLOBAL PRIORITY EXPRESS <input type="checkbox"/> SPECIAL <input type="checkbox"/> AIRFREIGHT <input type="checkbox"/> EXPRESS BOTTLE HAND FREIGHT <input type="checkbox"/> CUSTOMER VALUE	DOMESTIC SERVICES	<input type="checkbox"/> OVERNIGHT EXPRESS <input type="checkbox"/> IN CITY DELIVERY <input type="checkbox"/> 9:00AM TO 9:00PM 24 HR <input type="checkbox"/> NEXT BUSINESS DAY <input type="checkbox"/> NEXT BUSINESS DAY <input type="checkbox"/> NEXT BUSINESS DAY	DOMESTIC SERVICES	<input type="checkbox"/> SAME DAY <input type="checkbox"/> EARLY DELIVERY BY 9:00 <input type="checkbox"/> SATURDAY DELIVERY <input type="checkbox"/> AFTER HOURS <input type="checkbox"/> PUBLIC DELIVERY <input type="checkbox"/> NEXT BUSINESS DAY <input type="checkbox"/> NEXT BUSINESS DAY <input type="checkbox"/> NEXT BUSINESS DAY	DESCRIPTION OF CONTENTS	Documents
HAZARDOUS	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	INSURANCE	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	AMOUNT	17-S-18		



2718710544



0851 304 600
www.globeright.com
Tel No: 0851304600 / 087 601 45511111



2718710546

SHIPPER (YOUR NAME)	HT SIK		POSTCODE			TO (RECIPIENT'S NAME)	GINSORI JAZUN		POSTCODE			ACTUAL WEIGHT					
COMPANY NAME	M LERUWAL		ZIP CODE			COMPANY NAME	Mukhammad Espo		ZIP CODE			TOTAL WEIGHT					
CSIR - STELLENBOSCH STREET ADDRESS	11 JAN CILLIERS STR		STELLENBOSCH CITY	STELLENBOSCH		CSIR - STELLENBOSCH STREET ADDRESS	101 Natl of Environment Affairs, Integrated Environments; Environment House;		STELLENBOSCH CITY	STELLENBOSCH		ACTUAL WEIGHT					
CAPE TOWN	POSTZIP CODE:		COUNTRY	S.A.		POSTZIP CODE:	0601		STELLENBOSCH CITY	STELLENBOSCH		ACTUAL WEIGHT					
TELEPHONE NUMBER & E.MAIL	021 888 2400		TELEPHONE NUMBER & E.MAIL	017-349 9406		TELEPHONE NUMBER & E.MAIL			STELLENBOSCH CITY	STELLENBOSCH		ACTUAL WEIGHT					
INTERNATIONAL SERVICES	<input type="checkbox"/> GLOBAL DELIVERY EXPRESS <input type="checkbox"/> GLOBAL PACEL EXPRESS <input type="checkbox"/> SPECIAL <input type="checkbox"/> AIRFREIGHT		DOMESTIC SERVICES	<input type="checkbox"/> OVERNIGHT EXPRESS <input type="checkbox"/> IN CITY DELIVERY <input type="checkbox"/> AIRPORT (09:00-18:00)		DOMESTIC SERVICES	<input checked="" type="checkbox"/> SAME DAY <input type="checkbox"/> MORNING DELIVERY BY 09:00 <input type="checkbox"/> AFTERNOON DELIVERY <input type="checkbox"/> AFTER HOURS		INTERNATIONAL SERVICES	<input type="checkbox"/> AIRFREIGHT <input type="checkbox"/> AIRPORT (09:00-18:00)		DOMESTIC SERVICES	<input type="checkbox"/> AIRFREIGHT <input type="checkbox"/> AIRPORT (09:00-18:00)		INTERNATIONAL SERVICES	<input type="checkbox"/> AIRFREIGHT <input type="checkbox"/> AIRPORT (09:00-18:00)	
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AMOUNT	17.500		AMOUNT	17.500		AMOUNT	17.500		AMOUNT	17.500		AMOUNT	17.500		AMOUNT	17.500	

Documents

D6: Comments received from I&APs following review of the Draft Scoping Report



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X-447- PRETORIA - 0001- Environment House - 473 Steve Biko Road- PRETORIA
Tel (+ 27 12) 309 9372

DEA Reference: 14/12/16/3/3/2/1066

Enquiries: Mr Vincent Chauke

Telephone: (012) 309 9399 E-mail: vincek@environment.gov.za

Ms Minneise Levendal
Council for Scientific and Industrial Research (CSIR)
Po Box 320
STELLENBISCH
7599

Telephone Number: (021) 888 2495
Email Address: mlevendal@csir.co.za

PER E-MAIL / MAIL

Dear Ms Levendal

COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF THE 225MW KURUMAN PHASE 2 WIND ENERGY FACILITY NEAR KURUMAN WITHIN GA-SEGONYANA LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE

The draft Scoping Report (SR) dated May 2018 and the application form received by this Department on 18 May 2018, refer.

Following the review of the draft SR and the application form, this Department has the following comments:

- a. Please ensure that all relevant listed activities are applied for, are specific and can be linked to the development activity or infrastructure as described in the project description.
- b. If the activities applied for in the application form differ from those mentioned in the draft SR, an amended application form must be submitted with the final SR. Please note that the Department's application form template has been amended and can be downloaded from the following link <https://www.environment.gov.za/documents/forms>
- c. Please ensure that all issues raised and comments received during the circulation of the SR from registered I&APs and organs of state which have jurisdiction (including this Department's Biodiversity Section) in respect of the proposed activity are adequately addressed in the Final SR. Proof of correspondence with the various stakeholders must be included in the Final SR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. The Public Participation Process must be conducted in terms of Regulation 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.
- d. Due to similar applications in the area, all the specialist assessments must include a cumulative environmental impact statement. All identified cumulative impacts must be clearly defined, and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land.
- e. The identified cumulative impacts associated with the proposed development must be rated with the significance rating methodology.
- f. The cumulative impacts significance rating must inform the need and desirability of the proposed development.

- g. Detailed cumulative impact assessments must be provided in the EIA for all specialist studies conducted. The specialist studies must provide proof that other specialist reports that were conducted for renewable energy projects in the area were reviewed and indicate how the recommendations, mitigation measures and conclusions have been taken into consideration when the conclusion and mitigation measures were drafted for this project.
- h. The 12 months Bird and Bat Monitoring must be conducted in line with the latest guidelines. A copy of the latest guidelines can be found on the BirdLife South Africa's and SABAAP's website.
- i. The final Scoping Report must indicate and describe the competing land uses in the area. This must further motivate the desirability of locating the wind energy facility at the preferred location.
- j. The final SR must include a Draft layout plan for the proposed 225MW Kuruman Phase 2 Wind Energy Facility.

You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of Scoping reports in accordance with Appendix 2 and Regulation 21(1) of the EIA Regulations, 2014, as amended.

Further note that in terms of Regulation 45 of the EIA Regulations 2014, as amended, this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of these Regulations, unless an extension has been granted in terms of Regulation 3(7).

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Signed by: Mr Danie Smit

Designation: Deputy Director: Integrated Environmental Authorisations: Protected Areas

Date: 29/05/2018

cc:	Constantin Hatzilambros	Mullio Renewable Property Developments (Pty) Ltd	Email: gconstantin@mullio.com
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water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Northern Cape Provincial Operations, Private Bag X6101, Kimberley 8300; 28 Central Road, Beaconsfield, Kimberley, 8301

☎	(053) 830 8825	✉	P. Maimango
✉	mmainango@dws.gov.za	☎	(053) 836 7640
		📄	1627/D41/A/20070

CSIR (On behalf of Mulilo Renewable Project Developments (Pty) Ltd)
P. O. Box 320
Stellenbosch
7599

mlevendal@csir.co.za / lkellerman@csir.co.za

BY REGISTERED MAIL/EMAIL

Attention: Minnelise Levandal/ Lizande Kellerman

RE: DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A WIND ENERGY FACILITY PHASE 2 BY MULILO RENEWABLE PROJECT DEVELOPMENT (PTY) LTD, ON PORTION 1 AND REMAINING EXTENT OF FARM BRAMCOTE 446 NEAR KURUMAN, IN THE LOWER VAAL BUSINESS UNIT OF THE VAAL WATER MANAGEMENT AREA, NORTHERN CAPE PROVINCE

1. BACKGROUND

The Department of Water and Sanitation (from herein referred to as the Department or DWS) received a draft scoping report requesting comment for the proposed development of a Wind Energy Facility by Mulilo Renewable Project Developments (Pty) Ltd which is to take place on portion 1 and remaining extent of farm Bramcote 446, near Kuruman in the Northern Cape Province. The document was then reviewed with reference to the National Water Act (Act No. 36 of 1998) and the following are the comments;

As mentioned in the report, the Department takes note that the proposed activity at the above mentioned locations will include:

1. Construction of 52 turbines with a hub height of and rotary diameter of 80 - 140m and 100 - 160m respectively;



NATIONAL DEVELOPMENT PLAN
Our Future - make it work

RE: DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A WIND ENERGY FACILITY PHASE 2 BY MULILO RENEWABLE PROJECT DEVELOPMENT (PTY) LTD, ON PORTION 1 AND REMAINING EXTENT OF FARM BRAMCOTE 446 NEAR KURUMAN, IN THE LOWER VAAL BUSINESS UNIT OF THE VAAL WATER MANAGEMENT AREA, NORTHERN CAPE PROVINCE

2. Construction of the main road, the facility associated substation for the transmission of electricity to neighbouring towns along with construction camp, parking area, offices, ablution facilities (on site sanitation is also proposed), workshop area, etc;
3. The construction and operation of a powerline for transmission.

The area falls within the D41L quaternary catchment in the Lower Vaal Business Unit of the Vaal River Water Management Area. No application for water use licence (or General Authorisation confirmation) has been submitted as part of this project.

2. Distance from the water course

Please note that our Department rates all perennial and non-perennial rivers together with all dry river beds and natural drainage and associated riparian areas extremely sensitive to development. An option of developing furthest away from the all water course would be the preferred option.

Please note that no development or mining should be done within 100 m or 1:100 year flood line of any water course and 500m of wetlands without authorisation from our Department. The water courses should be delineated in order to provide appropriate buffer to maintain such water course. The delineation should be done according to the appropriate Department of Water and Sanitation's delineation document.

The construction camp shall not be located within the 1:100 year flood line or within 100 meters whatever is the greatest from any watercourse. Operation and storage of equipment within the riparian zone must be limited as far as possible.

Vehicles and other machinery must be serviced well above the 1:100 year flood line or within a horizontal distance of 100 meters from any watercourse or estuary. Oils and other potential pollutants must be disposed off at an appropriate licensed site, with the necessary agreement from the owner of such a site.

3. Storm Water management

Any storm water must be diverted from the construction works and roads and must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water flow. Where necessary, works must be constructed to attenuate the velocity of the storm water discharge and to protect the banks of the watercourse. Storm water control works must be constructed, operated and maintained in a sustainable manner throughout the project.

Increased runoff due to vegetation clearance and/or soil compaction 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. Storm water leaving the construction site

RE: DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A WIND ENERGY FACILITY PHASE 2 BY MULILO RENEWABLE PROJECT DEVELOPMENT (PTY) LTD, ON PORTION 1 AND REMAINING EXTENT OF FARM BRAMCOTE 446 NEAR KURUMAN, IN THE LOWER VAAL BUSINESS UNIT OF THE VAAL WATER MANAGEMENT AREA, NORTHERN CAPE PROVINCE

must in no way be contaminated by any substance, whether such substance is a solid, liquid, vapour or gas or a combination thereof which is produced, used, stored, dumped or spilled on the premises.

4. Invasive alien vegetation

Vegetation must be monitored and managed on an on-going basis during construction and operation. Alien vegetation must not be allowed to further colonise the area, and all new alien vegetation recruitment must be eradicated or controlled, using standard methods approved by the Department.

5. Design and layout of mining

A detailed layout plan needs to be submitted to our Department showing all the facilities in the proposed development, distance from the any watercourses and bathroom facilities.

Details of the final design must also be supplied as soon as a decision has been made, as the details of this factor may influence the environmental impact both during the construction and operational phases of the project.

6. Construction

Material with pollution generating potential must be limited in any construction activities. Any hazardous substances must be handled according to the relevant legislation relating to transport, storage and use of the substance.

Any spillage of any hazardous materials including diesel that may occur during construction and operation must be reported immediately to our Department.

7. Waste Management

Rubbish bins and Enviro loose/mobile toilets must be there and enough for the people on site during construction. A letter of consent from a registered waste facility to allow contractor to empty the toilet facility at their sewer system should be submitted to our department.

All sewage, grey and wash water, as well as any waste generated during the construction phase of the facilities will be collected, contained and disposed of at the permitted and / or licensed facilities of the Local Authority and this must please be confirmed in writing by the local authority.

RE: DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A WIND ENERGY FACILITY PHASE 2 BY MULILO RENEWABLE PROJECT DEVELOPMENT (PTY) LTD, ON PORTION 1 AND REMAINING EXTENT OF FARM BRAMCOTE 446 NEAR KURUMAN, IN THE LOWER VAAL BUSINESS UNIT OF THE VAAL WATER MANAGEMENT AREA, NORTHERN CAPE PROVINCE

8. Rehabilitation

Soils that have become compacted through the activities of the development must be loosened to an appropriate depth to allow seed germination. The necessary erosion prevention mechanisms must be employed to ensure the sustainability of all structures and activities and to prevent in-stream sedimentation. Rehabilitation remains the sole responsibility of the applicant and the Department.

9. Water use entitlement

The Department notes that the applicant has not submitted a request for a water use authorisation from our Department. Please be informed that engaging in water use activities is unlawful without necessary authorisation from our Department. Please note that an application can be lodged electronically via the Electronic Water Use Licence Application and Authorisation (EWULAA) system (www.dws.gov.za/ewulaas).

10. Issues to take into consideration

The applicant is to submit an Environmental Management Programme (EMP) or final Environmental Impact Assessment (EIA) and it should take the following issues into consideration:

- a) Should the project continue; a site visit and pre consultation site inspection must be conducted by a DWS official with the applicant, which will be followed by an application for Water Use Authorisation. This must be submitted to DWS in terms of the National Water Act, 1998 (Act 36 of 1998) before any activities take place. For a water use licence application to be considered, the following needs to be provided:
 - i. Fully completed application forms. The water uses that will possibly be triggered are section 21 (a), (b), (c), (g) and (i) in terms of the National Water Act (Act 36 of 1998). These forms for the various water uses are available on the [DWS website \(https://www.dws.gov.za/Projects/WARMS/Licensing/licensing1.aspx\)](https://www.dws.gov.za/Projects/WARMS/Licensing/licensing1.aspx) or upon request;
 - ii. Registration fee (R115) and proof of payment;
 - iii. Certified copy of the representative's id or company registration certificate;
 - iv. Copy of the property title deed;
 - v. Copy of the property zoning document;
 - vi. Letter of consent from land owner if the applicant is not the land owner;
 - vii. A copy of 1:50 000 topographic map / 1:10 000 indicating map name number of farm boundaries including subdivision;

RE: DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A WIND ENERGY FACILITY PHASE 2 BY MULILO RENEWABLE PROJECT DEVELOPMENT (PTY) LTD, ON PORTION 1 AND REMAINING EXTENT OF FARM BRAMCOTE 446 NEAR KURUMAN, IN THE LOWER VAAL BUSINESS UNIT OF THE VAAL WATER MANAGEMENT AREA, NORTHERN CAPE PROVINCE

- viii. Approved EMP, Water Quality Management Report, Geohydrological Report; with Overall Water Balance;
 - ix. Signed Design Drawings and Engineer Report (Pollution control dam, storm water trenches, evaporation dams, facilities, onsite sanitation etc), designed by ECSA registered Engineer;
 - x. Environmental Impact Assessment Report and Environmental Authorisation/RoD From Environmental Affairs;
 - xi. Public Participation Correspondence (notice proof and minutes from meeting);
 - xii. Section 27 (1) of NWA of 1998 No. 36 and proof of BBBEE status;
 - xiii. Service level agreement with waste collector (sewage, domestic and oil) and water services provider (for the provision of water services);
 - xiv. Company Share certificates and shareholding breakdown;
 - xv. Proof of preferred bidder status from the Department of Energy;
 - xvi. Closure rehabilitation Plan; and
 - xvii. Clearance Letter from Land Claim
- b) The EIA/EMP must clearly show all water courses as defined in the National Water Act, 1998 (Act 36 of 1998) as well as the delineated 1:100 year flood lines. No activity may occur within the 1:100 year flood line of a river/drainage lines without authorisation. No activity may occur within the 500 metres radius of a pan/wetland (perennial/non perennial) without authorisation.
- c) The EIA/EMP must clearly show the methods for collecting, storing, transporting and finally disposing of all waste products produced as well as the responsible and accountable persons. This includes written consent from the relevant accredited waste disposal site/ sewage disposal/ oil disposal in handling the waste. All applicable sections of the National Environmental Management: Waste Act 59 of 2008 should be strictly adhered to.
- d) The EIA/EMP must clearly identify all risks that are associated with the project that can affect the water resources in and around the project area and state all implementable measures to prevent and respond to accidents and abnormal events that may occur.
- e) The EIA/EMP must clearly identify all risks that are associated with the project that can affect the water resources in and around the project area and state all

RE: DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A WIND ENERGY FACILITY PHASE 2 BY MULILO RENEWABLE PROJECT DEVELOPMENT (PTY) LTD, ON PORTION 1 AND REMAINING EXTENT OF FARM BRAMCOTE 446 NEAR KURUMAN, IN THE LOWER VAAL BUSINESS UNIT OF THE VAAL WATER MANAGEMENT AREA, NORTHERN CAPE PROVINCE

corresponding measures to prevent and respond to accidents and abnormal events that may occur.

- f) The EIA/EMP must clearly show through a responsibility matrix and organogram the responsible persons for implementing the mitigation measures and reporting lines, in the event of an accident.
- g) The EIA/EMP must show in written form that the developer has made a legally binding commitment to implement the proposed mitigation measures and that these measures are not only suggestions and recommendations.
- h) The EIA/EMP must clearly show the process followed if the developer does not comply with the legal requirements of the EMP and National Water Act, 1998 (Act No 36 of 1998).

11. Conclusion

The Department therefore has no objects to this activity if the applicant has provided proof of adherence to the above mentioned recommendations.

This reply does not grant any exemption from the requirements of any applicable Act, Ordinance, Regulation or By-law.

Should you have any further queries, please contact the relevant official at the number above.

Yours faithfully,

Mahunonyane

PP **MR. MOSES MAHUNONYANE**
DIRECTOR: INSTITUTIONAL ESTABLISHMENT
NORTHERN CAPE OPERATIONS
DATE: 24/05/2018



I&AP COMMENT & REGISTRATION FORM

PROPOSED CONSTRUCTION OF THE KURUMAN PHASE 1 AND KURUMAN PHASE 2 WIND ENERGY FACILITIES AND ASSOCIATED INFRASTRUCTURE NEAR KURUMAN, NORTHERN CAPE PROVINCE

PLEASE SUBMIT ALL COMMENTS BY 21 JUNE 2018

Please provide your full contact details:	
First Name: <i>CLIVE</i>	Surname: <i>ALBERT</i>
Organisation: <i>ALBERT RETREAT</i>	Designation: <i>OWNER</i>
Postal Address: <i>RANCH 150 BOX 1268 KURUMAN</i>	Street Address: <i>1798 M RETREAT KURUMAN</i>
Postal Code: <i>81160</i>	Street Code:
Phone: ()	Fax: ()
Cell: <i>0823395524</i>	Email: <i>info@albertretreat.co.za</i>

Please indicate if you want to be registered as an Interested and Affected Party (I&AP) for the proposed projects (please tick the appropriate box). PLEASE NOTE: Registration as an I&AP is required in order to receive further correspondence regarding the EIA Process

YES NO

Please clearly state any interest (business, financial, personal or other) you may have in the projects and/or the applications for Environmental Authorisation:

I am the owner of the Farms

Please describe any issues or concerns you may have which you think should be considered during the Scoping and Environmental Impact Assessment Processes:

Please provide details of any other individuals or organisations that should be registered as I&APs:

Please return all completed I&AP Comment & Registration Forms to Ms Lizande Kellerman at:

CSIR | PO Box 320 | Stellenbosch | 7599
 Tel: (021) 888 2489 | Fax: (021) 888 2693 | Email: kellerman@csir.co.za
 Please visit the project website at:
<https://www.csir.co.za/environmental-impact-assessment>



I&AP COMMENT & REGISTRATION FORM

PROPOSED CONSTRUCTION OF THE KURUMAN PHASE 1 AND KURUMAN PHASE 2 WIND ENERGY FACILITIES AND ASSOCIATED INFRASTRUCTURE NEAR KURUMAN, NORTHERN CAPE PROVINCE

PLEASE SUBMIT ALL COMMENTS BY 21 JUNE 2018

Please provide your full contact details:	
First Name: <u>RYAN</u>	Surname: <u>ALBERT</u>
Organisation: <u>angus Butchery</u>	Designation: <u>owner</u>
Postal Address: <u>PO Box 2710</u> <u>Kuruman</u>	Street Address: <u>Mainstreet</u> <u>Kuruman</u>
Postal Code: <u>8460</u>	Street Code: <u>546</u>
Phone: <u>(053) 712 3594</u>	Fax: <u>(053) 712 3555</u>
Cell: <u>053 258 4656</u>	Email: <u>angus@iscit.co.za</u>
Please indicate if you want to be registered as an interested and Affected Party (I&AP) for the proposed projects (please tick the appropriate box). PLEASE NOTE: Registration as an I&AP is required in order to receive further correspondence regarding the EIA Process	
YES	<input checked="" type="checkbox"/> NO
Please clearly state any interest (business, financial, personal or other) you may have in the projects and/or the applications for Environmental Authorisation:	
<u>financial</u>	
Please describe any issues or concerns you may have which you think should be considered during the Scoping and Environmental Impact Assessment Processes:	
Please provide details of any other individuals or organisations that should be registered as I&APs:	

Please return all completed I&AP Comment & Registration Forms to Ms Lizande Kelleman at:

CSIR | PO Box 320 | Stellenbosch | 7699
 Tel: (021) 888 2489 | Fax: (021) 888 2693 | Email: lkelleman@csir.co.za
 Please visit the project website at:



I&AP COMMENT & REGISTRATION FORM

PROPOSED CONSTRUCTION OF THE KURUMAN PHASE 1 AND KURUMAN PHASE 2 WIND ENERGY FACILITIES AND ASSOCIATED INFRASTRUCTURE NEAR KURUMAN, NORTHERN CAPE PROVINCE

PLEASE SUBMIT ALL COMMENTS BY 21 JUNE 2018

Please provide your full contact details:			
First Name:	Dana	Surname:	Poolman
Organisation:	Land Owner	Designation:	Farmer
Postal Address:	P.O.Box 542 Kuruman	Street Address:	Farm Spitzberg Alphen Kuruman
Postal Code:	8460	Street Code:	8460
Phone: ()		Fax: ()	
Cell:	0679205810	Email:	spitzberg8@gmail.com

Please indicate if you want to be registered as an Interested and Affected Party (I&AP) for the proposed projects (please tick the appropriate box). **PLEASE NOTE:** Registration as an I&AP is required in order to receive further correspondence regarding the EIA Process

YES	<input checked="" type="checkbox"/>	NO	
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Please clearly state any interest (business, financial, personal or other) you may have in the projects and/or the applications for Environmental Authorisation:

Financial and Personal

Please describe any issues or concerns you may have which you think should be considered during the Scoping and Environmental Impact Assessment Processes:

View and Noise

Please provide details of any other individuals or organisations that should be registered as I&APs:

Please return all completed I&AP Comment & Registration Forms to Ms Lizande Kellerman at:

CSIR | PO Box 320 | Stellenbosch | 7599
Tel: (021) 888 2489 | Fax: (021) 888 2693 | Email: l.kellerman@csir.co.za
 Please visit the project website at:
<https://www.csir.co.za/environmental-impact-assessment>

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

Our Ref:



an agency of the
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4503 | 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: 12533

Date: Monday, June 04, 2018
Page No: 1

Interim Comment

In terms of Section 38(3), 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Mulilo Renewable Project Developments (Pty) Ltd

Mulilo Renewable Project Developments (Pty) Ltd (hereafter "Mulilo") is proposing to construct two Wind Energy Facilities (WEFs), namely Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province. The proposed Kuruman WEF will be connected to the Ferrum substation (located in Kathu) or to the Segame substation (located in Kuruman) and a collector substation, via a 132 kV powerline. This report comprises the Draft Scoping Report (DSR) for the development of the Kuruman Phase 2 WEF. The proposed Kuruman Phase 2 WEF will be developed on the following land portions: • Portion 1 of Farm Bramcote 446; and • Remainder of Farm Bramcote 446. In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations (as amended), promulgated in Government Gazette 40772 and Government Notice (GN) R326, R327, R325 and R324 on 7 April 2017, a full Scoping and EIA Process is required for the construction of the proposed Kuruman Phase 2 WEF. Mulilo has appointed the Council for Scientific and Industrial Research (CSIR) to undertake the EIA Process in order to determine the biophysical, social and economic impacts associated with undertaking the proposed activities. Given that energy related projects have been elevated to national strategic importance in terms of the EIA Process, the proposed WEF requires authorisation from the National Department of Environmental Affairs (DEA) as the Competent Authority (CA), acting in consultation with other spheres of government.

The Council for Scientific and Industrial Research (CSIR) was appointed by Mulilo Renewable Project Developments to conduct an Environmental Authorisation (EA) Application process for the proposed Kuruman Phase 2 Wind Energy Facility (WEF) near Kuruman, Northern Cape Province. A draft Scoping Report (DSR) has been completed in terms of the National Environmental Management Act, 1998 (NEMA) and the 2017 NEMA Environmental Impact Assessment (EIA) Regulations. The proposed development will include the construction of between 20 – 52 wind turbines with reinforced concrete foundations (20 m x 20 m) and crane platforms (50 m x 50 m), a collector substation, operations and maintenance building with parking area, workshops, water storage, septic tanks and communication tower, construction site office, construction yard and laydown area, access road, internal access roads 5 m wide, underground cables between turbines, stormwater channels and culverts. A transmission line will also be required; however, this will be assessed as

Scoping and Environmental Impact Assessment for the proposed development of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern Cape

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 4607 | Cape Town | 8001
www.sahra.org.za

Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 12593

Date: Monday, June 04, 2018
Page No: 2

part of a separate EA application process.

CTS Heritage has been appointed to provide heritage input into the DSR.

Wiltshire, N. 2018. Kuruman WEF for the Proposed Development of the Phase 2 Kuruman Wind Farm Facility, Kuruman, Northern Cape Province: Scoping Report.

The heritage specialists noted that the proposed development area is underlain by Precambrian sediments, Ghaap Group and Postmasburg Group formations of low palaeontological sensitivity. However, the Campbell Rand carbonites near Kuruman may contain stromatolites, and the Late Cenozoic superficial sediments may contain fossils, especially near major drainage lines. The specialists also anticipate that heritage resources such as Early, Middle and Later Stone Age sites, rock art, ruined farm infrastructure and old mines. There may also be a visual impact on the cultural landscape that will require further assessment. The Wonderwerk Cave National Heritage Site is located 25 km south east of the proposed development. It is recommended that a complete Heritage Impact Assessment (HIA) inclusive of an assessment of archaeology and palaeontology be conducted. Additional elements that must be assessed include the impacts to the cultural landscape, built environment resources, graves and burial grounds and mining heritage.

Interim Comment

The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit notes that an HIA will be conducted as part of the EIA phase of the application. The HIA must comply with section 38(3) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), the SAHRA 2006 Minimum Standards: Archaeological and Palaeontological Component of Impact Assessments and SAHRA 2012 Minimum Standards: Palaeontological Component of Heritage Impact Assessments. The reports must be compiled by the relevant qualified specialists.

Further comments will be issued upon receipt of the above.

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

Yours faithfully

A handwritten signature in black ink, appearing to be 'N. Higgitt', is written over a horizontal line.

Scoping and Environmental Impact Assessment for the proposed development
of the Kuruman Phase 2 Wind Energy Facility near Kuruman in the Northern
Cape

Our Ref:



an agency of the
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4503 | E: info@sahra.org.za
South African Heritage Resources Agency | 111 Harrington Street | Cape Town
P.O. Box 4607 | Cape Town | 8001
www.sahra.org.za

Enquiries: Natasha Higgitt
Tel: 021 462 4502
Email: nhiggitt@sahra.org.za
CaseID: 12593

Date: Monday, June 04, 2016
Page No: 3

Natasha Higgitt
Heritage Officer
South African Heritage Resources Agency

A handwritten signature in black ink, appearing to read 'Phillip Hine', is written over a horizontal line.

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

ADMIN:
Direct URL to case: <http://www.sahra.org.za/node/504882>



Reference: NC11/2/1 – N14
Date: 21 May 2018
Email: abrahamsn@sra.co.za

Fax no: +27 (0) 21 910 1699
Direct Line: +27 (0) 21 957 4602
Website: www.sanral.co.za

CSIR
Ms L Kellerman
PO BOX 320
STELLENBOSCH
7599

●
Creating
wealth through
infrastructure

PROPOSED KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES NEAR KURUMAN, NORTHERN CAPE

Dear Ms L Kellerman

The above project bears reference.

●
The South African National Roads Agency SOC Limited (SANRAL) has received background information and a site layout plan for this project. Based on the proximity of the WEF at Kathu, it appears that SANRAL could be impacted by this development. Due to the proposed development being situated along the N14 you are herewith required to apply to SANRAL for services.

If services need to be constructed over or under the national road, (in this case the N14) or within 60m measured from the road reserve fence, the service owner must apply for a written permission from SANRAL, before any work may be carried out. Attached please find an application form for the proposed encroachment.

Kindly also indicate the closest blue kilometre markers number for ease of reference. I would also use this opportunity to register SANRAL as an I&AP for this particular project.

Do not hesitate to contact the sender should you have any further queries.

I trust that you will find the above in order.

Regards

Ms Nicole Abrahams
Environmental Coordinator

Board of Directors: Mr R Mose (Chairperson), Mr E Moseleme (COO), Ms A Viljoen, Mr C Hlabisa, Ms Z Kganyago, Dr A Louw, Ms D Mashile-Nkomo, Mr M Mabasa
Company Secretary: Ms AA Mathew



WAYLEAVE / ENCROACHMENT APPLICATION

APPLICATION AND CONSENT IN TERMS OF SECTION 48 OF THE SA NATIONAL ROADS AGENCY AND NATIONAL ROADS ACT, ACT 7 OF 1998 TO ENCROACH ON THE NATIONAL ROAD RESERVE BOUNDARY OR WITHIN THE BUILDING RESTRICTION AREA

All areas marked with red * is compulsory fields and must be completed.

*SERVICE OWNER: (*Please note that SANRAL is not the service owner)	*APPLICANT:
*Postal Address:	*Postal Address:
*Contact Person:	*Contact Person:
*Telephone:	*Telephone:
Facsimile:	Facsimile:
Cell phone:	Cell phone:
*E-mail:	*E-mail:
Contractor Contact Details: Telephone:	

***PURPOSE OF APPLICATION**


- To install a new service
- To maintain/repair, replace an existing services
- To occupy or perform other operations (specify)
- Haul new cable in existing Ducts and install new pipes
- Install new cable on existing Pole Route

← Mark with X

***SERVICE DETAILS AND REQUIRED DRAWINGS TO ACCOMPANY THE APPLICATION**

FULLY DESCRIBE, TYPE OF SERVICE, AND WORK TO BE UNDERTAKEN IN THE ROAD RESERVE OR BUILDING RESTRICTION AREA INDICATING CLEARLY THE LOCATION AND POSITION RELATED TO THE BLUE NATIONAL ROAD MARKER BOARDS AND ROAD RESERVE BOUNDARY. DRAWINGS REQUIRED: (CROSS SECTIONS AND REINSTATEMENT DRAWINGS AT HOR 1: 500 VERT 1: 50) (DETAIL LAYOUT AT 1:1000) (LOCALITY PLAN 1: 10000) AND ANY OTHER SPECIAL DRAWING WHICH THE SANRAL MAY REQUIRE

EXAMPLE



NATIONAL ROADS MARKER BOARDS AT 200 M INTERVALS

Information compulsory

ROUTE AND SECTION

CROSSING AT KILOMETRE

PARALLEL FROM KILOMETRE TO

BETWEEN LANDMARKS/ INTERCHANGES And

DESCRIPTION					
*Your Reference:			Your Drawing No's:		
*GENERAL INFORMATION [mark with X]					
<div style="background-color: #e0e0e0; padding: 2px; font-size: 8px;"> IF YOU DO NOT COMPLETE/INDICATE EITHER OR CROSSING OR UNDER OR OVER STRUCTURE WITHIN ROAD CORRELY OR A CROSSING UNDER STRUCTURE WITHIN THE POSITION OF THE SERVICE STRUCTURE OR POSITION TO THE ROAD YOU WILL BE RESPONSIBLE FOR ANY DAMAGE TO BEING DONE TO THE ROAD OR TO THE SERVICE. </div>					
WATER <input type="checkbox"/> SEWER <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input type="checkbox"/> ELECTRICITY <input type="checkbox"/> TELEPHONE <input type="checkbox"/>					
Crossing under/In road [] In existing Duct [] Through Structure []			Crossing Overhead [] Parallel Underground [] Parallel Overhead [] Street Lighting []		Jacking Under Road [] Auger Under Ramps []
GENERAL INFORMATION continued.....[Mark with X]					
*SERVICE PARALLEL TO NATIONAL ROAD:					
From Marker Board km. Point	To Marker Board km. Point	Distance within <input type="checkbox"/> / outside <input type="checkbox"/> Road Reserve Boundary (left or right) North Bound being left	Buried <input type="checkbox"/> Depth / Height	Overhead <input type="checkbox"/> Size & Type of Service	
*SERVICE CROSSING NATIONAL ROAD					
Km Point	Buried <input type="checkbox"/> Overhead <input type="checkbox"/>			THROUGH CULVERT	
	Depth below or height in meters above Roadway	Size & type Or Voltage	Dist of structures from Road Reserve Boundary Left & Right North being left	Size, Type & class of sleeve/ duct	Cross-Sectional Area of Structure

*LOCATION OF SERVICE IN BRIDGE STRUCTURE:		
Km Point	Bridge Number	Interchange/Bridge Name

*PLEASE NOTE: CONSENT VALID FOR TWELVE MONTHS FROM APPROVAL

DECLARATION BY SERVICE OWNER:		
I ACCEPT ALL CONDITIONS IMPOSED IN TERMS OF ANY AGREEMENT BETWEEN THE SA NATIONAL ROADS AGENCY AND OUR FIRM AS THE SERVICE OWNER AND ALL CONDITIONS IMPOSED ON THIS APPLICATION. I AM AUTHORISED TO SIGN ON BEHALF OF THE SERVICE OWNER		
PRINT NAME	SIGNATURE	DATE

COMPLETED FORM TO BE RETURN TO:
REGIONAL MANAGER
SA NATIONAL ROADS AGENCY LTD
PRIVATE BAG X19,
BELLVILLE, 7535
FOR ATTENTION: STATUTORY SECTION
TEL: +27(21) 957 4600
FAX: + 27(21) 910 1699
E-MAIL: runkelc@nra.co.za

FOR SOUTH AFRICAN NATIONAL ROADS AGENCY USE		
COMPLETION DATE	FILE REFERENCE	CONSENT NUMBER
<input type="text"/>	<input type="text"/>	<input type="text"/>
REGIONAL MANAGER	DATE APPROVED	

D7: Comments and Response Trail

This chapter presents the comments that were raised by stakeholders, I&APs and Organs of State during the Scoping Phase and responses to the comments.

Identification of Issues

An important element of the EIA process is to evaluate the issues raised through the interactions with authorities, the public, the specialists on the EIA team and the project proponent. In accordance with the philosophy of Integrated Environmental Management, it is important to focus the EIA on the key issues, such as those issues that are considered critical for decision-making on the EA.

To assist in the identification of key issues, a decision-making process is applied to the issues raised, based on the following criteria:

- Whether or not the issue falls within the scope and responsibility of the proposed project; and
- Whether or not sufficient information is available to respond to the issue raised without further specialist investigation.

Issues were sourced by the EIA team from the following Scoping interactions:

- **Newspaper Advertisement** - In order to inform the public of the proposed project and invite members of the public to register as I&APs, and to inform the EIA consultant about specific issues or interests in the proposed project, the proposed Kuruman Wind Energy Facility (WEF) and EIA process were advertised in one local newspaper (i.e. "Kathu Gazette") on the 24th February 2018. A copy of the newspaper advertisement is included in Appendix D of this Final Scoping Report.
- **Newspaper Advertisement** - In order to inform the public of the release of the Draft Scoping Report for the proposed project and invite members of the public to comment, and to inform the EIA consultant about specific issues or concerns regarding the proposed project, a notification was published in one local newspaper (i.e. "Kathu Gazette") on the 19th May 2018. A copy of the newspaper advertisement is included in Appendix D of this Final Scoping Report.
- **Site Notices** – site notices describing the project as well as the contact details of the EAP were placed at several locations on site and nearby at the start of the EIA process, as seen in Appendix D.
- **Background Information Document** - In order to inform the public of the proposed project and invite members of the public to register as I&APs, and to inform the EIA consultant about specific issues or interests in the proposed project, a Background Information Document (BID) providing details on the proposed Kuruman WEF and EIA process were distributed to several stakeholders and Interested and Affected Parties and copies were also placed in the local library, as seen in Appendix D, as well as published on the project website with the following link: <https://www.csir.co.za/environmental-impact-assessment>
- **Email** – Emails were sent out as part of the public participation process undertaken for the 30-day review of the Draft Scoping Report (dated 18 May 2018). Proof of this correspondence can be seen in Appendix D.

All comments received following the release of the BID and during the 30-day period of the Draft Scoping Report for I&AP review are included in the Comments and Responses Table below, as well as in Appendix D of this Final Scoping Report.

The tables below summarise the comments and/or issues raised following the release of the Draft Scoping Report for I&AP review, together with a response from the EIA team. Copies of the comments received are included in **Appendix D** of this Final Scoping Report.

Table 1: Comments received following the release of the Draft Scoping Report for the 30-day review period, together with the response from the EIA team

**Please note that the comments are taken verbatim from the comments provided by I&APs*

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
1	<p>NATIONAL DEPARTMENT OF ENVIRONMENTAL AFFAIRS (DEA) Private Bag X 447, PRETORIA 0001 Environment House, 473 Steve Biko Road, Arcadia, PRETORIA Tel: +27 (12) 399 9372</p> <p>Dear Ms Levendal,</p> <p>COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED KURUMAN PHASE 2 WIND ENERGY FACILITY NEAR KURUMAN WITHIN GA-SEGONYANA LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE</p> <p>The draft Scoping Report (SR) dated May 2018 and the application form received by this Department on 18 May 2018, refer.</p> <p>Following the review of the draft SR and the application form, this Department has the following comments:</p> <p>a. Please ensure that all relevant listed activities are applied for, are specific and can be linked to the development activity or infrastructure as described in the project description.</p> <p>b. If the activities applied for in the application form differ from those mentioned in the draft SR, an amended application form must be submitted with the final SR. Please note that the Department</p>	<p>Mr Sabelo Malaza Chief Director: Integrated Environmental Authorisation</p> <p>DEA Reference: 14/12/16/3/3/2/1066</p> <p>Enquiries: Mr Vincent Chauke</p> <p>Telephone: (012) 399 9399 E-mail: vchauke@environment.gov.za</p>	<p>29 May 2018 Letter received via email and per postage</p>	<p><u>CSIR:</u></p> <p>Thank you for the comments provided, duly noted. Please see responses below as per the corresponding numbering:</p> <p>a. The relevant listed activities that are applied for are specific and linked to the development activity or infrastructure (please refer to Table 4.1 in Chapter 4 for the relevant listed activities that are being applied for).</p> <p>b. The listed activities originally applied for in the application form are still correct and valid, thus no updated application form required at this time.</p> <p>c. Please refer to Appendix C for the I&AP database. Please refer to Appendix D for proof of correspondence to I&APs, as well as copies of the comments received from I&APs. The said authorities were invited to comment on the Draft Scoping Report. Please note that an application for this project has been created on SAHRIS, and the</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
	<p>application form template has been amended and can be downloaded from the following link - https://www.environment.gov.za/documents/forms</p> <p>c. Please ensure that all issues raised and comments received during the circulation of the SR from registered I&APs and organs of state which have jurisdiction (Including this Department's Biodiversity Section) in respect of the proposed activity are adequately addressed in the Final SR. Proof of correspondence with the various stakeholders must be included in the Final SR. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments. The Public Participation Process must be conducted in terms of Regulation 39, 40 41, 42, 43 & 44 of the EIA Regulations 2014, as amended.</p> <p>d. Due to similar applications in the area, all the specialist assessments must include a cumulative environmental impact statement. All identified cumulative impacts must be clearly defined, and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land.</p> <p>e. The identified cumulative impacts associated with the proposed development must be rated with the significance rating methodology.</p> <p>f. The cumulative impacts significance rating must inform the need and desirability of the proposed development.</p> <p>g. Detailed cumulative impact assessments must be provided in the EIAR for all specialist studies conducted. The specialist studies must provide proof that other specialist reports that were conducted for renewable energy projects in the area were reviewed and indicate how the recommendations, mitigation measures and conclusions have been taken into consideration when the conclusion and</p>			<p>following reference number was assigned: Case ID: 12497. Comments were received from SAHRA (see Appendix D for a copy of the letter from SAHRA). All comments received have been responded to in this Issues and Responses Trail which is included in Appendix D. Proof of correspondence with the relevant authorities is included in Appendix D. Comments received from DEA (Integrated Environmental Authorisation section) are included in Appendix D, as well as proof of correspondence with authorities who did not provide comments on the Draft Scoping Report. CDs of the Draft Scoping Report were sent to the Department's Biodiversity Conservation section. Please see the courier slip in Appendix D3 as proof that CDs of the Draft Scoping Report were sent to them. The courier was addressed to Mr Stanley Tshitwamulomoni, but contained two CDs-the second CD was for Ms Pamela Kershaw of the Protected Area Management Directorate). A CD of the report was also sent to Ms Wilma Lutsch (Biodiversity Conservation) via registered mail on 18 May 2018 (see Appendix D for proof of registered mail sent). An email was also sent to these officials on 18 May 2018 to notify them of the release of the Draft Scoping Report for comment (please refer to Appendix D5 for proof of emails sent).</p> <p>d. The cumulative impacts have been assessed by the specialists during the Scoping Phase. It will be further assessed in their full specialist</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
	<p>mitigation measures were drafted for this project.</p> <p>h. The 12-months Bird and Bat Monitoring must be conducted in line with the latest guidelines. A copy of the latest guidelines can be found on the BirdLife South Africa's and SABAAP's website.</p> <p>i. The final Scoping Report must indicate and describe the competing land uses in the area. This must further motivate the desirability of locating the wind energy facility at the preferred location.</p> <p>j. The final SR must include a Draft layout plan for the proposed 225MW Kuruman Phase 2 Wind Energy Facility.</p> <p>k. You are further reminded that the final SR to be submitted to this Department must comply with all the requirements in terms of the scope of assessment and content of Scoping reports in accordance with Appendix 2 and Regulation 21(1) of the EIA Regulations, 2014, as amended.</p> <p>l. Further note that in terms of Regulation 45 of the EIA Regulations 2014, as amended, this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of these Regulations, unless an extension has been granted in terms of Regulation 3(7).</p> <p>m. You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.</p>			<p>reports which will be included in the Draft and Final EIA Reports. All the requirements listed will be adhered to in the EIA Phase.</p> <p>e. The cumulative impacts have been rated with the significance rating methodology as indicated in Table 6.1 of this Final Scoping Report. This will also be done in the EIA phase.</p> <p>f. The cumulative impacts have been assessed by the specialists during the Scoping phase and this assessment was used to inform the need and desirability of the proposed development. The cumulative impacts will be further assessed in the EIA phase which will further inform the need and desirability of the proposed development.</p> <p>g. The cumulative impacts will be assessed by all the specialists and all the requirements listed will be adhered to in the EIA Phase.</p> <p>h. The 12-months Bird and Bat Monitoring was conducted in line with the latest guidelines.</p> <p>i. The competing land use is predominantly agriculture, i.e. grazing. The area is mostly mountainous with steep ridges and competing land uses are limited. A description of the adjacent land use is included in the specialist studies (please refer to Appendix E).</p> <p>j. The Draft layout plan for the proposed Kuruman Phase 2 Wind Energy Facility is included in Chapter 2 of this Final Scoping Report.</p> <p>k. The Final Scoping Report complies with the requirements of Appendix 2 of the 2014</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
				<p>NEMA EIA Regulations, as amended. Please refer to Table 1.2 of Chapter 1 for a checklist of these requirements and where it has been addressed in the Final Scoping Report.</p> <p>l. Noted. The timeframes as prescribed in Regulation 45 of the NEMA EIA Regulations will be strictly adhered to.</p> <p>m. Noted. This requirement will be complied with.</p>
2	<p>NATIONAL DEPARTMENT OF WATER AND SANITATION (DWS) Northern Cape Provincial Operations Private Bag X6101, Kimberley 8300 28 Central Road, Beaconsfield, Kimberley 8301</p> <p>RE: DRAFT SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF A WIND ENERGY FACILITY PHASE 2 BY MULILO RENEWABLE PROJECT DEVELOPMENT (PTY) LTD, ON PORTION 1 AND REMAINING EXTENT OF FARM BRAMCOTE 446 NEAR KURUMAN, IN THE LOWER VAAL BUSINESS UNIT OF THE VAAL WATER MANAGEMENT AREA, NORTHERN CAPE PROVINCE</p> <p>1. BACKGROUND</p> <p>The Department of Water and Sanitation (from herein referred to as the Department or DWS) received a draft scoping report requesting comment for the proposed development of a Wind Energy Facility by Mulilo Renewable Project Developments (Pty) Ltd which is to take place on portion 1 and remaining extent of farm Bramcote 446, near Kuruman in the Northern Cape Province. The document was then reviewed with reference to the National Water Act (Act No. 36 of 1998) and the following are the comments:</p> <p>As mentioned in the report, the Department takes note that the proposed activity at the above mentioned locations will include:</p>	<p>Mr. Moses Mahunonyane Director: Institutional Establishment Department of Water and Sanitation Northern Cape Operations</p> <p>DWS Reference: 16/2/7/D41L/A/3/8070</p> <p>Enquiries: P. Msimango Tel: 053 836 7649 Email: msimangop@dws.gov.za</p>	<p>24 May 2018 Letter received via registered mail</p>	<p>CSIR:</p> <p>Thank you for the comments provided, duly noted.</p> <ol style="list-style-type: none"> It is noted that the proposed project falls within the within the D41L quaternary catchment in the Lower Vaal Business Unit of the Vaal River Water Management Agency. The relevant Water Use Licences (or General Authorisation confirmation) will be applied for as applicable. DWS will be consulted with in this regard during the EIA phase. Noted. All the requirements as stipulated by DWS will be adhered to. The requirements from DWS regarding the management of stormwater on site are noted and will be adhered to. A detailed Stormwater Management Plan will be compiled and will be included in the Environmental Management Plan (EMP) which will be included in the Draft and Final EIA Reports. DWS will have the opportunity

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
	<p>1. Construction of 52 turbines with a hub height of and rotary diameter of 80 - 140m and 100 - 160m respectively;</p> <p>2. Construction of the main road, the facility associated substation for the transmission of electricity to neighbouring towns along with construction camp, parking area, offices, ablution facilities (on site sanitation is also proposed), workshop area, etc.;</p> <p>3. The construction and operation of a powerline for transmission.</p> <p>The area falls within the D41L quaternary catchment in the Lower Vaal Business Unit of the Vaal River Water Management Area. No application for water use licence (or General Authorization confirmation) has been submitted as part of this project.</p> <p>2. DISTANCE FROM THE WATER COURSE</p> <p>Please note that our Department rates all perennial and non-perennial rivers together with all dry river beds and natural drainage and associated riparian areas extremely sensitive to development. An option of developing furthest away from the all water course would be the preferred option.</p> <p>Please note that no development or mining should be done within 100 m or 1:100 year flood line of any water course and 500m of wetlands without authorisation from our Department. The water courses should be delineated in order to provide appropriate buffer to maintain such water course. The delineation should be done according to the appropriate Department of Water and Sanitation's delineation document.</p> <p>The construction camp shall not be located within the 1:100 year flood line or within 100 meters whatever is the greatest from any watercourse. Operation and storage of equipment within the riparian zone must be limited as far as possible.</p>			<p>to comment on the Stormwater Management Plan with the release of the Draft EIA Report for a 30-day commenting period.</p> <p>4. The requirements from DWS regarding the management of invasive alien vegetation on site are noted and will be adhered to. A detailed Invasive Alien Vegetation Management Plan will be compiled and will be included in the Environmental Management Programme (EMPr) which will be included in the Draft and Final EIA Reports. DWS will have the opportunity to comment on the Invasive Alien Vegetation Management Plan with the release of the Draft EIA Report for a 30-day commenting period.</p> <p>5. A detailed layout plan will be included in the Draft EIA Report which will be submitted to DWS for comment. The layout plan will show all the facilities in the proposed development footprint as well as the distance from the any watercourses and bathroom facilities.</p> <p>6. The requirements from DWS regarding the management of hazardous substances on site will be adhered to. Any hazardous substances will be handled according to the relevant legislation relating to transport, storage and use of the substance. A detailed Hazardous substances leakage or spillage monitoring system will be compiled and will</p>

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	<p>Vehicles and other machinery must be serviced well above the 1:100 year flood line or within a horizontal distance of 100 meters from any watercourse or estuary. Oils and other potential pollutants must be disposed of at an appropriate licensed site, with the necessary agreement from the owner of such a site.</p> <p>3. STORM WATER MANAGEMENT</p> <p>Any storm water must be diverted from the construction works and roads and must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water flow. Where necessary, works must be constructed to attenuate the velocity of the storm water discharge and to protect the banks of the watercourse. Storm water control works must be constructed, operated and maintained in a sustainable manner throughout the project.</p> <p>Increased runoff due to vegetation clearance and/or soil compaction 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. Storm water leaving the construction site must no way be contaminated by any substance, whether such substance is solid, liquid, vapour or gas or a combination thereof which is produced, used stored, dumped or spilled on the premises.</p> <p>4. INVASIVE ALIEN VEGETATION</p> <p>Vegetation must be monitored and managed on an on-going basis during construction and operation. Alien vegetation must not be allowed to further colonise the area, and all new alien vegetation recruitment must be eradicated or controlled, using standard methods approved by the Department.</p>			<p>be included in the Environmental Management Programme (EMPr) which will be included in the Draft and Final EIA Reports. DWS will have the opportunity to comment on the system with the release of the Draft EIA Report for a 30-day commenting period.</p> <p>7. The requirements from DWS regarding the management of waste on site are noted and will be adhered to. A letter of consent from a registered waste facility will be submitted to DWS as requested. Written confirmation from the local authority will also be obtained for the collection and disposal of waste at a permitted and/or licensed facility. A detailed Waste Management Plan will be compiled and will be included in the Environmental Management Programme (EMPr) which will be included in the Draft and Final EIA Reports. DWS will have the opportunity to comment on the Waste Management Plan with the release of the Draft EIA Report for a 30-day commenting period.</p> <p>8. The requirements from DWS regarding the management of erosion on site are noted and will be adhered to. A detailed Erosion Management Plan and Rehabilitation Plan will be compiled and will be included in the Environmental Management Programme (EMPr) which will be included in the Draft and Final EIA Reports. DWS will have the opportunity to comment on these plans with</p>

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	<p>5. DESIGN AND LAYOUT OF MINING</p> <p>A detailed layout plan needs to be submitted to our Department showing all the facilities in the proposed development, distance from the any watercourses and bathroom facilities.</p> <p>Details of the final design must also be supplied as soon as a decision has been made, as the details of this factor may influence the environmental impact both during the construction and operational phases of the project.</p> <p>6 CONSTRUCTION</p> <p>Material with pollution generating potential must be limited in any construction activities. Any hazardous substances must be handled according to the relevant legislation relating to transport, storage and use of the substance.</p> <p>Any spillage of any hazardous materials including diesel that may occur during construction and operation must be reported immediately to our Department.</p> <p>7. WASTE MANAGEMENT</p> <p>Rubbish bins and Enviro loose/mobile toilets must be there and enough for the people on site during construction. A letter of consent from a registered waste facility to allow contractor to empty the toilet facility at their sewer system should be submitted to our department.</p> <p>All sewage, grey and wash water, as well as any waste generated during the construction phase of the facilities will be collected, contained and disposed of at the permitted and / or licensed facilities of the Local Authority and this must please be confirmed in writing by the local authority.</p>			<p>the release of the Draft EIA Report for a 30-day commenting period.</p> <p>9. Noted. The relevant Water Use Licences (or General Authorisation confirmation) will be applied for as applicable. DWS will be consulted with in this regard during the EIA phase.</p> <p>10. An EMPr will be included in the Draft EIA Report and will be submitted to DWS for comment.</p> <p>(a) A site visit and pre-consultation site inspection will be arranged to be conducted by a DWS official with the applicant, which will be followed by an application for Water Use Authorisation, as relevant. This will be submitted to DWS in terms of the National Water Act, 1998 (Act 36 of 1998) before any activities take place.</p> <p>(i)-xvi All the requirements for a Water Use Licence Application (WULA) from DWS are noted and will be submitted with the relevant application.</p> <p>b) A Wetland and Aquatic specialist study is being undertaken and will be included in the EIA reports. It will clearly show all water courses as defined in the National Water Act, 1998 (Act 36 of 1998) as well as the delineated 1:100 year flood lines. The relevant WULAs will be applied for, as applicable.</p> <p>c) Please refer to the response to the comment in no 7 above. The EIA Reports/EMPr will clearly</p>

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	<p>8. REHABILITATION</p> <p>Soils that have become compacted through the activities of the development must be loosened to an appropriate depth to allow seed germination. The necessary erosion prevention mechanisms must be employed to ensure the sustainability of all structures and activities and to prevent in-stream sedimentation. Rehabilitation remains the sole responsibility of the applicant and the Department.</p> <p>9. WATER USE ENTITLEMENT</p> <p>The Department notes that the applicant has not submitted a request for a water use authorisation from our Department. Please be informed that engaging in water use activities is unlawful without necessary authorisation from our Department. Please note that an application can lodged electronically via the Electronic Water Use Licence Application and Authorisation (EWULAA) system (www.dws.aov.za/ewulaas).</p> <p>10. ISSUES TO TAKE INTO CONSIDERATION</p> <p>The applicant is to submit an Environmental Management Programme (EMP) or final Environmental Impact Assessment (EIA) and it should take the following issues into consideration:</p> <p>a) Should the project continue; a site visit and pre consultation site inspection must be conducted by a DWS official with the applicant, which will be followed by an application for Water Use Authorisation. This must be submitted to DWS in terms of the National Water Act, 1998 (Act 36 of 1998) before any activities take place. For a water use licence application to be considered, the following needs to be provided:</p> <p>i. Fully completed application forms. The water uses that will possibly be triggered are section 21 (a), (b), (c), (g) and (i) in terms of the National Water Act (Act 36 of 1998). These forms</p>			<p>show the methods for collecting, storing, transporting and finally disposing of all waste products produced as well as the responsible and accountable persons. All applicable sections of the National Environmental Management: Waste Act 59 of 2008 will be strictly adhered to.</p> <p>d) A Wetland and Aquatics specialist study is being undertaken and will be included in the EIA reports. The said study will clearly identify all risks that are associated with the project that can affect the water resources in and around the project area and state all implementable measures to prevent and respond to accidents and abnormal events that may occur. The EMPr will also identify all the potential risks to the water courses and will provide mitigation measures to avoid, minimise or mitigate those impacts.</p> <p>e) Please refer to response in point (d) above.</p> <p>f) The EMPr will clearly show through a responsibility matrix and organogram of the responsible persons for implementing the mitigation measures and reporting lines, in the event of an accident.</p> <p>g) The EMPr and Environmental Authorisation (should the project be authorised) are legally binding commitments for the applicant to implement the proposed mitigation measures included in these documents.</p> <p>h) Any non-compliance by the applicant will be</p>

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	<p>for the various water uses are available on the DWS website (https://www.dwa.gov.za/Projects/WARMS/Licensing/licensing1.aspx) or upon request;</p> <ul style="list-style-type: none"> ii. Registration fee (R115) and proof of payment iii. Certified copy of the representative's id or company registration certificate; iv. Copy of the property title deed; v. Copy of the property zoning document; vi. Letter of consent from land owner if the applicant is not the land owner; vii. A copy of 1:50 000 topographic map / 1:10 000 indicating map name number of farm boundaries including subdivision; viii. Signed Design Drawings and Engineer Report (Pollution control dam, storm water trenches, evaporation dams, facilities, onsite sanitation, etc.), designed by ECSA registered Engineer; ix. Environmental Impact Assessment Report and Environmental Authorisation/RoD from Environmental Affairs; x. Public Participation Correspondence (notice proof and minutes from meeting); xi. Section 27 (1) of NWA of 1998 No. 36 and proof of BBBEE status; xiii. Service level agreement with waste collector (sewage, domestic and oil) and water services provider (for the provision of water services); xii. Company Share certificates and shareholding breakdown; xiii. Proof of preferred bidder status from the Department of Energy; xiv. Closure rehabilitation Plan; and xv. Clearance Letter from Land Claim <p>b) The EIA/EMP must clearly show all water courses as defined in the National Water Act, 1998 (Act 36 of 1998), as well as the delineated 1:100 year flood lines. No activity may occur within the 1:100 year flood line of a river/drainage lines without authorisation. No activity may occur within the 500 metres radius of a pan/wetland (perennial non</p>			<p>dealt with under the relevant provisions of NEMA and the National Water Act, 1998 (Act No 36 of 1998).</p> <p>11. The comments in the conclusion are noted.</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
	<p>perennial) without authorisation.</p> <p>c) The EIA/EMP must clearly show the methods for collecting, storing, transporting and finally disposing of all waste products produced as well as the responsible and accountable persons. This includes written consent from the relevant accredited waste disposal site/ sewage disposal/ oil disposal in handling the waste. All applicable sections of the National Environmental Management: Waste Act 59 of 2008 should be strictly adhered to.</p> <p>d) The EIA/EMP must clearly identify all risks that are associated with the project that can affect the water resources in and around the project area and state all implementable measures to prevent and respond to accidents and abnormal events that may occur.</p> <p>e) The EIA/EMP must clearly identify all risks that are associated with the project that can affect the water resources in and around the project area and state all corresponding measures to prevent and respond to accidents and abnormal events that may occur.</p> <p>f) The EIA/EMP must clearly show through a responsibility matrix and organogram the responsible persons for implementing the mitigation measures and reporting lines, in the event of an accident.</p> <p>g) The EIA/EMP must show in written form that the developer has made a legally binding commitment to implement the proposed mitigation measures and that these measures are not only suggestions and recommendations.</p> <p>h) The EIA/EMP must clearly show the process followed if the developer does not comply with the legal requirements of the EMP and National Water Act, 1998 (Act No 36 of 1998).</p>			

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	<p>11. CONCLUSION</p> <p>The Department therefore has no objects to this activity if the applicant has provided proof of adherence to the above mentioned recommendations.</p> <p>This reply does not grant any exemption from the requirements of any applicable Act, Ordinance, Regulation or By-law.</p> <p>Should you have any further queries, please contact the relevant official at the number above.</p>			
3	<p><u>Interest in the project:</u></p> <p>Financial</p> <p><u>Issues or concerns about project:</u></p> <p>None</p>	<p>Ryan Albutt</p> <p>Angus Butchery</p> <p>P O Box 2710</p> <p>Kuruman</p> <p>8460</p>	<p>21 June 2018</p> <p>Comment form received via email</p>	<p>CSIR:</p> <p><i>Email response on 21 June 2018</i></p> <p>Dear Ryan,</p> <p>Thank you very much for submitting your comment form to us, I hereby acknowledge receipt.</p> <p>Best regards, Lizande</p>
4	<p><u>Interest in the project:</u></p> <p>I am the owner of the farm</p>	<p>Clive Albutt</p> <p>Albutt Retreat (Pty) Ltd</p> <p>P O Box 1268</p> <p>Kuruman</p> <p>8460</p>		<p>CSIR:</p> <p><i>Emailed response on 21 June 2018</i></p> <p>Dear Clive,</p> <p>Thank you so much, I hereby acknowledge receipt of your comment form.</p> <p>Best regards, Lizande</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
5	<p>SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD Western Region: 1 Havenga Street, Oakdale, Bellville 7530 Private Bag X19, Bellville 7535</p> <p>PROPOSED KURUMAN PHASE 1 AND PHASE 2 WIND ENERGY FACILITIES NEAR KURUMAN, NORTHERN CAPE</p> <p>Dear Ms L Kellerman</p> <p>The above project bears reference.</p> <p>The South African National Roads Agency SOCLimited (SANRAL) has received background information and a site layout plan for this project. Based on the proximity of the WEF at Kathu, it appears that SANRAL could be impacted by this development. Due to the proposed development being situated along the N14 you are herewith required to apply to SANRAL for services.</p> <p>If services need to be constructed over or under the national road, (in this case the N14) or within 60m measured from the road reserve fence, the service owner must apply for a written permission from SANRAL, before any work may be carried out. Attached please find an application form for the proposed encroachment.</p> <p>Kindly also indicate the closest blue kilometre markers number for ease of reference. I would also use this opportunity to register SANRAL as an I&AP for this particular project.</p> <p>Do not hesitate to contact the sender should you have any further queries.</p> <p>I trust that you will find the above in order.</p>	<p>Ms Nicole Abrahams Environmental Coordinator</p> <p>SANRAL Reference: NC11/2/1 - N14</p> <p>Fax: +27 (0)21 910 1699 Tel:: +27 (0)21 957 4602 Email: abrahamsn@ra.co.za</p>	<p>21 May 2016 Letter received via email and per registered mail</p>	<p>CSIR: <i>Emailed response on 04 June 2018</i></p> <p>Dear Nicole,</p> <p>Thank you for your email, I hereby acknowledge receipt of the attached. We will inform our Client accordingly. Please note that the requirements from SANRAL will be adhered to as relevant.</p> <p>SANRAL has been registered as an I&AP on this proposed project.</p> <p>Many thanks and best regards, Lizande</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
6	<p>SOUTH AFRICAN HERITAGE RESOURCES AGENCY 111 Harrington Street, Cape Town P.O. Box 4637, Cape town 8001</p> <p><u>Interim Comment:</u> In terms of Section 38(3), 38(8) of the National Heritage Resources Act (Act 25 of 1999)</p> <p><u>Attention:</u> Mulilo Renewable Project Developments (Pty) Ltd</p> <p>Mulilo Renewable Project Developments (Pty) Ltd (hereafter “Mulilo”) is proposing to construct two Wind Energy Facilities (WEFs), namely Phase 2 WEF and supporting electrical infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province. The proposed Kuruman WEF will be connected to the Ferrum substation (located in Kathu) or to the Segame substation (located in Kuruman) and a collector substation, via a 132 kV powerline. This report comprises the Draft Scoping Report (DSR) for the development of the Kuruman Phase 2 WEF. The proposed Kuruman Phase 2 WEF will be developed on the following land portions:</p> <ul style="list-style-type: none"> • Portion 1 of Farm Bramcote 446; and • Remainder of Farm Bramcote 446. <p>In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations (as amended), promulgated in Government Gazette 40772 and Government Notice (GN) R326, R327, R325 and R324 on 7 April 2017, a full Scoping and EIA Process is required for the construction of the proposed Kuruman Phase 2 WEF. Mulilo has appointed the Council for Scientific and Industrial Research (CSIR) to undertake the EIA Process in order to determine the biophysical, social and economic impacts associated with undertaking the proposed activities. Given that energy related projects have been elevated to national strategic importance in terms of the EIA Process, the proposed</p>	<p>Natasha Higgitt (Heritage Officer) and Phillip Hine (Acting Manager: Archaeology, Palaeontology and Meteorites Unit) SAHRA</p> <p>Case ID: 12533</p> <p>Tel: 021 462 4502 Email: nhiggitt@sahra.org.za</p>	<p>04 June 2018 Letter received via registered mail</p>	<p>CSIR:</p> <p>Thank you for the comments provided.</p> <p>Please note that the following suitable studies will be undertaken during the EIA Phase:</p> <ul style="list-style-type: none"> • Heritage Impact Assessment (Archaeology and Cultural Landscape) by Mr Nicholas Wiltshire (Cedar Tower Services (Pty) Ltd t/a CTS Heritage) and Jonathan Kaplan (ACRM); and • Desktop Palaeontological Impact Assessment by Dr John Almond (private consultant) <p>Scoping inputs from these specialists are included in Appendix E of this Final Scoping Report. The full studies will be included in the Draft and the Final EIA Reports.</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
	<p>WEF requires authorisation from the National Department of Environmental Affairs (DEA) as the Competent Authority (CA), acting in consultation with other spheres of government.</p> <p>The Council for Scientific and Industrial Research (CSIR) was appointed by Mulilo Renewable Project Developments to conduct an Environmental Authorisation (EA) Application process for the proposed Kuruman Phase 2 Wind Energy Facility (WEF) near Kuruman, Northern Cape Province. A draft Scoping Report (DSR) has been completed in terms of the National Environmental Management Act, 1998 (NEMA) and the 2017 NEMA Environmental Impact Assessment (EIA) Regulations. The proposed development will include the construction of between 20 – 52 wind turbines with reinforced concrete foundations (20 m x 20 m) and crane platforms (50 m x 50 m), a collector substation, operations and maintenance building with parking area, workshops, water storage, septic tanks and communication tower, construction site office, construction yard and laydown area, access road, internal access roads 5 m wide, underground cables between turbines, stormwater channels and culverts. A transmission line will also be required; however, this will be assessed as part of a separate EA application process.</p> <p>CTS Heritage has been appointed to provide heritage input into the DSR.</p> <p><i>Wiltshire, N. 2018. Kuruman WEF for the Proposed Development of the Phase 2 Kuruman Wind Farm Facility, Kuruman, Northern Cape Province: Scoping Report.</i></p> <p>The heritage specialists noted that the proposed development area is underlain by Precambrian sediments, Ghaap Group and Postmasburg Group formations of low palaeontological sensitivity. However, the Campbell Rand carbonates near Kuruman may contain stromatolites, and the Late Cenozoic superficial sediments may contain fossils, especially near major drainage lines. The specialists also anticipate that</p>			

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	<p>heritage resources such as Early, Middle and Later Stone Age sites, rock art, ruined farm infrastructure and old mines. There may also be a visual impact on the cultural landscape that will require further assessment. The Wonderwerk Cave National Heritage Site is located 25 km south east of the proposed development. It is recommended that a complete Heritage Impact Assessment (HIA) inclusive of an assessment of archaeology and palaeontology be conducted. Additional elements that must be assessed include the impacts to the cultural landscape, built environment resources, graves and burial grounds and mining heritage.</p> <p><u>Interim Comment:</u> The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit notes that an HIA will be conducted as part of the EIA phase of the application. The HIA must comply with section 38(3) of the National Heritage Resources Act, Act 25 of 1999 (NHRA), the SAHRA 2006 Minimum Standards: Archaeological and Palaeontological Component of Impact Assessments and SAHRA 2012 Minimum Standards: Palaeontological Component of Heritage Impact Assessments. The reports must be compiled by the relevant qualified specialists. Further comments will be issued upon receipt of the above. Should you have any further queries, please contact the designated official using the case number quoted above in the case header.</p>			
7	<p><u>Interest in the project:</u> Financial and personal</p> <p><u>Issues or concerns about project:</u> View and Noise</p>	<p>Dana Poolman Farm Spitzberg Alphen, Kuruman P.O. Box 542, Kuruman Tel: 082 920 6610 Email: spitzberg9@gmail.com</p>	<p>26 June 2018 Comment form received via email</p>	<p>CSIR: <i>Emailed response on 26 June 2018</i></p> <p>Dear Dana,</p> <p>Thank you for submitting your comments on the Draft Scoping Report, duly noted.</p> <p>Best regards, Lizande</p>

Table 2: Comments received following the release of the Background Information Document (BID) for the 30-day registration period, together with the response from the EIA team

**Please note that the comments are taken verbatim from the comments provided by I&APs*

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
1	<p>GAMAGARA LOCAL MUNICIPALITY c/o Hendrick van Eck and Frikkie Meyer Road, Kathu 8446 PO Box 1001, Kathu 8446</p> <p><u>Interest in the project:</u></p> <p>Business and Economic Development Activities</p> <p><u>Issues or concerns about project:</u></p> <p>Public participation Land use management Registration to Municipal IDP document</p>	<p>Mr Boikanyo Modise Manager: Local Economic Development</p> <p>Tel: 053 723 6000 Email: modiseb@gamagara.co.za</p>	<p>16 April 2018 Received via email</p>	<p>CSIR: <i>Emailed response on 16 April 2018</i></p> <p>Dear Mr Modise,</p> <p>Thank you very much for the attached information, I truly appreciate it.</p> <p>Kind regards Lizande</p>
2	<p>ESKOM (PTY) LTD / GROUP CAPITAL Megawatt Park, D1Y42, Maxwell Drive, Sunninghill, Sandton P O Box 1091, Johannesburg 2000.</p> <p>Please find attached Eskom requirements for developments near or at Eskom infrastructure. Please send me KMZ files of the affected land portions and proposed power line connector routes.</p> <p>Kind regards, John Geeringh</p>	<p>John Geeringh Senior Consultant: Environmental Management Land Development and Management, Group Capital</p> <p>Tel: 011 516 7233 Cell: 083 632 7663 Fax: 086 661 4064 E-mail: john.geeringh@eskom.co.za</p>	<p>12 March 2018 Received via email</p>	<p>CSIR: <i>Emailed response on 13 March 2018</i></p> <p>Dear John,</p> <p>Thank you for your email and the attached information, much appreciated. As requested, please find attached KMZ files of the affected land portions and the proposed power lines. Please do not hesitate to contact me should you have any queries or require further information.</p> <p>Kind regards, Lizande</p>

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				<p>CSIR: All the requirements from Eskom sent in their email on 12 March 2018 (see Appendix D4) will be adhered to.</p>
3	<p>SOUTH AFRICAN ASTRONOMICAL OBSERVATORY (SAAO)</p> <p>Dear Lizande</p> <p>The following was forwarded to me by my colleague, Chris, at Sutherland, given my responsibilities regarding these kind of issues at the South African Astronomical Observatory (SAAO). The proposed wind energy facilities near Kuruman are too far from the Observatory in Sutherland and to cause any detectable problem to optical observations at SALT and other SAAO telescopes.</p> <p>Regards Ramotholo</p>	<p>Ramotholo Sefako</p> <p>Email: rrs@saa0.ac.za</p>	<p>12 March 2018 Received via email</p>	<p>CSIR: <i>Emailed response on 12 March 2018</i></p> <p>Dear Ramotholo,</p> <p>Thank you very much for your kind and speedy response, your comments are duly noted.</p> <p>Kind regards Lizande</p>
4	<p>GAMAGARA LOCAL MUNICIPALITY c/o Hendrick van Eck and Frikkie Meyer Road, Kathu 8446 PO Box 1001, Kathu 8446</p> <p>No issues or concerns noted.</p>	<p>Pierre Burger Senior Environmental Health Practitioner</p> <p>Tel: 053 723 6000 Email: pierreb@gamagara.co.za</p>	<p>10 April 2018 Received via fax</p>	<p>CSIR: Registered as I&AP on the stakeholder database</p>

NO.	COMMENTS	COMMENTATOR	DATE & FORMAT	RESPONSE
5	No issues or concerns noted.	SJ Coetzee Adjacent landowner / farmer 9 Rooihout Street, Kathu PO Box 2773, Kuruman Tel: 082 823 8865 Email: koot1953@gmail.com	16 April 2018 Received via postage mail	CSIR: Registered as I&AP on the stakeholder database
6	<u>Interest in the project:</u> Business and Personal <u>Issues or concerns about project:</u> Environment and Noise	Dana Poolman Farm Spitzberg Alphen, Kuruman P.O. Box 542, Kuruman Tel: 082 920 6610 Email: spitzberg9@gmail.com	20 March 2018 Received via email	CSIR: <i>Emailed response on 20 March 2018</i> Dear Dana, Thank you, I acknowledge receipt of your email with attachment. Kind regards, Lizande

D8: DEA Correspondence



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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DEA Reference: 14/12/16/3/3/2/1066
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Ms Minnelise Levendal
Council for Scientific and Industrial Research (CSIR)
PO Box 320
Stellenbosch
7599

Telephone Number: (021) 888 2495
Email Address: mlevendal@csir.co.za

PER E-MAIL / MAIL

Dear Ms Levendal

ACCEPTANCE OF THE SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF THE 225MW KURUMAN PHASE 2 WIND ENERGY FACILITY NEAR KURUMAN WITHIN GA-SEGONYANA LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE

The Scoping Report (SR) and Plan of Study for Environmental Impact Assessment (PoSEIA) dated June 2018 and received by this Department on 02 July 2018 refer.

This Department has evaluated the submitted SR and the PoSEIA dated June 2018 and is satisfied that the documents comply with the minimum requirements of the Environmental Impact Assessment (EIA) Regulations, 2014, as amended. The SR is hereby accepted by the Department in terms of Regulation 22 (a) of the EIA Regulations, 2014, as amended.

You may proceed with the Environmental Impact Assessment process in accordance with the tasks contemplated in the PoSEIA and the requirements of the EIA Regulations, 2014, as amended.

All comments and recommendations made by all stakeholders and various Interested and Affected Parties (I&APs) in the draft SR and submitted as part of the final SR must be taken into consideration when preparing an Environmental Impact Assessment report (EIAR) in respect of the proposed development. Please ensure that all mitigation measures and recommendations in the specialist studies are addressed and included in the final EIAR and Environmental Management Programme (EMPr).

Please ensure that comments from all relevant stakeholders are submitted to the Department with the EIAR. This includes but is not limited to the National Department of Environmental Affairs: Directorate Biodiversity and Conservation Management, Northern Cape Department of Nature and Conservation (DENC), the Department of Agriculture, Forestry and Fisheries (DAFF), the provincial Department of Agriculture, the South African Civil Aviation Authority (SACAA), the Department of Transport, the Department of Water and Sanitation (DWS), the South African National Roads Agency Limited (SANRAL), the South African Heritage Resources Agency

(SAHRA), the Endangered Wildlife Trust (EWT), BirdLife SA, Square Kilometre Array (SKA) and the South African Astronomy Observation (SAAO).

You are also required to address all issues raised by Organs of State and I&APs prior to the submission of the EIAr to the Department.

Proof of correspondence with the various stakeholders must be included in the EIAr. Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.

The EAP must, in order to give effect to Regulation 7, give registered I&APs access to, and an opportunity to comment on the report in writing within 30 days before submitting the final EIAr to the Department.

In addition, the following additional information is required for the EIAr:

- i. The EIAr must further provide an assessment of the impacts and mitigation measures for each of the other listed activities applied for.
- ii. The listed activities in the EIAr and the application form must be the same and correct.
- iii. Please note that the Activity description, Activity 1 of GN R. 984 (as amended) must be amended to include the correct indication/ number of turbines for this proposed facility.
- iv. The project description states that the proposed Kuruman Phase 2 WEF will consist of 20 – 52 turbines; Table 1.1 that provides a summary of the project description indicates that the facility will have 52 turbines and the description of the project activity for Activity 1 of GN R. 984 (as amended) indicates that the facility will have a maximum of 47 turbines. Please rectify this inconsistency and provide the correct number of turbines for the proposed development in the draft EIAr.
- v. The EIAr must provide the technical details for the proposed facility in a table format as well as their description and/or dimensions.
- vi. The EIAr must provide the four corner coordinate points for the proposed development site (note that if the site has numerous bend points, at each bend point coordinates must be provided) as well as the start, middle and end point of all linear activities.
- vii. The EIAr must provide the following:
 - Clear indication of the envisioned area for the proposed wind energy facility; i.e. placing of wind turbines and all associated infrastructure should be mapped at an appropriate scale.
 - Clear description of all associated infrastructure. This description must include, but not limited to the following:
 - Power lines;
 - Internal roads infrastructure; and;
 - All supporting onsite infrastructure such as laydown area, guard house and control room etc.
 - All necessary details regarding all possible locations and sizes of the proposed satellite substation and the main substation.
- viii. The EIAr must also include a comments and response report in accordance with Appendix 2 h (iii) of the EIA Regulations, 2014 as amended.
- ix. The EIAr must include the detail inclusive of the Public Participation Process in accordance with Regulation 41 of the EIA Regulations.
- x. Details of the future plans for the site and infrastructure after decommissioning in 20-30 years and the possibility of upgrading the proposed infrastructure to more advanced technologies.
- xi. It is imperative that the relevant authorities are continuously involved throughout the EIAr process as the development property possibly falls within geographically designated areas in terms of GN R. 985, as amended. In addition, a graphical representation of the proposed development within the respective geographical areas must be provided.
- xii. The ecological assessment must take into consideration and use comments from the DENC, SKA and BirdLife SA during the EIAr process.

- xiii. The South African Astronomy Observatory must be thoroughly engaged and their comments included as part of the EIAr.
- xiv. The Bat and Avifaunal specialist assessments must assess and make recommendations for definite measurements for the preferred hub heights and rotor diameter.
- xv. Please note that the 12 months Bird and Bat Monitoring must be conducted in terms of the latest guidelines. It is noted that monitoring was done from May 2017 to May 2018 and as such it is drawn to your attention that the Bird and Bat Monitoring to be submitted as part of the EIAr must always include the updated requirements for 12 months Bird and Bat Monitoring. A copy of the latest guidelines can be found on the BirdLife South Africa's and SABAAP's website.
- xvi. The final EIAr must include information on services required on the site such as sewage, refuse removal, water and electricity. Who will supply these services and has an agreement and confirmation of capacity been obtained? Proof of these agreements must be provided.
- xvii. It is noted that a detailed description of the need and desirability of the proposed development is included in the final SR. Please note that the need and desirability to be submitted with the EIAr must also indicate if the proposed development is needed in the region; if the current proposed location is desirable for the proposed activity compared to other sites, and must take into account cumulative impacts of the proposed development in the area.
- xviii. The EIAr must include a **cumulative impact assessment** of the facility if there are other similar facilities within a 30km radius of the proposed development site. The specialist studies e.g. biodiversity, visual, heritage etc. in the PoSEIA which is incorporated as part of the SR must also assess the facility in terms of potential cumulative impacts. The cumulative impact assessment for all identified and assessed impacts must indicate the following:
 - Identified cumulative impacts must be clearly defined, and where possible the size of the identified impact must be quantified and indicated, i.e. hectares of cumulatively transformed land.
 - Detailed process flow and proof must be provided, to indicate how the specialist's recommendations, mitigation measures and conclusions from the various developments in the area were taken into consideration in the assessment of cumulative impacts and when the conclusion and mitigation measures were drafted for this project.
 - Identified cumulative impacts associated with the proposed development must be rated with the significance rating methodology approved with the acceptance of the scoping report.
 - The cumulative impact significance rating must also inform the need and desirability of the proposed development.
 - A cumulative impact environmental statement on whether the proposed development must proceed.
- xix. Please note that information on location of renewable energy developments can be accessed from <https://www.environment.gov.za/mapsgraphics>.
- xx. A copy of the final site layout map. All available biodiversity information must be used in the finalisation of the layout map. Existing infrastructure must be used as far as possible e.g. roads. The layout map must indicate the following:
 - Wind turbine positions and its associated infrastructure;
 - Permanent laydown area footprint;
 - Internal roads indicating width (construction period width and operation period width) and with numbered sections between the other site elements which they serve (to make commenting on sections possible);
 - Wetlands, drainage lines, rivers, stream and water crossing of roads and cables indicating the type of bridging structures that will be used;
 - The location of sensitive environmental features on site e.g. CBAs, heritage sites, wetlands, drainage lines etc. that will be affected by the facility and its associated infrastructure;
 - Substation(s) and/or transformer(s) sites including their entire footprint;
 - Connection routes (including pylon positions) to the distribution/transmission network;
 - All existing infrastructure on the site, especially roads;

- Buffer areas;
 - Buildings, including accommodation; and
 - All "no-go" areas.
- xxi. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- xxii. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- xxiii. A shapefile of the preferred development layout/footprint must be submitted to this Department. The shapefile must be created using the Hartebeesthoek 94 Datum and the data should be in Decimal Degree Format using the WGS 84 Spheroid. The shapefile must include at a minimum the following extensions i.e. .shp; .shx; .dbf; .prj; and, .xml (Metadata file). If specific symbology was assigned to the file, then the .avl and/or the .lyr file must also be included. Data must be mapped at a scale of 1:10 000 (please specify if an alternative scale was used). The metadata must include a description of the base data used for digitizing. The shapefile must be submitted in a zip file using the EIA application reference number as the title. The shape file must be submitted to:

Postal Address: Department of Environmental Affairs
Private Bag X447
Pretoria
0001

Physical address: Environment House
473 Steve Biko Road
Pretoria

For Attention: Muhammad Essop
Integrated Environmental Authorisations
Strategic Infrastructure Developments

Telephone Number: (012) 399 9406

Email Address: MEssop@environment.gov.za

The Environmental Management Programme (EMPr) to be submitted as part of the EIAR must include the following:

- i. All recommendations and mitigation measures recorded in the EIAR and the specialist studies conducted.
- ii. A good quality final site layout map with clear legend.
- iii. Measures as dictated by the final site layout map and micro-siting.
- iv. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- v. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- vi. An alien invasive management plan to be implemented during construction and operation of the facility. The plan must include mitigation measures to reduce the invasion of alien species and ensure that the continuous monitoring and removal of alien species is undertaken.
- vii. A plant rescue and protection plan which allows for the maximum transplant of conservation important species from areas to be transformed. This plan must be compiled by a vegetation specialist familiar with the site and be implemented prior to commencement of the construction phase.
- viii. A post construction avifaunal monitoring plan to be implemented during the operational phase of the facility. This plan must be compiled by an avifaunal specialist familiar with the site and the plan must adhere to Birdlife's most recent avifaunal guideline.
- ix. A re-vegetation and habitat rehabilitation plan to be implemented during the construction and operation of the facility. Restoration must be undertaken as soon as possible after completion of construction activities to reduce the amount of habitat converted at any one time and to speed up the recovery to natural habitats.

- x. An open space management plan to be implemented during the construction and operation of the facility.
- xi. A traffic management plan for the site access roads to ensure that no hazards would result from the increased truck traffic and that traffic flow would not be adversely impacted. This plan must include measures to minimize impacts on local commuters e.g. limiting construction vehicles travelling on public roadways during the morning and late afternoon commute time and avoid using roads through densely populated built-up areas so as not to disturb existing retail and commercial operations.
- xii. A transportation plan for the transport of components, main assembly cranes and other large pieces of equipment.
- xiii. A storm water management plan to be implemented during the construction and operation of the facility. The plan must ensure compliance with applicable regulations and prevent off-site migration of contaminated storm water or increased soil erosion. The plan must include the construction of appropriate design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.
- xiv. A fire management plan to be implemented during the construction and operation of the facility.
- xv. An erosion management plan for monitoring and rehabilitating erosion events associated with the facility. Appropriate erosion mitigation must form part of this plan to prevent and reduce the risk of any potential erosion.
- xvi. An effective monitoring system to detect any leakage or spillage of all hazardous substances during their transportation, handling, use and storage. This must include precautionary measures to limit the possibility of oil and other toxic liquids from entering the soil or storm water systems.
- xvii. Measures to protect hydrological features such as streams, rivers, pans, wetlands, dams and their catchments, and other environmental sensitive areas from construction impacts including the direct or indirect spillage of pollutants.
- xviii. Measures to protect archaeological sites, artefacts, paleontological fossils or graves from construction and operational impacts.

The EAP must provide detailed motivation if any of the above requirements is not required by the proposed development and not included in the EMPr.

Please ensure that all the relevant Listing Notice activities are applied for, that the Listing Notice activities applied for are specific and that they can be linked to the development activity or infrastructure in the project description.

You are hereby reminded that should the EIAr fail to comply with the requirements of this acceptance letter, the proposed WEF development will be refused in terms of the EIA Regulations 2014, as amended.

The applicant is hereby reminded to comply with the requirements of Regulation 45 with regard to the time period allowed for complying with the requirements of the Regulations, and Regulations 43 and 44 with regard to the allowance of a comment period for interested and affected parties on all reports submitted to the competent authority for decision-making. The reports referred to are listed in Regulation 43(1).

Furthermore, it must be reiterated that, should an application for Environmental Authorisation be subject to the provisions of Chapter II, Section 38 of the National Heritage Resources Act, Act 25 of 1999, then this Department will not be able to make nor issue a decision in terms of your application for Environmental Authorisation pending a letter from the pertinent heritage authority categorically stating that the application fulfils the requirements of the relevant heritage resources authority as described in Chapter II, Section 38(8) of the National Heritage Resources Act, Act 25 of 1999. Comments from SAHRA and/or the provincial department of heritage must be provided in the EIAr.

You are requested to submit two (2) electronic copies (CD/DVD) and one (1) hard copy of the EIAr to the Department. Please note that you are reminded to comply with Regulation 23(1) of the EIA Regulations, 2014 as amended.

Please also find attached information that must be used in the preparation of the EIAr. This will enable the Department to speedily review the EIAr and make a decision on the application.

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, which stipulates that no activity may commence prior to an Environmental Authorisation being granted by the Department.

Yours faithfully



Mr Sabelo Malaza
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs
Letter Signed by: Mr Danie Smit
Designation: Deputy Director: Integrated Environmental Authorisations
Date: 23/07/2018

cc:	Constantin Hatzilambros	Mullio Renewable Project Developments (Pty) Ltd	Email: constantin@mullio.com
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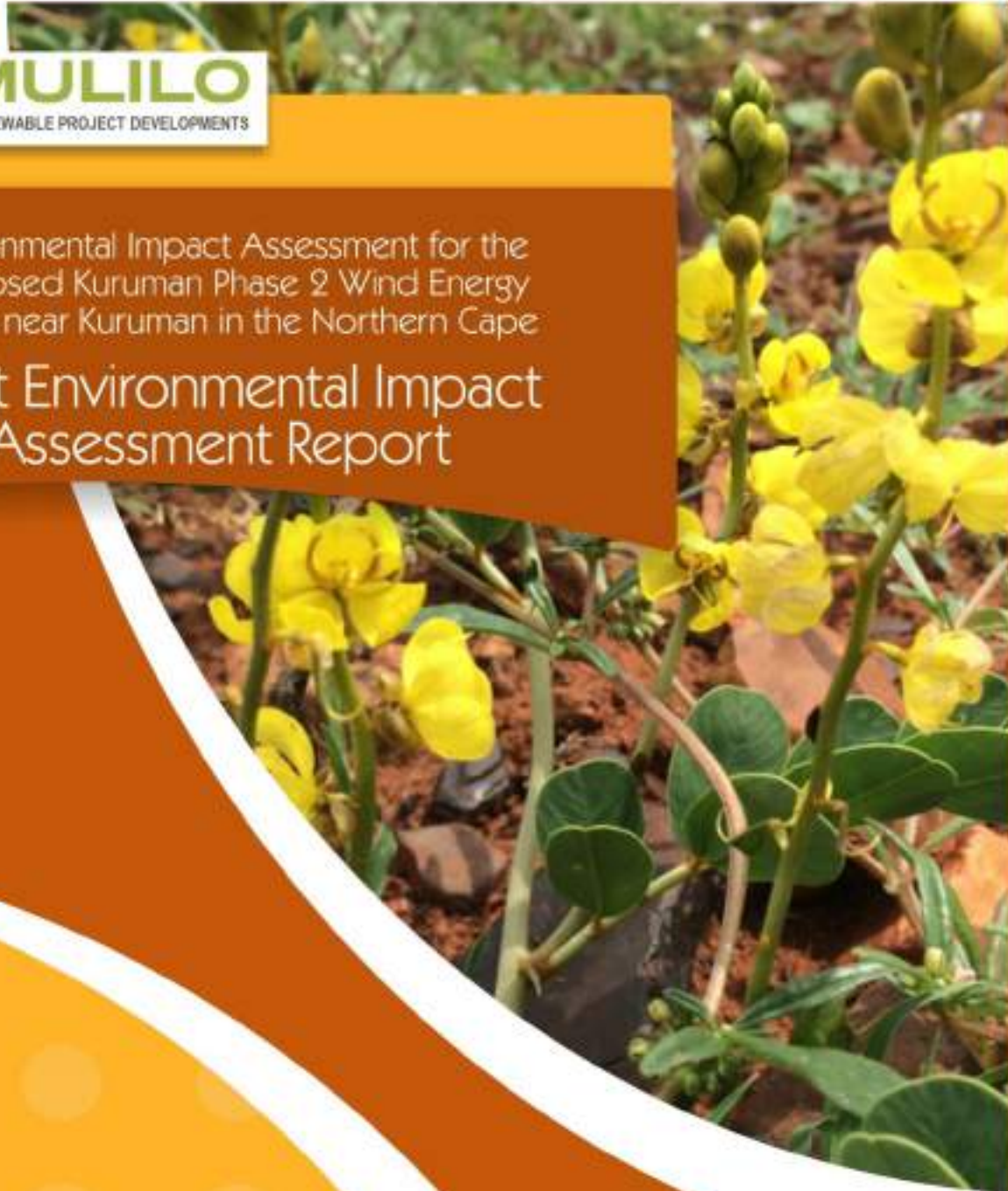
MULILO
RENEWABLE PROJECT DEVELOPMENTS

Environmental Impact Assessment for the
proposed Kuruman Phase 2 Wind Energy
Facility near Kuruman in the Northern Cape

Draft Environmental Impact Assessment Report

APPENDIX E:

Specialist Studies



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STUDY	ORGANISATION	NAME
Terrestrial Ecology (including fauna and flora)	3Foxes Biodiversity Solutions	Simon Todd
Bird Impact Assessment	Chris van Rooyen Consulting	Chris van Rooyen
Bat Impact Assessment	Animalia Consultants (Pty) Ltd	Werner Marais
Freshwater Assessment	EnviroSwift (Pty) Ltd	Natasha van de Haar
Geohydrology Assessment	Geohydrological and Spatial Solutions International (Pty) Ltd	Julian Conrad
Visual Impact Assessment	SiVEST SA (Pty) Ltd	Stephan Jacobs
Heritage Impact Assessment (Archaeology and Cultural Landscape)	Cedar Tower Services (Pty) Ltd	Nicholas Wiltshire
Soils and Agricultural Potential Assessment	Private	Johann Lanz
Socio-Economic Impact Assessment	Urban-Econ Development Economists (Pty) Ltd	Elena Broughton
Noise Impact Assessment	Enviro-Acoustic Research cc	Morné de Jager
Transportation Impact Assessment	JG Afrika (Pty) Ltd	Adrian Johnson



MULILO
RENEWABLE PROJECT DEVELOPMENTS

1

Environmental Impact Assessment for the
proposed Kuruman Phase 2 Wind Energy
Facility near Kuruman in the Northern Cape

Draft Environmental Impact Assessment Report

APPENDIX F:

Environmental
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1 Introduction

Mulilo Renewable Project Developments (Pty) Ltd (hereafter, "Mulilo") is proposing to construct two Wind Energy Facilities (WEFs), namely Kuruman Phase 1 WEF and Kuruman Phase 2 WEF and supporting infrastructure, in the Ga-Segonyana Local Municipality and the John Taolo Gaetsewe District Municipality, 8 km and 37 km south west from Kuruman and from Kathu, respectively, in the Northern Cape Province. The proposed projects are being developed to generate electricity via wind energy which will feed into and supplement the national electricity grid.

The proposed Kuruman Phase 2 WEF will comprise of a maximum of 52 turbines with a hub height and rotor diameter of 80 - 140 m and 100 - 160 m, respectively. The blade length is 50 - 80 m with a turbine capacity between 4.5 and 5.5 MW. The development footprint of the proposed WEF will be approximately 580 ha. The coordinates of the corner points of the project site is detailed in Table 1 below.

Table 1: Co-ordinates of the Corner Points of the project site

Site	Point	Latitude	Longitude
Kuruman WEF	North East	27°35'54.68"S	23°24'28.61"E
	South East	27°39'51.58"S	23°25'17.63"E
	South West	27°40'17.54"S	23°23'32.95"E
	North - West	27°36'37.42"S	23°22'46.55"E

This draft Environmental Management Programme (EMPr) has been prepared for the **Kuruman Phase 2 WEF** as part of the requirements of the 2014 EIA Regulations promulgated under the National Environmental Management Act (NEMA, Act 107 of 1998).

1.1 Environmental Impact Assessment Team

The EIA team involved in preparing this EMPr is listed in Table 2 below.

Table 2: The EIA team.

NAME	ORGANISATION	ROLE/SPECIALIST STUDY
Environmental Management Services (CSIR)		
Paul Lochner	CSIR	Technical Advisor and Quality Assurance (EAPSA) Certified
Minnelise Levendal	CSIR	EAP (<i>Pr. Sci. Nat.</i>)
Surina Laurie	CSIR	EIA Project Manager (<i>Pr. Sci. Nat.</i>)
Specialists		
Simon Todd	3foxes Biodiversity Solutions	Ecology Impact Assessment (Terrestrial Ecology including fauna and flora)
Chris van Rooyen	Chris van Rooyen Consulting	Bird Impact Assessment
Werner Marias	Animalia Consultants (Pty) Ltd	Bat Impact Assessment
Natasha van der Haar	Enviroswift (Pty) Ltd	Freshwater Impact Assessment
Julian Conrad	Geohydrological and Spatial Solutions International (Pty) Ltd	Geohydrological Impact Assessment
Stephan Jacobs	SiVEST SA (Pty) Ltd	Visual Impact Assessment

NAME	ORGANISATION	ROLE/SPECIALIST STUDY
Nicholas Wiltshire	Cedar Tower Services (Pty) Ltd	Heritage Impact Assessment
Dr John Almond	Private, sub-contracted by Cedar Tower Services (Pty) Ltd	Palaeontological Impact Assessment
Johann Lanz	Private	Soils and Agricultural Potential Assessment
Elena Broughton	Urban-Econ Development Economists	Socio-Economic Impact Assessment
Morné de Jager	Enviro-Acoustic Research	Noise Impact Assessment
Adrian Johnson	JG Afrika	Transportation Impact Assessment

1.2 Expertise of the persons who compiled the EMPr

Minnelise Levendal, Pri. Sci. Nat. registered, 117078 (EAP):

Minnelise is a Senior Environmental Assessment Practitioner (EAP) in the EMS Group of the CSIR and holds a Master's degree in Botany from the Stellenbosch University. She also obtained her BSc (Education) and BSc (Honours) degrees at the University of the Western Cape. She has 15 years of experience in Environmental Management (which includes nine years working as an EAP). Before she joined the CSIR she was employed at the Western Cape Department of Environmental Affairs and Development Planning (DEA&DP) where she assessed EIAs, BAs and EMPs. Minnelise is currently managing various EIAs for wind and solar renewable energy projects in South Africa. Minnelise was the CSIR project manager for the 100 MW Ubuntu WEF near Jeffrey's Bay (EA granted in June 2012), as well as the 50 MW Banna Ba Pifhu WEF proposed by WKN Wind current near Humansdorp in the Eastern Cape (EA granted in July 2014). She was the project manager of ten BAs for wind monitoring masts in South Africa as part of the National Wind Atlas Project of the DoE. EAs for all the ten masts were obtained from DEA in 2010. Minnelise was also the Project Leader for seven solar PV facilities near Kenhardt for Mulilo in the Northern Cape in 2016. Minnelise is currently the Project Manager of the Special Needs and Skills Development Programme of DEA which provides *pro bono* environmental assessments (BAs) to applicants with special needs.

Minnelise is supported by the EIA Project Manager Surina Laurie.

Surina Laurie (Pri, Sci. Nat. registered, 400033/15):

Surina has more than 7 years of experience in environmental assessment and management and is a Senior EAP in the EMS group of the CSIR with a Masters degree in Environmental Management from the University of Stellenbosch and a Certificate in Environmental Economics from the University of London. She is a Registered Professional Natural Scientist (Registration Number: 400033/15) with the South African Council for Natural Scientific Professions (SACNASP). Surina has experience in the management and integration of various types of environmental assessments in South Africa for various sectors, including renewable energy, industry and tourism. She has also been part of advisory teams advising on financing, real estate, corporate, construction, environmental and regulatory aspects for various sponsors, developers and lenders during the DOE's first and second bidding windows in 2012 and 2013. Surina has undertaken several Solar Photovoltaic (PV) and Wind Energy Environmental Assessments (i.e. EIAs, BAs, and Amendment and Appeal Processes) in the Northern Cape, Western Cape and Free State.

2 Approach to preparing the EMPr

2.1 Compliance of this EMPr with the NEMA and EIA Regulations

This EMPr satisfies the requirements of Section 24N of the National Environmental Management Act (NEMA) (Act 107 of 1998) as well as Appendix 4 of the 2014 NEMA Environmental Impact Assessment (EIA) Regulations (GN R362). An overview of where these requirements are met in this EMPr is presented in Table 3.

Table 3: Requirements of an EMPr as defined in terms of NEMA (Act 107 of 1998) and Appendix 4 of the 2014 EIA Regulations (GN R362).

Section 24N of the NEMA	Requirements for a EMPr in terms of Section 24N of the NEMA (Act 107 of 1998)	Location in this EMPr
(2) (a)	information on any proposed management, mitigation, protection or remedial measures that will be undertaken to address the environmental impacts that have been identified in a report contemplated in subsection 24(1A), including environmental impacts or objectives in respect of- (i) planning and design; (ii) pre-construction and construction activities; (iii) the operation or undertaking of the activity in question; (iv) the rehabilitation of the environment; and (v) closure, if applicable;	Section 5
(2) (b)	details of- (i) the person who prepared the environmental management programme; and (ii) the expertise of that person to prepare an environmental management programme;	Section 1.2
(2) (c)	a detailed description of the aspects of the activity that are covered by the environmental management programme;	Section 4
(2) (d)	information identifying the persons who will be responsible for the implementation of the measures contemplated in paragraph (a);	Section 3
(2) (e)	information in respect of the mechanisms proposed for monitoring compliance with the environmental management programme and for reporting on the compliance;	Section 5
(2) (f)	as far as is reasonably practicable, measures to rehabilitate the environment affected by the undertaking of any listed activity or specified activity to its natural or predetermined state or to a land use which conforms to the generally accepted principle of sustainable development; and	Section 5 Section 8 Section 9
(2) (g)	a description of the manner in which it intends to- (i) modify, remedy, control or stop any action, activity or process which causes pollution or environmental degradation; (ii) remedy the cause of pollution or degradation and migration of pollutants; and (iii) comply with any prescribed environmental management standards or practices.	Section 5 Section 14 Section 15
(3) (a)	set out time periods within which the measures contemplated in the environmental management programme must be implemented;	Section 5
(3) (b)	contain measures regulating responsibilities for any environmental damage, pollution, pumping and treatment of extraneous water or ecological degradation as a result of prospecting or mining operations or related mining activities which may occur inside and outside the boundaries of the prospecting	N/A

	area or mining area in question; and	
(3) (c)	develop an environmental awareness plan describing the manner in which- (i) the applicant intends to inform his or her employees of any environmental risk which may result from their work; and (ii) risks must be dealt with in order to avoid pollution or the degradation of the environment.	Section 5
Appendix 4 of the EIA Regulations	Requirements for a EMPr in terms of Appendix 4 of the 2014 NEMA EIA Regulations (GN R982)	Location in this EMPr
(1) (a)	Details of - (i) the EAP who prepared the EMPr; and (ii) the expertise of the EAP to prepare an EMPr, including a curriculum vitae;	Section 1.2 Appendix A
(1) (b)	a detailed description of the aspects of the activity that are covered by the EMPr as identified by the project description	Section 4
(1) (c)	a map at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that any areas that should be avoided, including buffers;	Section 4
(1) (d)	a description of the impact management objectives, including management statements, identifying the impacts and risks that need to be avoided, managed and mitigated as identified through the environmental impact assessment process for all phases of the development including- (i) planning and design; (ii) pre-construction activities; (iii) construction activities; (iv) rehabilitation of the environment after construction and where applicable post closure; and (v) where relevant, operation activities;	Section 5
(1) (e)	a description and identification of impact management outcomes required for the aspects contemplated in paragraph (d);	Section 5
(1) (f)	a description of proposed impact management actions, identifying the manner in which the impact management objectives and outcomes contemplated in paragraphs (d) and (e) will be achieved, and must, where applicable, include actions to – (i) avoid, modify, remedy, control or stop any action, activity or process which causes pollution or environmental degradation; (ii) comply with any prescribed environmental management standards or practices; (iii) comply with any applicable provisions of the Act regarding closure, where applicable; and (iv) comply with any provisions of the Act regarding financial provisions for rehabilitation, where applicable;	Section 5
(1) (g)	the method of monitoring the implementation of the impact management actions contemplated in paragraph (f);	Section 5
(1) (h)	the frequency of monitoring the implementation of the impact management actions contemplated in paragraph (f);	Section 5
(1) (i)	an indication of the persons who will be responsible for the implementation of the impact management actions;	Section 3 Section 5
(1) (j)	the time periods within which the impact management actions contemplated in paragraph (f) must be implemented;	Section 5

(1) (k)	the mechanism for monitoring compliance with the impact management actions contemplated in paragraph (f);	Section 5
(1) (l)	a program for reporting on compliance, taking into account the requirements as prescribed by the Regulations;	Section 5
(1) (m)	an environmental awareness plan describing the manner in which- (i) the applicant intends to inform his or her employees of any environmental risk which may result from their work; and (ii) risks must be dealt with in order to avoid pollution or the degradation of the environment; and	Section 5
(1) (n)	any specific information that may be required by the competent authority.	N/A

2.2 Contents of the EMPr

Where applicable, this EMPr addresses the four phases of the project cycle: (1) Project Design phase; (2) Construction phase; (3) Operational phase; and (4) Decommissioning phase.

The draft EMPr follows an approach of identifying an over-arching goal and objectives, accompanied by management actions that are aimed at achieving these objectives. The management actions are presented in a table format in order to show the links between the goal and associated objectives, actions, responsibilities, monitoring requirements and targets. The management plans for the design, construction, operational and decommissioning phases consist of the following components:

- **Impact:** The potential positive or negative impact of the development that needs to be enhanced, mitigated or eliminated;
- **Mitigation/Management action:** The actions needed to achieve the objectives of enhancing, mitigating or eliminating impacts;
- **Monitoring:** The key monitoring actions required to check whether the objectives are being achieved, taking into consideration methodology, frequency and responsibility.

3 Roles and responsibilities

To achieve the goals set out in this EMPr there are responsibilities that need to be defined for the following key roles (Table 4):

- Project Developer;
- Environmental Control Officer (ECO); and
- Lead Contractor.

Table 4: Roles and responsibilities associated with the construction, operation and decommissioning of the proposed development of the supporting infrastructure in line with this EMPr.

Role	Responsibilities
Project Developer	<p>The Project Developer is the ‘owner’ of the project and, as such, has the following responsibilities:</p> <ul style="list-style-type: none"> ➤ Be familiar with the recommendations and mitigation measures of this EMPr; ➤ Ensure that the conditions of the Environmental Authorisation issued in terms of NEMA are fully adhered to; ➤ Ensure that other necessary permits or licenses are obtained and complied with; ➤ Appoint the ECO and the Lead Contractor.
ECO	<p>Responsibilities of the ECO are to</p> <ul style="list-style-type: none"> ➤ Oversee the implementation of the EMPr during the construction and operational phases, monitoring environmental impacts; ➤ Record-keeping and monitoring of compliance with conditions of the Environmental Authorisation; ➤ Ensure compliance to the plans included in the EMPr following approval of the Final EMPr. ➤ The lead contractor and sub-contractors may have their own ECOs, or designate ECO functions to certain personnel.
Lead Contractor	<p>The Contractor and its sub-constructors are responsible for overall execution of the activities envisioned in the construction phase, including implementation and compliance with the recommendations and conditions specified in this EMPr. Furthermore the Contractor’s responsibilities are to:</p> <ul style="list-style-type: none"> ➤ Ensure that all appointed contractors and sub-contractors are aware of this EMPr and their responsibilities in relation to the plan; ➤ Meet on-site with the Project Developer’s ECO prior to the commencement of construction activities to confirm the construction procedure and designated activity zones; ➤ Ensure that each subcontractor employ an ECO (or have a designated ECO function) to monitor and report on the daily activities on-site during the construction period; ➤ Implement the overall construction programme, project delivery and quality control for the construction of the solar project; ➤ Oversee compliance with the Health, Safety and Environmental Responsibilities specific to the project management related to project construction; ➤ Promote total job safety and environmental awareness by employees, contractors and sub-contractors and stress to all employees and contractors and sub-contractors the importance that the project proponent attaches to safety and the environment; ➤ Ensure that safe, environmentally acceptable working methods and practices are implemented and that sufficient plant and equipment is made available properly operated and maintained, to facilitate proper access and enable any

Role	Responsibilities
	<p>operational to be carried out safely;</p> <ul style="list-style-type: none"> ➤ Ensure that all appointed contractors and sub-contractors repair, at their own cost, any environmental damage as a result of a contravention of the specifications contained in the EMPr, to the satisfaction of the Project Developer's ECO. ➤ Implement the Traffic, Transportation and Road Maintenance Management Plan set out in this EMPr (Section 10); ➤ Implement the Storm Water Management Plan set out in this EMPr (Section 11).

4 Project details

The project life-cycle activities can generally be divided into four phases (see below) and can be outlined as follows:

- Pre-construction (Design);
- Construction;
- Operation (including maintenance and repair); and
- Decommissioning.

A description of each phase and the associated activities is provided below.

4.1 Pre-construction (Design) Phase

The project layout, including the placement of each individual turbine and subsequent proposed access roads was finalised in the EIA phase. The project layout was informed by the findings of the specialist studies, which included the identification of sensitive biophysical areas that need to be avoided. Various design input will be undertaken during this phase, which includes the micro-siting of turbines and infrastructure as well as the confirmation on the preferred turbine manufacturer and turbine capacity.

4.2 Construction Phase

The construction phase will take place subsequent to the issuing of an Environmental Authorisation (EA) from the Department of Environmental Affairs (DEA) and once a power purchase agreement (PPA) with a suitable energy off-taker is signed, this could be Government or private. The construction phase for the proposed Kuruman WEF project is expected to extend over 18 months (however the construction period is subject to the actual number of turbines, the final requirements of Eskom and the REIPPPP RfP provisions at that point in time).

The main activities that are proposed to take place during the construction phase will entail the removal of vegetation within the footprint of the infrastructure that will be constructed (including but not limited to the turbines, laydown areas, internal access roads and building structures). The temporary laydown area will then be constructed to enable the storage of construction equipment and machinery and will include the establishment of the construction site camp (including site offices and other temporary facilities for the appointed contractors). The wind turbine foundations will then be constructed at each

turbine location. Each turbine will be supported by a concrete foundation of approximately 400 m², with the aid of a mechanical excavator.

Thereafter, the on-site substation, including the substation building will be constructed. The construction of the substation building will entail construction of the foundations and building structure as well as the installation of electrical infrastructure (such as transformers, conductors, etc.). The construction phase will also involve the transportation of personnel, construction material and equipment to and from the site. Subsequently, the trenches will be excavated at a depth of approximately 5 m, between each wind turbine, for the laying of the cables to facilitate the connection of the wind turbines to the on-site substation.

All efforts will be made to ensure that all construction work will be undertaken in compliance with local, provincial and national legislation, local and international best practice, as well as the EMPr (this document).

4.3 Operational Phase

The following activities will occur during the operational phase:

- Operation of the WEF and generation of electricity to add to the national grid;
- Routine maintenance of the WEF; and
- Unscheduled maintenance of the WEF.

The operational lifespan of the proposed Kuruman WEF is expected to be approximately 20 years. Wind turbines will be operational for this entire period except under circumstances of mechanical breakdown, extreme weather conditions and/or maintenance activities. Wind turbines will be subject to regular maintenance and inspection (i.e. routine servicing) to ensure the continued optimal functioning of the turbine components. It is expected that the WEF will operate throughout the day and night. During the operational phase, most of the WEF project area will continue its current agricultural use. The only development related activities on-site will be routine servicing and maintenance.

4.4 Decommissioning Phase

At the end of the operational phase, the WEF may be decommissioned, or may be repowered i.e. redesigned and refitted so as to operate for a longer period. The main aim of decommissioning is to return the land to its original, pre-construction condition. Should the unlikely need for decommissioning arise (i.e. if the facility becomes outdated or the land needs to be used for other purposes), the decommissioning procedures will be undertaken in line with the EMPr and the site will be rehabilitated and returned to its pre-construction state.

Various components of the proposed Kuruman WEF which are decommissioned will be reused, recycled or disposed of in accordance with the relevant regulatory requirements. All of the components of the wind turbines are considered to be reusable or recyclable. The turbines may also be traded or sold as there is an active second hand market for wind turbines and/or it may be used as scrap metal. The components proposed to form part of the WEF are detailed in Table 5 below.

Table 5: Project details for the proposed supporting infrastructure

Infrastructure	Footprint and dimensions
Location of the site	District Municipality – John Taolo Gaetsewe District Municipality
	Local Municipality - Ga-Segonyana Local Municipality
	Ward number - 11
Farm names and SG 21 Digit Codes	Portion 1 of Farm Bramcote 446 (C0410000000044600001)
	Remainder of Farm Bramcote 446 (C0410000000044000000)
Number of turbines	52 turbines
Turbine Capacity	4.5 – 5.5 MW
Hub Height	80 - 140 m
Rotor Diameter	100 - 160 m
Blade length	50 - 80 m
Project Size	50 - 286 MW
Area occupied by on-site substation	2 ha
Height of substation	5 m
Capacity of on-site substation	132 kV
Area occupied by construction lay down areas (<u>including construction camp</u>)	4 ha (2 construction lay down areas required of 2 ha each)
Internal access roads	50 km of internal road linking a maximum of 52 turbine locations 8 m in width
Concrete batching plant	50 m x 50m (on-site batching)
O&M Building	1 ha
General temporary Hardstand Area (boom erection, storage, and assembly area)	15 ha
Turbines	Reinforced Concrete Foundation – 20 x 20 m (0.04 ha per turbine) Crane Platform/Pad – 50 m x 50 m (0.25 ha)
Site Access	The proposed main access road is located on D3420. This main access road connects to the main access road of Phase 1 on the boundary of the two phases. Turbines could therefore be delivered to the Phase 1 (should Phase 1 be developed) area via the proposed main access road of Phase 2.
Proximity to grid connection	The proposed Kuruman Phase 2 WEF will link to the Ferrum substation (10 km) or to the Moffat substation (50 km).
Fencing	Fencing will be required around the O&M Building and on-site substation and will be a maximum of 5 m high.

4.5 Environmental sensitivities and preferred layout

Based on the specialist studies undertaken and the results of the field studies, all features identified on site are shown in Figure 1. The respective features identified vary in sensitivity to the proposed development. The overall environmental sensitivity map overlain with the preferred layout of the Kuruman Phase 2 WEF is shown in Figure 2. It should be noted that based on the scale at which the layout is presented, some of the proposed turbines may seem to be located within areas that were identified as having a high sensitivity. However, on a smaller scale, all turbines are located outside of high sensitivity areas and only the supporting infrastructure occurs within these high sensitivity areas.



Legend

Environmental Features Avifauna

- Bats**
- Foraging Areas
- Freshwater**
- Drainage lines

- Ridges
- Moffat – Valley 66kV powerline
- Surface water

Terrestrial

- Plateau and ridge tops
- Ridge Slopes

Heritage

- Heritage features
- Fossil Exposures

Figure 1: Environmental features that were identified by the various specialist studies

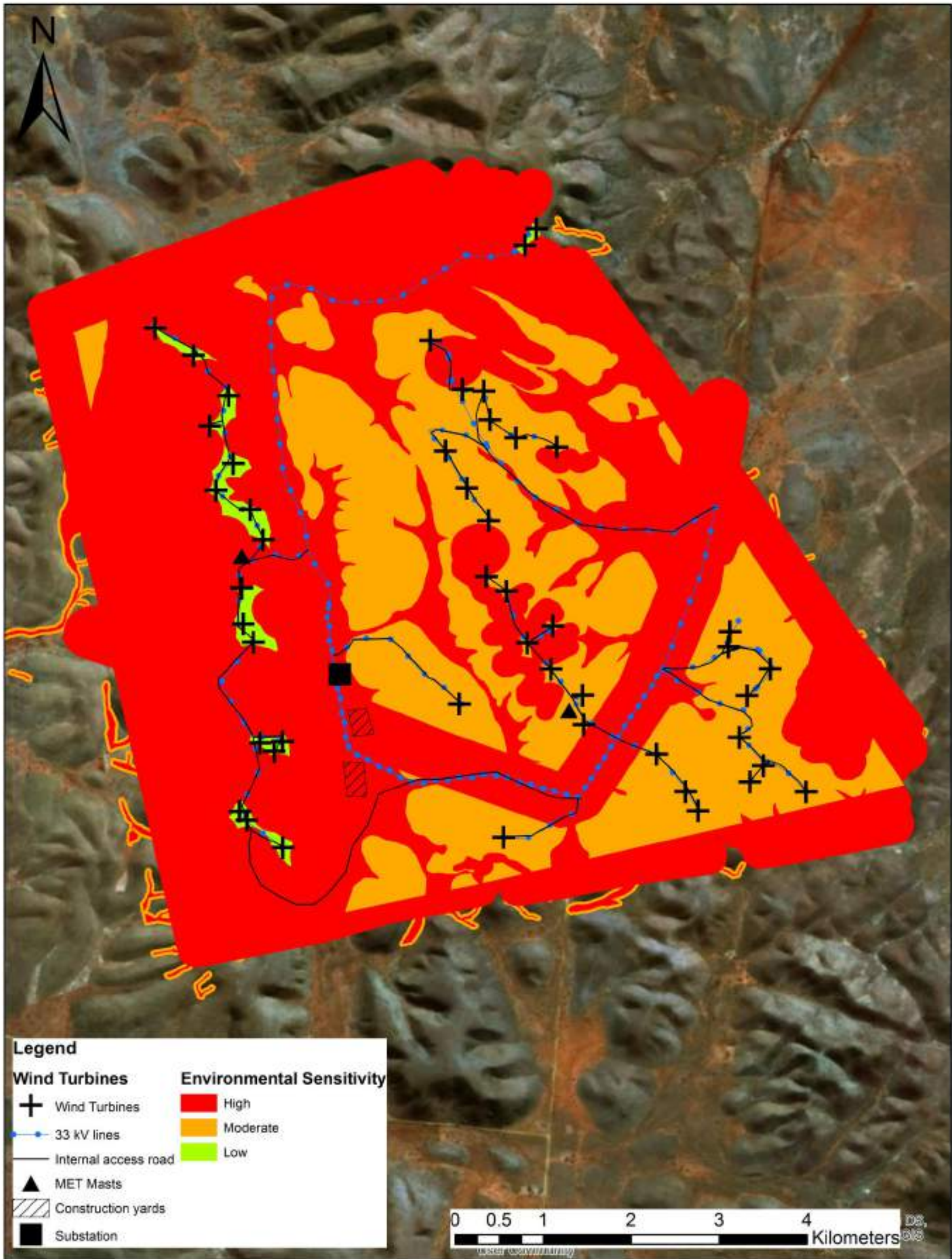


Figure 2: Environmental sensitivity map overlain with the preferred layout of the WEF

5 EMPr for the Kuruman Phase 2 WEF

5.1 Design Phase

Aspect	Objective	Action	Frequency	Responsible Party
5.1.1 General requirements				
General site management to preserve the integrity of the site	Maintain ecological integrity of the site	<ul style="list-style-type: none"> Existing roads and farm tracks should be used where possible. The minimum footprint areas of infrastructure should be used wherever possible, including road widths and lengths. No off-road driving. ECO to hold regular inspections ensure that the EMPr is implemented and enforced. 	Weekly	❖ ECO
5.1.2 Freshwater ecology				
Potential impact on ephemeral drainage lines as a result of the proposed development of the Phase 2 WEF	Avoid or minimize impacts on ephemeral drainage lines.	<ul style="list-style-type: none"> Ensure that the design of the proposed WEF takes the sensitivity mapping of the freshwater specialist into account to avoid and reduce impacts on ephemeral drainage lines. Make use of existing access roads where possible and any turning areas required must be located outside of the buffer zone. Where widening of existing access roads located adjacent to ephemeral drainage lines is required, widening must take place on the opposite side of the existing road to the drainage line only. Where possible, proposed new roads running along the lengths of drainage lines should be relocated to areas outside of the drainage lines and associated buffer zones. The requirements for new road crossing structures such as wearing courses, bridges or culverts should be determined upon consultation with an engineer. Construction yards must be located outside of ephemeral drainage lines and their buffer areas. 	During design cycle and before construction commences	❖ Project developer and appointed freshwater specialist

Aspect	Objective	Action	Frequency	Responsible Party
		<ul style="list-style-type: none"> • Where widening of existing access roads located adjacent to ephemeral drainage lines is required, widening must take place on the opposite side of the existing road to the drainage line only. • Where possible, proposed new roads running along the lengths of drainage lines should be relocated to areas outside of the drainage lines and associated buffer zones. • Make use of existing access roads where possible and any turning areas required must be located outside of the buffer zone. • Limit the number of trees and shrubs removed as far as practically possible. 		
5.1.3 Transportation				
Design of access roads	Minimise transportation impacts	<ul style="list-style-type: none"> • A minimum required road width of 4 meters needs to be kept and all turning radii must conform with the specifications needed for the abnormal load vehicles and haulage vehicles. • It is critical to ensure that the abnormal load vehicles will be able to move safely and without obstruction along the preferred routes. The preferred route should be surveyed to identify problem areas, e.g. intersections with limited turning radii and sections of the road with sharp horizontal curves or steep gradients, that may require modification. • Eskom lines along the road will have to be moved to accommodate the abnormal load vehicles. 	Once-off	❖ Project Developer
5.1.4 Agriculture and soil potential				
Agricultural land	Minimise disruption to agricultural activities and loss of agricultural land.	<ul style="list-style-type: none"> • Implement an effective system of storm water run-off control using bunds and ditches, where it is required - that is at points where water accumulation might occur. The system must effectively collect and safely disseminate any run-off water from all hardened surfaces and it must prevent any potential down slope erosion. 	On-going	❖ Project Developer

Aspect	Objective	Action	Frequency	Responsible Party
5.1.5 Noise				
Noise generation	Minimise noise impacts	<ul style="list-style-type: none"> The potential noise impact for the WEF must again be evaluated should the layout be changed where any wind turbines are located closer than 1,000 m from a confirmed NSD or if the developer decides to use a different wind turbine that has a sound power emission level higher than the Acciona WTG used in this report (sound power emission level exceeding 108.4 dBA re 1 pW). 	On-going	❖ Project Developer
5.1.6 Visual				
Visual impact	Minimise impact on sense of place	<ul style="list-style-type: none"> Turbines should be painted plain white, as this is a less industrial colour, unless another specialist recommends that one (1) or more of the turbine blades be painted an alternative colour in order to reduce an identified impact (for example as part of the Avifauna specialist's recommendations / mitigation measures). It is highly recommended that bright colours should not be permitted and that large, clear or obvious logos preferably not be used or be kept to an absolute minimum. Make use of existing gravel access roads where possible. 	Once-off	❖ Project Developer
5.1.7 Bats				
Management of bat impacts	Minimise impact to bats	<ul style="list-style-type: none"> All turbines in High bat sensitivities or High bat sensitivity buffers, must be moved outside such buffers during turbine layout revisions, before turbine construction commences. This applies to turbine base locations as well as the rotor swept envelope (blade length). Lights at turbine bases (if applicable), must be fitted with low sensitivity motion sensors. 	Once-off and with any future amendments	❖ Project Developer

Aspect	Objective	Action	Frequency	Responsible Party
		<p>Heritage Resources Agency (Ms Natasha Higgit 021 462 4502), or the McGregor Museum (Att Dr David Morris 053 8392707 / 082 2224777). Burials, etc. must not be removed or disturbed until inspected by the archaeologist.</p> <ul style="list-style-type: none"> Should substantial fossil remains be encountered at surface or exposed during construction, the ECO should safeguard these, preferably in situ. They should then alert the South African Heritage Resources Agency as soon as possible (Contact details: SAHRA, 111 Harrington Street, Cape Town. PO Box 4637, Cape Town 8000, South Africa. Phone: +27 (0)21 462 4502. Fax: +27 (0)21 462 4509. Web: www.sahra.org.za). This is to ensure that appropriate action (i.e. recording, sampling or collection of fossils, recording of relevant geological data) can be taken by a professional palaeontologist at the proponent's expense. A procedure for Chance Fossil Finds is included in Appendix B of this EMP. The provisions within the Chance Fossil Finds Protocol must be adhered to. 		
5.2.3 Avifauna				
Displacement of priority species due to disturbance during construction operations	Avoid impact to priority species	<ul style="list-style-type: none"> The ECO must be trained by the avifaunal specialist to identify the potential priority species as well as the signs that indicate possible breeding by these species. The ECO must then, during audits/site visits, make a concerted effort to look out for such breeding activities of Red Data species, and such efforts may include the training of construction staff to identify Red Data species, followed by regular questioning of staff as to the regular whereabouts on site of these species. If any of the Red Data species are confirmed to be breeding (e.g. if a nest site is found), construction activities within 500 m of the breeding site must cease, and an avifaunal 	If a priority species nest is discovered during the construction phase, the ECO must conduct weekly inspections of the nest to monitor the breeding effort, in consultation with the avifaunal specialist.	❖ ECO and Avifaunal specialist

Aspect	Objective	Action	Frequency	Responsible Party
		specialist is to be contacted immediately for further assessment of the situation and instruction on how to proceed		
Displacement of priority species due to habitat transformation	Avoid impact to priority species	<ul style="list-style-type: none"> Any clearing of stands of alien trees on site should be approved first by the avifaunal specialist. Prior to construction, an avifaunal specialist should conduct a site walkthrough, covering the final road as well as the final turbine positions, to identify any nests/breeding/roosting activity of priority species. The results of which may inform the final construction schedule in close proximity to that specific area, including abbreviating construction time, scheduling activities around avian breeding and/or movement schedules, and lowering levels of associated noise. Regular inspections must be conducted by the ECO to ensure that rock piles are removed from site or covered with topsoil to prevent them from becoming habitat for Rock Hyrax (Dassie) <i>Procavia capensis</i>. 	Prior to construction	<ul style="list-style-type: none"> ❖ ECO ❖ Avifaunal specialist ❖ Rehabilitation specialist
5.2.4 Geohydrology				
Groundwater abstraction	Utilising groundwater in a sustainable way	<ul style="list-style-type: none"> The production boreholes that are put into use should be yield tested prior to use (according to SANS10299) so that the correct pump sizes and installation depths can be determined. The planned production boreholes should also be sampled and chemically and microbiologically analysed by a SANAS accredited laboratory. Samples should also be analysed for asbestos content. Once the boreholes are in use they should be equipped with: <ul style="list-style-type: none"> Observation pipes - so that the water levels can be measured (either manually or by data loggers). Flow meters – to assess how much water is 	Prior to borehole abstraction	<ul style="list-style-type: none"> ❖ Contractor

Aspect	Objective	Action	Frequency	Responsible Party
		<p>used and thereby all authorisations in place for use of the water are adhered to.</p> <ul style="list-style-type: none"> ○ Sampling tap – to enable annual sampling to ensure the groundwater is safe for continued use – especially if it to be used as drinking water at the security buildings. 		
5.2.5 Freshwater ecology				
Disturbance of drainage lines	Avoid or minimize disturbance of ephemeral drainage lines	<ul style="list-style-type: none"> • If possible, crossing areas should be developed at 90 degree angles to ephemeral drainage lines in order to limit the area of disturbance. • A maximum construction working servitude of 3m should be allowed to either side of ephemeral drainage line crossing areas. • Demarcate each construction footprint located within each drainage line, clearly. All material used for demarcation purposes should be removed after construction has been completed. • Strictly prohibit any construction related activity inside the demarcated areas. • Limit the movement of construction personnel and construction vehicles through ephemeral drainage lines during the construction of road and underground distribution line crossings to that which is absolutely necessary. • The requirements for new road crossing structures such as wearing courses, bridges or culverts should be determined upon consultation with an engineer; • Prevent excessive disturbance of the bed and banks during culvert/bridge development (if used). • Minimise the extent of infilling within the drainage lines as far as possible. • Prohibit the dumping of excavated material within the channel. Spoil material must be appropriately disposed 	On a weekly basis (at least) during the construction phase.	❖ ECO

Aspect	Objective	Action	Frequency	Responsible Party
		<p>of at a registered waste disposal facility.</p> <ul style="list-style-type: none"> • Store topsoil and vegetation removed from the construction footprint at designated stockpile areas for use in rehabilitation activities. Designated stockpile areas must be located outside of the buffer areas of ephemeral drainage lines, preferably within already disturbed areas. Vegetation should be cut rather than uprooted in order to make way for stockpile areas. This will prevent further disturbance of soils; • Stockpile topsoil and subsoil removed during construction separately for future rehabilitation. • Inspect the crossings and take measures to address unforeseen disturbances to the ephemeral drainage lines. • Trenches traversing ephemeral drainage lines must be dug by hand in order to avoid any unnecessary disturbance and compaction of soils. • Topsoil and subsoil removed during excavation of trenches must be stockpiled separately at designated stockpile areas (see above) for future rehabilitation activities. • Replace soil in the correct order e.g. subsoil below and topsoil above, as soon as possible after distribution lines have been placed. • Compact subsoil and spread the topsoil as evenly as possible over the subsoil. The creation of permanent depressions or mounds above distribution lines must be avoided. • Revegetate disturbed areas above distribution lines with vegetation assemblages reflecting the general species composition of the area as soon as possible after the application of topsoil. A botanical specialist should advise on appropriate species to be utilized during revegetation. 		

Aspect	Objective	Action	Frequency	Responsible Party
		<ul style="list-style-type: none"> • Monitor the site in order to determine whether any additional alien vegetation control measures will be required. 	Twice a year for three years	
Alteration of flow patterns	Prevent the alteration of flow patterns through ephemeral drainage lines	<ul style="list-style-type: none"> • Strictly prohibit the excavation of a new channel or drainage canals for the diversion of water away from the construction area. • Utilise sandbags in order to divert surface water from the construction footprint. • Sandbags utilised for the diversion of surface water must be in good condition so as to avoid the bursting of the bags and sedimentation of downstream areas. • Care must be taken so as to avoid the erosion of the ephemeral drainage line banks due to the diversion of water. • Once construction of the road crossing is complete the diversion must be removed and the ephemeral drainage line must follow its natural course. Any disturbance to the ephemeral drainage lines bed and banks as a result of the diversion must be immediately rehabilitated. • Prohibit any vehicle or activity outside of the demarcated construction footprint area; • Minimise the duration of construction activities within the ephemeral drainage lines as far as possible; • Limit the footprint of construction activities required as far as practically possible; • Strategically divert stormwater away from the construction footprint area. Stormwater must not be discharged into ephemeral drainage lines and their associated buffer areas. Stormwater should rather be discharged as diffuse flow at multiple discharge points into well vegetated areas outside of the buffer, and 	On-going	❖ ECO

Aspect	Objective	Action	Frequency	Responsible Party
		<p>energy dissipaters (such as areas of rock riprap grassed with indigenous vegetation or similar structures) must be constructed where stormwater is released in order to reduce the runoff velocity and therefore erosion;</p> <ul style="list-style-type: none"> • Install many small, shallow mitre type drains, cut off drains or berms at regular intervals along access roads into ephemeral drainage lines. Drains should be protected from erosion with the use of riprap grassed with indigenous vegetation or similar structures. These drains/berms will direct surface water off the access roads and will prevent the concentration of flows and the erosion of the road surface and the ephemeral drainage lines • Implement erosion control measures where required (e.g. covering steep/unstable/erosion prone areas with geotextiles; stabilising areas susceptible to erosion with sandbags; covering areas prone to erosion with brush packing, straw bales, mulch; diverting stormwater away from areas susceptible to erosion etc). This is of particular importance where roads and crossings are located on steep hillsides which are prone to erosion; and • The bed and the banks of the ephemeral drainage lines must be rehabilitated to as close to their original condition as possible. Ensure that the beds of the features are restored to their natural base level in order to prevent erosion or upstream ponding (i.e. the base of roads/culverts must tie in with the natural base level of the ephemeral drainage lines). • The ECO must check ephemeral drainage lines for erosion damage after every heavy rainfall event. Should erosion or sedimentation be noted immediate corrective measures must be undertaken. Rehabilitation measures may include filling of erosion gullies and rills and the 		

Aspect	Objective	Action	Frequency	Responsible Party
		stabilization of gullies with silt fences. Care must be taken to prevent additional disturbance to the ephemeral drainage lines during the implementation of these measures. Additional erosion control measures must then be applied in order to avoid any further disturbance. Erosion measures will need to be adapted according to each concern.		
Impairment of water quality	Prevent the impairment of water quality within ephemeral drainage lines	<ul style="list-style-type: none"> • Avoid the use of infill material or construction material with pollution / leaching potential when constructing or widening roads across drainage lines. • Dispose of concrete and cement-related mortars in an environmental sensitive manner (can be toxic to aquatic life). Washout should not be discharged into drainage lines. A washout area should be designated at least 30m from any buffer zone, and wash water should be treated on-site. • Prohibit the mixing of concrete on exposed soils. Concrete must be mixed on an impermeable surface in an area of low environmental sensitivity identified by the ECO outside of the buffer area. • Construct temporary bunds around areas within drainage lines where cement is to be cast in-situ. • Develop a construction method statement which indicates how the contractor will minimise the passage of contaminants such as fuel and cement into the ephemeral drainage lines at crossings and ensure it is signed off by the ECO. 	On-going	❖ ECO
5.2.6 Agriculture and soil potential				
Agricultural land	Minimise disruption to agricultural activities and loss of agricultural land.	<ul style="list-style-type: none"> • Maintain where possible all vegetation cover and facilitate re-vegetation of denuded areas throughout the site, to stabilize the soil against erosion. • If an activity will mechanically disturb the soil below surface in any way, then any available topsoil should 	On-going	❖ ECO

Aspect	Objective	Action	Frequency	Responsible Party
		<p>first be stripped from the entire surface to be disturbed and stockpiled for re-spreading during rehabilitation. Topsoil stockpiles must be conserved against losses through erosion by establishing vegetation cover on them. During rehabilitation, the stockpiled topsoil must be evenly spread over the entire disturbed surface. Any subsurface spoils from excavations must be disposed of where they will not bury the topsoil of agricultural land.</p> <ul style="list-style-type: none"> • Restrict vehicle access to approved roads and areas only. • Control dust generation during construction activities by implementing standard construction site dust control measures of damping down with water where dust generation occurs. • Undertake a periodic site inspection to verify and inspect the effectiveness and integrity of the storm water run-off control system and to specifically record the occurrence of any erosion on site or downstream. Corrective action must be implemented to the run-off control system in the event of any erosion occurring. • Undertake a periodic site inspection (monthly during construction to check for vehicle tracks beyond the approved vehicle areas. 	<p>Monthly</p> <p>Monthly</p>	
5.2.7 Visual Resources				
Visual impact	Minimise impact to sense of place	<ul style="list-style-type: none"> • Carefully plan to minimise the construction period and avoid construction delays. • Minimise vegetation clearing and rehabilitate cleared areas as soon as possible. • Make use of existing gravel access roads where possible. • Unless there are water shortages, ensure that dust suppression techniques are implemented on all access roads. • Maintain a neat construction site 	On-going	❖ Lead Contractor

Aspect	Objective	Action	Frequency	Responsible Party
5.2.8 Noise				
Noise generation	Minimise noise impacts	<ul style="list-style-type: none"> • Ensure that equipment is well maintained and fitted with the correct and appropriate noise abatement measures if available. Engine bay covers over heavy equipment could be pre-fitted with sound absorbing material. • Heavy equipment that fully encloses the engine bay should be considered, ensuring that the seam gap between the hood and vehicle body is minimised 	On-going	❖ ECO
5.2.9 Socio-economic				
Socio-economic upliftment	Enhancement of socio-economic benefits to the community	<ul style="list-style-type: none"> • Run a supplier day in Kuruman and identify prospective companies to engage with. • Keep record of companies and businesses supplying goods and services. • Calculate split percentage of local and national / international companies. • Skills desk set up in the Kuruman • Keep record of employee details including addresses as part of HR administration processes • Calculate split percentage of local and migrant labour. • Create a skills requirement for the construction phase. • Identify potential candidates and their gaps in skills required. • Develop necessary training programmes. • Engage in training. • Assess quality of work of trained individuals before and after training. • Ongoing consultation with key government officials to inform trends in service delivery. • Track service delivery backlog figures bi-annually to determine the growth or decline of backlogs. 	On-going	❖ Project Developer

Aspect	Objective	Action	Frequency	Responsible Party
		<ul style="list-style-type: none"> • Devise an awareness campaigns aimed at educating workers on the dangers of substance abuse will be required. • Regularly conduct campaigns and keep track of attendance by workers. • Review the effectiveness of the campaigns by undertaking independent evaluations. • Set up a local safety forum. • Devise a schedule for forum meetings and appoint a administrator. • Keep attendance register, issues raised, and issues resolved. • Employ health and air quality specialists to undertake a health risks assessment. • Compile a health and safety plan for the project site and implement monitoring programme as outlined within the plan. 		
5.2.10 Transportation				
Maintenance of access roads	Minimise transportation impacts	<ul style="list-style-type: none"> • Gravel sections of the haulage routes must remain in good condition and will hence need to be maintained during the additional loading of the construction phase and then reinstated after construction is completed. 	On-going	❖ Haulage company and Contractor
5.2.11 Bats				
Management of bat impacts	Minimise impact to bats	<ul style="list-style-type: none"> • The functionality of the motion sensors on such lights must be tested regularly, and any lights at turbine bases that remains switched on must be reported by personnel that are on site during the night. 	On-going	❖ Project Developer

5.3 Operational phase

Aspect	Objective	Action	Frequency	Responsible Party
5.3.1 General requirements				
Turbine cleaning	Ensure that cleaning substances and paints used are environmentally friendly	<ul style="list-style-type: none"> Check the Material Safety Data Sheets of cleaning substances and paints used to clean and/or paint turbines to ensure that they are environmentally friendly. Should other more suitable products not be available, then the run-off during cleaning/painting must be contained and waste disposed of at a licenced hazardous landfill site. 	Annually	❖ Project Developer
5.3.2 Avifauna				
Priority species mortality due to collisions with the turbines	Avoid collisions of priority species with turbines	<ul style="list-style-type: none"> Mortality thresholds should be determined by the avifaunal specialist in consultation with BirdLife SA, for priority species recorded during the pre-construction monitoring, prior to the wind farm becoming operational. As soon as the turbines become operational (i.e. when blades begin spinning, regardless of grid connection) , operational monitoring should be implemented under the guidance of an avifaunal specialist to assess collision rates, in accordance with the latest version of the Best practice guidelines for avian monitoring and impact mitigation at proposed wind energy development sites in southern Africa. If collision rates indicate mortality exceeding threshold levels of priority species, curtailment must be implemented during high risk periods. These periods, and the number of turbines to be curtailed, will be determined by the avifaunal specialist in consultation with the wind farm management. 	To be determined	❖ Project Developer, ECO, and avifaunal specialist (in consultation with BirdLife SA)
5.3.3 Bats				
Management of bat	Minimise impact to bats	<ul style="list-style-type: none"> The functionality of the motion sensors on such lights must 	On-going	❖ Project

Aspect	Objective	Action	Frequency	Responsible Party
impacts		<p>be tested regularly, and any lights at turbine bases that remains switched on must be reported by personnel that are on site during the night.</p> <ul style="list-style-type: none"> • Curtailment or blade feathering must be undertaken (Ninety-degree feathering of blades below manufacturer's cut-in speed so it is exactly parallel to the wind direction as to minimize free-wheeling blade rotation as much as possible without locking the blades). The regime must be programmed into the SCADA/operational system of the turbines. This must commence on the commercial operational date. The specialist conducting the bat operational mortality study must be made aware of the regime. 	<p>From the start of operation i.e. when blades begin spinning, regardless of grid connection, from sunset until sunrise every night for the months of September, December, January and February</p>	Developer
5.3.4 Noise				
Noise generation	Minimise noise impacts	<ul style="list-style-type: none"> • The developer must investigate any reasonable and valid noise complaint if registered by a receptor staying within 2,000 m from the location where construction activities are taking place or from an operational wind turbine. • The developer must ensure that no Noise Sensitive Development is subjected to total noise levels exceeding 45 dBA (at night) due to the development of the wind energy facility and the operation of the WTG. • The potential noise impact for the WEF must again be evaluated should the layout be changed where any wind turbines are located closer than 1,000 m from a confirmed NSD or if the developer decides to use a different wind turbine that has a sound power emission level higher than the Acciona WTG used in this report (sound power emission level exceeding 108.4 dBA re 1 pW). 	On-going	❖ Project Developer
5.3.5 Agriculture and soil potential				
Agricultural land	Minimise disruption to	<ul style="list-style-type: none"> • Undertake a periodic site inspection to verify and inspect 	Every six months	❖ ECO

Aspect	Objective	Action	Frequency	Responsible Party
	agricultural activities and loss of agricultural land.	the effectiveness and integrity of the storm water run-off control system and to specifically record the occurrence of any erosion on site or downstream. Corrective action must be implemented to the run-off control system in the event of any erosion occurring.		
5.3.6 Visual Resources				
Visual impact	Minimise impact to sense of place	<ul style="list-style-type: none"> • Turbines should be repaired promptly, as they are considered more visually appealing when the blades are rotating (or at work) 	On-going	❖ Project Developer
5.3.7 Socio-economic				
Socio-economic upliftment	Enhancement of socio-economic benefits to the community	<ul style="list-style-type: none"> • Run a supplier day in Kuruman and identify prospective companies to engage with • Keep record of companies and businesses supplying goods and services. • Calculate split percentage of local and national/international companies. • Create a skills requirement for the operational phase. • Identify potential candidates and their gaps in skills required. • Develop necessary training programmes. • Engage in training. • Assess quality of work of trained individuals before and after training. • Implement the health and safety plan. 	On-going	❖ Project Developer
5.3.8 Freshwater				

Aspect	Objective	Action	Frequency	Responsible Party
Degradation of drainage lines	Avoid or minimize degradation of ephemeral drainage lines.	<ul style="list-style-type: none"> • Eradicate alien and weed vegetation at each crossing as well as any areas accidentally disturbed: <ul style="list-style-type: none"> ○ Remove alien species manually, by hand as far as possible. The use of herbicides should be avoided. Should the use of herbicides be required, only herbicides which have been certified safe for use in aquatic environments by an independent testing authority may be considered; ○ Dispose of removed alien plant material at a registered waste disposal site or burn on a bunded surface where no stormwater runoff is expected; ○ Remove vegetation before seed is set and released; and ○ Cover removed alien plant material properly when transported, to prevent it from being blown from vehicles. • Crossings should be inspected twice a year as well as after heavy rainfall events for the duration of the operational phase in order to determine whether any additional erosion control measures are required. Should erosion or sedimentation be noted immediate corrective measures must be undertaken. Rehabilitation measures may include filling of erosion gullies and rills and the stabilization of gullies with silt fences. Care must be taken to prevent additional disturbance to the ephemeral drainage lines during the implementation of these measures. Additional erosion control measures must then be applied in order to avoid any further disturbance. Erosion measures will need to be adapted according to each concern. 	<p>Bi-monthly during the operational phase (for alien vegetation).</p> <p>Twice a year as well as after heavy rainfall events during the operational phase (for erosion and sedimentation).</p>	<p>❖ ECO</p>

Aspect	Objective	Action	Frequency	Responsible Party
Alteration of the natural hydrological regime	Prevent the alteration of the natural hydrological regime of ephemeral drainage lines.	<ul style="list-style-type: none"> Stormwater from the hardened road surfaces traversing the ephemeral drainage lines must be directed to the outer edges of the roads and must be passed through filter strips/energy dissipaters (e.g. areas of rock riprap grassed with indigenous vegetation) before being released into the ephemeral drainage lines. Inspect the crossings to determine whether there is a build-up of debris and sediment. Any debris noted must be removed. 	Twice a year as well as after heavy rainfall events during the operational phase.	❖ ECO
5.3.9 Visual				
Impact on sense of place	Minimise visual impact	<ul style="list-style-type: none"> Light fittings for security at night should reflect the light toward the ground (except for aviation lighting) and prevent light spill. The operations and maintenance buildings should not be illuminated at night, if possible. If required, turbines should be replaced with the same model, or one of equal height and scale. Repeating elements of the same height, scale and form can result in unity and lessen the visual impact that would typically be experienced in a chaotic landscapes made up of diverse colours, textures and patterns. 	On-going	❖ Project Developer

5.4 Decommissioning phase

Aspect	Objective	Action	Frequency	Responsible Party
5.4.1 Avifauna				
Displacement of priority species due to disturbance	Managing displacement of priority species	<ul style="list-style-type: none"> Following decommissioning, rehabilitation of all areas disturbed must be undertaken and to this end a habitat restoration plan is to be developed by a rehabilitation specialist. 	Decommissioning	❖ ECO and Rehabilitation specialist
5.4.2 Freshwater				
Degradation of drainage lines	Avoid or minimize degradation of ephemeral drainage lines	<ul style="list-style-type: none"> Clearly demarcate each decommissioning footprint within a drainage line or buffer zone. All material used for demarcation purposes should be removed after decommissioning has been completed. Allow only essential activities within the demarcated areas. Remove all foreign material from each drainage line or buffer zone before moving to the next area. Undertake rehabilitation concurrently with decommissioning activities, as far as practically possible. Rehabilitate all areas disturbed during decommissioning activities. A rehabilitation plan must be developed including rehabilitation measures such as: <ul style="list-style-type: none"> Reshape and reprofile the banks of drainage lines to either side of each crossing so that they tie in with the surrounding channel banks both longitudinally and perpendicularly (height, slope and structure); Rip and loosen compacted soils of the banks of the drainage lines to a depth of 100mm in order to aid in the establishment of vegetation; Redistribute stockpiled topsoil across the banks; Prevent erosion of the banks by covering and stabilizing any steep or unstable reshaped 	On-going	❖ ECO

Aspect	Objective	Action	Frequency	Responsible Party
		<p>channel banks with a geotextile such as Geojute or BioJute, or with the use of sandbags or silt fences at the break in slope;</p> <ul style="list-style-type: none"> ○ Revegetate disturbed areas with vegetation assemblages reflecting the general species composition of the area as soon as possible after the application of topsoil and stabilizing of soils; and ○ Strictly prohibit the use of alien vegetation during rehabilitation activities. <ul style="list-style-type: none"> ● Eradicate alien and weed vegetation within the drainage lines as well as within any additionally disturbed areas. Follow-up clearing must be done until indigenous vegetation returns to the site: <ul style="list-style-type: none"> ○ Remove alien species manually, by hand as far as possible. The use of herbicides should be avoided. Should the use of herbicides be required, only herbicides which have been certified safe for use in aquatic environments by an independent testing authority may be considered; ○ Dispose of removed alien plant material at a registered waste disposal site or burn on a bunded surface where no stormwater runoff is expected; ○ Remove vegetation before seed is set and released; and ○ Cover removed alien plant material properly when transported, to prevent it from being blown from vehicles. ● The contractor/EO must check each area where decommissioning has taken place within an ephemeral drainage line or associated buffer zone for alien vegetation proliferation and erosion damage once a year and after 		

Aspect	Objective	Action	Frequency	Responsible Party
		<p>every heavy rainfall event, until an indigenous vegetation cover of at least 50% has been reached within disturbed areas. Any alien species noted must be removed immediately by hand. Should erosion or sedimentation be noted immediate corrective measures must be undertaken. Rehabilitation measures may include filling of erosion gullies and rills and the stabilization of gullies with silt fences. Care must be taken to prevent additional disturbance to the ephemeral drainage lines during the implementation of these measures. Additional erosion control measures must then be applied in order to avoid any further disturbance. Erosion measures will need to be adapted according to each concern.</p>		
<p>Impairment of water quality</p>	<p>Prevent the impairment of water quality within ephemeral drainage lines</p>	<ul style="list-style-type: none"> • Minimise the area of disturbance and the amount of earthworks; • Decommissioning activities should be undertaken during the dry season, However, if this is not possible the following mitigation measures are recommended: <ul style="list-style-type: none"> ○ Divert stormwater runoff from disturbed areas into sediment trapping devices. Ensure stormwater is not channelled directly into a drainage line. ○ Construct silt fences and earthen dikes / diversions at areas where sheet flow is expected, to retain and divert sediment-laden runoff. ○ Construct silt fences / traps in areas prone to erosion, to retain sediment-laden runoff. • Use excavators instead of bulldozers where required to remove construction material from drainage lines; consolidate the entry and exit points to reduce scouring; • Engineer disturbed areas to coincide as close as possible to original contours. Ensure that excavated vegetation and soil mounds are not left unattended (recreate original 	<p>On-going</p>	<p>❖ ECO</p>

Aspect	Objective	Action	Frequency	Responsible Party
		contours).		
5.4.3 Socio-economic				
Socio-economic upliftment	Procure goods and services, as far as practically possible, from the local municipality	<ul style="list-style-type: none"> • Run a supplier day in Kuruman and identify prospective companies to engage with. • Keep record of companies and businesses supplying goods and services. • Calculate split percentage of local and national/international companies. 	On-going	❖ Project Developer

6 Alien Invasive Management Plan

OBJECTIVE: Avoid the establishment and spread of alien invasive species during all phases of the development

- Remove alien species manually, by hand as far as possible. The use of herbicides should be avoided. Should the use of herbicides be required, only herbicides which have been certified safe for use in aquatic environments by an independent testing authority may be considered.
- Dispose of removed alien plant material at a registered waste disposal site or burn on a bunded surface where no stormwater runoff is expected.
- Remove vegetation before seed is set and released.
- Cover removed alien plant material properly when transported, to prevent it from being blown from vehicles.
- Removal of the alien and weed species encountered on the property must take place in order to comply with existing legislation (amendments to the regulations under the Conservation of Agricultural Resources Act, 1983 and Section 28 of the National Environmental Management Act, 1998). Removal of species should take place throughout the construction, operational, closure/decommissioning and rehabilitation/ maintenance phases.
- Regular monitoring for alien plants within the development footprint as well as adjacent areas which receive runoff from the facility as there are also likely to be prone to invasion problems.

7 Plant Rescue and Protection Plan

OBJECTIVE: Avoid and mitigate potential impacts to listed and protected plant species and their habitats

- A pre-construction walk-through by a botanist of the development footprint must be undertaken to further refine the layout to reduce impacts on sensitive habitats and protected species through micro-siting of the turbines and access roads.
- Removal of vegetation must be followed closely by rehabilitation by specialists qualified in this vegetation type's remediation.
- Prevent and manage the establishment of alien vegetation (as per Alien Invasive Management Plan, Section 6 of this EMPr).
- Minimise removal of vegetation during construction and operation to reduce the risk of excessive open areas occurring.
- All disturbed sites must be rehabilitated.

8 Re-vegetation and Habitat Rehabilitation Plan

OBJECTIVE: Re-vegetate open areas and rehabilitate disturbed areas

- Maintain where possible all vegetation cover and facilitate re-vegetation of denuded areas throughout the site, to stabilize the soil against erosion.
- Store topsoil and vegetation removed from the construction footprint at designated stockpile areas for use in rehabilitation activities. Designated stockpile areas must be located outside of the buffer areas of ephemeral drainage lines, preferably within already disturbed areas. Vegetation should be cut rather than uprooted in order to make way for stockpile areas. This will prevent further disturbance of soils.

- Reshape and reprofile the banks of the drainage line to either side of each crossing so that they tie in with the surrounding channel banks both longitudinally and perpendicularly (height, slope and structure).
- Rip and loosen compacted soils associated with the bank to a depth of 100mm in order to aid in the establishment of vegetation.
- Redistribute stockpiled topsoil across the banks.
- Prevent erosion of the channel banks by covering and stabilizing any steep or unstable reshaped channel banks with a geotextile such as Geojute or BioJute, or with the use of sandbags or silt fences at the break in slope.
- Revegetate disturbed areas with vegetation assemblages reflecting the general species composition of the area as soon as possible after the application of topsoil and stabilizing of soils. A botanical specialist should advise on appropriate species to be utilized during revegetation.
- Strictly prohibit the use of alien vegetation during rehabilitation activities.
- The bed and the banks of the ephemeral drainage lines must be rehabilitated to as close to their original condition as possible. Ensure that the beds of the features are restored to their natural base level in order to prevent erosion or upstream ponding (i.e. the base of roads/culverts must tie in with the natural base level of the ephemeral drainage lines).

9 Open Space Management Plan

OBJECTIVE: Prevent occurrence of excessive open areas

- Minimise removal of vegetation during construction and operation to reduce the risk of excessive open areas occurring
- Removal of vegetation must be followed closely by rehabilitation by specialists qualified in this vegetation type's remediation.

10 Storm Water Management Plan

OBJECTIVE: Manage storm water runoff to prevent adverse impacts to terrestrial and aquatic ecosystems.

- Implement an effective system of storm water run-off control using bunds and ditches, where it is required - that is at points where water accumulation might occur. The system must effectively collect and safely disseminate any run-off water from all hardened surfaces and it must prevent any potential down slope erosion.
- Stormwater from the hardened road surfaces traversing the ephemeral drainage lines must be directed to the outer edges of the roads and must be passed through filter strips/energy dissipaters (e.g. areas of rock riprap grassed with indigenous vegetation) before being released into the ephemeral drainage lines.
- All surfaces draining towards the stormwater system should be inspected on a regular basis for any materials that could contaminate groundwater. This includes solvents, paints, oils and fuel products.
- Visual inspection should also be carried out in the dolomitic area to ensure there is no formation of dolines (surface depressions.)

11 Fire Management Plan

OBJECTIVE: Reduce the risk of fire in the grassland environment

- Construct fire-breaks around the site/footprint area before any other construction begins.
- Prohibit smoking on-site or alternatively indicate designated smoking areas for staff.
- Designate cooking areas for staff where fire hazard will be insignificant.
- Educate staff of the dangers of open and unattended fires.
- Educate staff as to proper fire safety.
- Enforce proper waste management including disposal of flammable material (e.g. cigarette butts and packaging).
- Place firefighting equipment at appropriate locations on site and ensure staff are aware of such equipment and associated procedure.
- No fires are allowed around the construction area unless under specific circumstances such as in terms of the Explosives Act 15 Of 2003. The methods described in below are aimed at blasters who have to destroy explosives under the following circumstances:
 - (1) small quantities of surplus explosives at a blast site which can't be returned for storage to a licensed explosives magazine;
 - (2) misfired, unexploded or damaged explosives recovered from charged boreholes or found among the debris after a blast which are too dangerous to transport; and
 - (3) limited quantities of unserviceable explosives in a licensed magazine which have passed their shelf life.Blasting explosives and accessories should be destroyed by one of the following ways:
 - (1) burning; or
 - (2) detonation.
- Welding, gas cutting or cutting of metal will only be permitted in an area designated as safe by the subcontractor.

12 Erosion Management Plan

OBJECTIVE: Prevent soil erosion and rehabilitate eroded areas.

- If an activity will mechanically disturb the soil below surface in any way, then any available topsoil should first be stripped from the entire surface to be disturbed and stockpiled for re-spreading during rehabilitation. Topsoil stockpiles must be conserved against losses through erosion by establishing vegetation cover on them. During rehabilitation, the stockpiled topsoil must be evenly spread over the entire disturbed surface. Any subsurface spoils from excavations must be disposed of where they will not bury the topsoil of agricultural land.
- Compact subsoil and spread the topsoil as evenly as possible over the subsoil. The creation of permanent depressions or mounds above distribution lines must be avoided.
- Revegetate disturbed areas above distribution lines with vegetation assemblages reflecting the general species composition of the area as soon as possible after the application of topsoil. A botanical specialist should advise on appropriate species to be utilized during revegetation.
- Implement erosion control measures where required (e.g. covering steep/unstable/erosion prone areas with geotextiles; stabilising areas susceptible to erosion with sandbags; covering areas prone to erosion with brush packing, straw bales, mulch; diverting stormwater away from areas susceptible to erosion etc). This is of particular importance where roads and crossings are located on steep hillsides which are prone to erosion.
- Use gabion baskets / reno mattresses strategically for erosion protection, as required.

- Use excavators instead of bulldozers where ephemeral drainage line crossings are constructed / upgraded to reduce sedimentation and consolidate the entry and exit points to reduce scouring.
- Place silt fences / traps strategically on the periphery of the construction footprint area including the construction camp, cleared areas, storage areas, soil stockpile areas and laydown areas. Ensure runoff is not channeled directly into the drainage lines.

13 Leakage / Spillage Monitoring System

OBJECTIVE: Prevent and monitor accidental leakages and spillages

- All vehicles and other equipment (generators etc.) must be regularly serviced to ensure they do not spill oil. Vehicles should be refuelled on paved (impervious) areas, optimally off-site. If liquid product is being transported it must be ensured this does not spill during transit.
- Emergency measures and plans must be put in place and rehearsed in order to prepare for accidental spillage.
- Diesel fuel storage tanks must be above ground on a concrete surface in a bunded area.
- Engines that stand in one place for an excessive length of time (1-2 months) must have drip trays.
- When servicing equipment on site, drip trays shall be used to collect the waste oil and other lubricants. Drip trays shall also be provided in construction areas for stationary plant (such as generators, pumps and compressors) and for Transport and Earthmoving Equipment (such as scrapers, diggers, loaders, trucks, cranes, etc.). Drip trays shall be inspected and emptied daily. Drip trays shall be closely monitored during rain events to ensure that they do not overflow. Where practical, the Contractor shall ensure that equipment is covered so that rainwater is excluded from the drip trays.
 - Vehicle and washing areas must also be on paved surfaces and the by-products removed to an evaporative storage area or a hazardous waste disposal site (if the material is hazardous).
- If spillages occur, they should be contained and removed as rapidly as possible, with correct disposal procedures of the spilled material, and reported. Proof of disposal (waste disposal slips or waybills) should be obtained and retained on file for auditing purposes.

14 Protection of Hydrological Features Measures

OBJECTIVE: Prevent groundwater contamination and freshwater features

- If possible, crossing areas should be developed at 90 degree angles to ephemeral drainage lines in order to limit the area of disturbance.
- A maximum construction working servitude of 3m should be allowed to either side of ephemeral drainage line crossing areas.
- Avoid the use of infill material or construction material with pollution / leaching potential when constructing or widening roads across drainage lines.
- Dispose of concrete and cement-related mortars in an environmental sensitive manner (can be toxic to aquatic life). Washout should not be discharged into drainage lines. A washout area should be designated at least 30m from any buffer zone, and wash water should be treated on-site.
- Prohibit the mixing of concrete on exposed soils. Concrete must be mixed on an impermeable surface in an area of low environmental sensitivity identified by the ECO outside of the buffer area.

- Construct temporary bunds around areas within drainage lines where cement is to be cast in-situ.

15 Waste Management Plan

OBJECTIVE: Promote proper waste disposal, waste reduction, re-use, and recycling opportunities

- Prohibit the dumping of excavated material within the channel.
- All excavated material shall be used for road works.
- Cut material shall be used, where possible, in construction or on site (e.g. in grading gravel roads), or removed from site. A suitable area for the storage of waste must be selected (away from water courses) and included in the site layout plan.
- Ensuring that an adequate number of rubbish and “spill” bins are provided will also prevent litter and ensure the proper disposal of waste and spills
- Implement effective waste management in order to prevent construction related waste from entering the freshwater environments.
- Ensure an adequate and sustainable use of resources.
- Waste separation is encouraged and therefore receptacles should be labelled to reflect the different waste types.
- All operational waste (concrete, steel, rubbles etc.) to be removed from the site and waste hierarchy of prevention, as the preferred option, followed by reuse, recycling, recovery must be implemented, where possible.
- Other non-hazardous solid waste (e.g. packaging material) to be disposed of at a licensed landfill.
- All liquid waste (used oil, paints, lubricating compounds and grease) to be packaged and disposed of by appropriate means.
- Adequate containers for the cleaning of equipment and materials (paint, solvent) must be provided as to avoid spillages.
- Waste water from construction and painting activities must be collected in a designated container and disposed of at a suitable disposal point off site.
- Control and implement waste management plans provided by contractors. Ensure that relevant legislative requirements are respected.
- Vegetative material will be kept on site and mulched after construction to be spread over the disturbed areas to enhance rehabilitation of the natural vegetation.
- The subcontractor shall not dispose of any waste and/or construction debris by burning or burying.
- Off-cuts (steel, wood etc) will be re-used or recycled, as far as possible.

16 A transportation plan

OBJECTIVE: Manage the transportation of turbine components, main assembly cranes and other large pieces of equipment

- Wind turbine components will be delivered to site using road transport and due to the size of the components, the vehicles used to deliver turbine components will be considered abnormal loads in terms of the Road Traffic Act (Act No 29 of 1989).
- The delivery of wind turbine components to the site can be staggered and trips can be scheduled to occur outside of peak traffic periods.
- A permit for a vehicle carrying an abnormal load must be obtained from the relevant Provincial Authority.

- When the manufacturing location of the turbine components has been established, the Specific mitigation measures should be developed for the delivery route, once finalised.
- A minimum required road width of 4 meters needs to be kept and all turning radii must conform with the specifications needed for the abnormal load vehicles and haulage vehicles.
- It needs to be ensured that the gravel sections of the haulage routes remain in good condition and will hence need to be maintained during the additional loading of the construction phase and then reinstated after construction is completed.
- The gravel roads will require grading with a road grader to obtain a flat even surface and the geometric design of these gravel roads needs to be confirmed at detailed design stage.
- Geometric design constraints might be encountered due to the rolling, hilly topography of the area. The road designer should take cognizance that the turbines are to be positioned at the top of the hills, therefore roads need to be designed with smooth, relatively flat gradients to allow an abnormal load vehicle to ascend to the top of the hill.

17 A traffic management plan

OBJECTIVE: Manage the traffic generation of the project

- Adhere to existing roads and road rules associated with them (for instance speed limits).
- Obtain permits from relevant administrative authority in the event of abnormal load transportation to and from site.
- Strictly regulate speed limit of construction vehicles.
- Demarcate and strictly control parking areas so that vehicles are limited to specific areas only;
- Ensure that roadworthy and safety standards are implemented for construction vehicles.
- Avoid construction vehicles movement on public roads during peak traffic times (06:00 – 09:00 and 16:00 – 19:00).
- Staff and general trips should occur outside of peak traffic periods.
- Implement clear and visible signalling to indicate the movement of vehicles and when turning onto or off access roads to ensure safe access to and from the site.

Appendix A. CV of EAP

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Curriculum Vitae: Minnelise Levendal – Project Leader

Name of firm	CSIR
Name of staff	Minnelise Rouchelle-Ann Levendal
Profession	Environmental Assessment Practitioner/Project Manager
Position in firm	Senior Environmental Assessment Practitioner
Years' experience	17 years
Nationality	South African
Languages	Afrikaans and English
Licence	Code EB (22 years)

BIO-SKETCH:

Minnelise has been working in the Environmental Management sector for 17 years. She completed her BSc degree in Botany at the University of the Western Cape in 1994 and her Masters (MSc) in Botany at the University of Stellenbosch in 1998. After completing her Honours degree she lectured Mycology at the Peninsula Technicon (now known as the Cape Peninsula University of Technology (CPUT) in 1995. She then lectured Botany to second year students at the University of the Western Cape (UWC) in 1996.

Following the completion of her Masters Degree she was selected as one of 20 students from third world countries to attend a course on desertification in 1999 sponsored by the Shalom programme at the Ramon Science Center, Sede Boqer, Mitrani Department of Desert Ecology, Bengurion University of the Negev, Israel. After successfully completing the one-month course, she worked at the said institution as a research assistant for two months. The research she conducted led to the publication of an article that was published in the Journal of Arid Environments in 2004-see list of publications.

Following her studies and research work at the Bengurion University, she was appointed as an Environmental Officer at the Western Cape Department of Environmental Affairs and Development Planning (DEA&DP) in November 1999. Her work included commenting on Environmental Impact Assessments (EIAs), Basic Assessments (BAs) and Environmental Management Plans (EMPs) to ensure that environmental issues are adequately addressed in development applications. At DEA&DP she also worked in the Biodiversity unit to promote the mainstreaming of biodiversity issues into environmental decision-making, policies and planning. From 2003 until 2004 she was the secretary for the Interim Western Cape Coastal Coordinating Committee (IWCCC). She was also a member of the IAIA (Western Cape) steering committee from 2001 to 2002. At

DEA&DP she attended numerous courses on Environmental Management (including Environmental Law)-a full list of courses is available on request.

Minnelise is currently a Senior Environmental Assessment Practitioner (EAP) in the Environmental Management Services (EMS) Group at the Council for Scientific and Industrial Research (CSIR) in Stellenbosch. She joined the CSIR in 2004. Her current work entails managing EIAs and BAs to ensure that environmental criteria are adequately assessed in development applications, including monitoring and evaluation. She also prepares proposals and write reports.

She is currently managing various EIAs for renewable energy projects in South Africa, including wind and solar. She was the project manager for ten BAs for wind monitoring masts in South Africa as part of the National Wind Atlas Project of the Department of Energy. Environmental Authorisation for these 10 BAs were granted by the national Department of Environmental Affairs (DEA) in 2010. She was the CSIR project manager for the 100 MW Ubuntu Wind Energy Facility near Jeffrey's Bay (Environmental Authorisation granted in June 2012), as well as the 50 MW Banna Ba Pifhu Wind Energy proposed by WKN Windcurrent near Humansdorp in the Eastern Cape (Environmental Facility Authorisation granted in July 2014). She also managed seven EIAs for seven solar Photovoltaic (PV) Facilities near Kenhardt for Mulilo Renewable Project Developments (2015-2016). She is currently managing two EIAs for two wind energy facilities near Victoria West in the Northern Cape for Mainstream Renewable Power Developments.

Minnelise is currently managing the Special Needs and Skills Development Programme of DEA (2014-2018) which provide *pro bono* environmental services to applicants with special needs. This involves mentoring interns and Junior Environmental Assessment Practitioners.

In addition to the EIAs and BAs undertaken by Minnelise, she was also the Project Manager of other diverse projects to promote environmental management including *inter alia*:

- Biodiversity Management Plan for the African Lion (*Panthera leo*) (2014);
- Development of a National Management Plan and Strategy for Invasive Alien species (2014);
- South Africa's Second National Communication under the United Nations Framework Convention on Climate change (2010); and
- The development of protocols for the monitoring and evaluation of benefits arising from the Working for Water Programme (2008).

In undertaking these projects, Minnelise has developed a keen grasp of national and international sustainability issues which affect people and the environment. She has a good knowledge of environmental legislation and environmental management in general.

EDUCATION

▪ M.Sc. (Botany)	Stellenbosch University	1998
▪ B.Sc. (Hons.) (Botany)	University of the Western Cape	1994
▪ B.Sc. (Education)	University of the Western Cape	1993

Appendix B. Fossil Finds Protocol

Province & region:	KURUMAN DISTRICT, NORTHERN CAPE	
Responsible Heritage Management Authority	South African Heritage Resources Agency. Contact details: SAHRA, 111 Harrington Street, Cape Town. PO Box 4637, Cape Town 8000, South Africa. Phone : +27 (0)21 462 4502. Fax: +27 (0)21 462 4509. Web : www.sahra.org.za	
Rock unit(s)	Asbestos Hills Subgroup, Caenozoic alluvium, calcretes, breccias & calctufa	
Potential fossils	Mammalian and other vertebrate bones, teeth in older alluvium, calc tufa, breccias, calcretes.	
ECO protocol	1. Once alerted to fossil occurrence(s): alert site foreman, stop work in area immediately (<i>N.B.</i> safety first!), safeguard site with security tape / fence / sand bags if necessary.	
	2. Record key data while fossil remains are still <i>in situ</i> : <ul style="list-style-type: none"> • Accurate geographic location – describe and mark on site map / 1: 50 000 map / satellite image / aerial photo • Context – describe position of fossils within stratigraphy (rock layering), depth below surface • Photograph fossil(s) <i>in situ</i> with scale, from different angles, including images showing context (<i>e.g.</i> rock layering) 	
	3. If feasible to leave fossils <i>in situ</i> : <ul style="list-style-type: none"> • Alert Heritage Management Authority and project palaeontologist (if any) who will advise on any necessary mitigation • Ensure fossil site remains safeguarded until clearance is given by the Heritage Management Authority for work to resume 	3. If <i>not</i> feasible to leave fossils <i>in situ</i> (emergency procedure only): <ul style="list-style-type: none"> • <i>Carefully</i> remove fossils, as far as possible still enclosed within the original sedimentary matrix (<i>e.g.</i> entire block of fossiliferous rock) • Photograph fossils against a plain, level background, with scale • Carefully wrap fossils in several layers of newspaper / tissue paper / plastic bags • Safeguard fossils together with locality and collection data (including collector and date) in a box in a safe place for examination by a palaeontologist • Alert Heritage Management Authority and project palaeontologist (if any) who will advise on any necessary mitigation
	4. If required by Heritage Management Authority, ensure that a suitably-qualified specialist palaeontologist is appointed as soon as possible by the developer.	
	5. Implement any further mitigation measures proposed by the palaeontologist and Heritage Management Authority	
Specialist palaeontologist	Record, describe and judiciously sample fossil remains together with relevant contextual data (stratigraphy / sedimentology / taphonomy). Ensure that fossils are curated in an approved repository (<i>e.g.</i> museum / university / Council for Geoscience collection) together with full collection data. Submit Palaeontological Mitigation report to Heritage Resources Authority. Adhere to best international practice for palaeontological fieldwork and Heritage Management Authority minimum standards.	