



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road · Arcadia · PRETORIA
Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/1015

Enquiries: Mr Vincent Chauke

Telephone: (012) 399 9399 E-mail: vchauke@environment.gov.za

Andrea Gibb
SiVEST SA (Pty) Ltd
Po Box 2921
RIVONIA
2128

Telephone Number: (011) 798 0638
Email Address: andreag@sivest.co.za

PER E-MAIL / MAIL

Dear Sir/ Madam

ACCEPTANCE OF THE SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF THE 235MW HARTEBEEST LEEGTE WIND FARM SITUATED NEAR LOERIESFONTEIN, HANTAM LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE

The Scoping Report (SR) and Plan of Study for Environmental Impact Assessment (PoSEIA) dated 04 August 2017 and received by this Department on 04 August 2017 refer.

This Department has evaluated the submitted SR and the PoSEIA dated August 2017 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).

Please be advised that the contact person for renewable projects at the SAAO office is Dr Ramotholo Sefako and he can be contacted on Tel: (011) 447 0025 or E-mail: rrs@saa0.ac.za.

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 8, 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. SKA-SA on their comments dated 18 November 2016 indicated that as a result of the medium to high risk associated with the wind facilities, the SKA project office recommends that further EMI and RFI detailed studies be conducted as significant mitigation measures may be required to lower the risk of detrimental impact to an acceptable level.
- ii. Based on the above, the applicant must conduct detailed EMI and RFI specialist studies which must be included in the EIAr. SKA-SA must be engaged to guide the drafting of the terms of reference and comments from SKA-SA must be included in the EIAr.
- iii. The Path Loss and Risk Assessment report compiled by Interference Testing and Consultancy Services (ITC) is noted. However, comments regarding this report must be sought from SKA-SA and must form part of the draft EIAr.
- iv. Following a review of the final SR dated 04 August 2017 received by the Department on 04 August 2017, and as stated under the executive summary that an application for an on-site substation and a 132kV power line will be lodged with the Department for an environmental authorisation and it will follow Basic Assessment Process, this Department advises that the application form and the EIAr report including project description must be amended to include the correct listed activities which are only applicable to this application. As such, the Department advises that the following listed activity must be removed since it is not relevant to the proposed WEF development and a separate application for this application will be lodged with the Department:

“GN R 983 Item 11:

*The development of facilities or infrastructure for the transmission and distribution of electricity-
Outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts.”*

- v. The EIAr must provide an assessment of the impacts and mitigation measures for each of the listed activities applied for.
- vi. The listed activities in the EIAr and the application form must be the same and correct.
- vii. The EIAr must provide the technical details for the proposed facility in a table format as well as their description and/or dimensions. A sample for the minimum information required is listed under point 2 of the EIA information required for wind energy facilities below.
- viii. 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.
- ix. 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.
- x. The EIAR must also include a comments and response report in accordance with Appendix 2 h (iii) of the EIA Regulations, 2014 as amended.
 - xi. The EIAR must include the detail inclusive of the Public Participation Process in accordance with Regulation 41 of the EIA Regulations.
 - xii. 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.
 - xiii. 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. In addition, a graphical representation of the proposed development within the respective geographical areas must be provided.
 - xiv. The terms of reference for the ecological assessment must also investigate the following:
 - Take into consideration the comments from the DENC, SKA and BirdLife SA regarding the season in which the fieldwork of the ecological study was undertaken. Comments from DENC, SKA and BirdLife SA must be sought in this regard.
 - Must indicate and describe the competing land uses in the area.
 - xv. The terms of reference for the visual assessment must also investigate the following:
 - Assess and rate the cumulative impact of multiple WEFs in the landscape.
 - The South African Astronomy Observatory must be thoroughly engaged and their comments included as part of the EIAR.
 - xvi. The Bat and Avifaunal specialist assessments must assess and make recommendations for definite measurements for the preferred hub heights and rotor diameter.
 - xvii. The 12 months Bird and Bat Monitoring must be conducted in line with the latest guidelines. It is noted that monitoring was done from 31 July 2004 to 13 September 2004. As such, this must be amended to include the updated requirements. A copy of the latest guidelines can be found on the BirdLife South Africa's and SABAAP's website.
 - xviii. It is noted that the Visual and surface water studies were conducted in-house, such specialist reports must be peer reviewed by a suitably qualified external specialist in the relevant field. The terms of reference for the peer review must include:
 - A CV clearly showing expertise of the peer reviewer;
 - Acceptability of the terms of reference;
 - Is the methodology clearly explained and acceptable;
 - Evaluate the validity of the findings (review data evidence);
 - Discuss the suitability of the mitigation measures and recommendations;
 - Identify any shortcomings and mitigation measures to address the shortcomings;
 - Evaluate the appropriateness of the reference literature;
 - Indicate whether a site-inspection was carried out as part of the peer review; and
 - Indicate whether the article is well-written and easy to understand.
 - xix. Information on services required on the site, e.g. 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.
 - xx. The EIAR must provide a detailed description of the need and desirability, not only providing motivation on the need for clean energy in South Africa of the proposed activity. The need and desirability must also

indicate if the proposed development is needed in the region and if the current proposed location is desirable for the proposed activity compared to other sites. The need and desirability must take into account cumulative impacts of the proposed development in the area.

- xxi. The EIA 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.
- xxii. Please note that information on location of renewable energy developments can be accessed from <https://www.environment.gov.za/mapsgraphics>.
- xxiii. 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.
- xxiv. An environmental sensitivity map indicating environmental sensitive areas and features identified during the EIA process.
- xxv. A map combining the final layout map superimposed (overlain) on the environmental sensitivity map.
- xxvi. 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 EIA must include the following:

- i. All recommendations and mitigation measures recorded in the EIA and the specialist studies conducted.
- ii. A good quality final site layout map.
- 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 two (2) hard copies of the EIAr to the Department as per Regulation 23(1) of the EIA Regulations, 2014.

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: 11/09/2017

cc:	Mr Michael Mangnall	South African Mainstream Renewable Power Developments (Pty) Ltd	Email: mike.mangnall@mainstreamrp.com
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A. EIA INFORMATION REQUIRED FOR WIND ENERGY FACILITIES

1. General site information

The following general site information is required:

- Descriptions of all affected farm portions
- 21 digit Surveyor General codes of all affected farm portions
- Copies of deeds of all affected farm portions
- Photos of areas that give a visual perspective of all parts of the site
- Photographs from sensitive visual receptors (tourism routes, tourism facilities, etc.)
- Facility design specifications including:
 - Type of technology
 - Structure height
 - Surface area to be covered (including associated infrastructure such as roads)
 - Structure orientation
 - Laydown area dimensions (construction period and thereafter)
 - Generation capacity
- Generation capacity of the facility as a whole at delivery points

This information must be indicated on the first page of the EIAr. It is also advised that it be double checked as there are too many mistakes in the applications that have been received that take too much time from authorities to correct.

2. Sample of technical details for the proposed facility:

Component	Description/ Dimensions
Location of the site	
Facility area	
SG Codes	
Site access	
Export capacity	
Proposed technology	
Hub height from ground level	
Rotor diameter	
Area occupied by substations	
Area occupied by both permanent and construction laydown areas	
Area occupied by buildings	
Width and length of internal roads	
Proximity to grid connection	
Type and height of fencing	

3. Site maps and GIS information

Site maps and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- All affected farm portions must be indicated
- The exact site of the application must be indicated (the areas that will be occupied by the application)

- A status quo map/layer must be provided that includes the following:
 - Current use of land on the site including:
 - Buildings and other structures
 - Agricultural fields
 - Grazing areas
 - Natural vegetation areas (natural veld not cultivated for the preceding 10 years) with an indication of the vegetation quality as well as fine scale mapping in respect of Critical Biodiversity Areas and Ecological Support Areas
 - Critically endangered and endangered vegetation areas that occur on the site
 - Bare areas which may be susceptible to soil erosion
 - Cultural historical sites and elements
 - Rivers, streams and water courses
 - Ridgelines and 20m continuous contours with height references in the GIS database
 - Fountains, boreholes, dams (in-stream as well as off-stream) and reservoirs
 - High potential agricultural areas as defined by the Department of Agriculture, Forestry and Fisheries
 - Buffer zones (also where it is dictated by elements outside the site):
 - 500m from any irrigated agricultural land
 - 1km from residential areas
 - Indicate isolated residential, tourism facilities on or within 1km of the site
- A slope analysis map/layer that include the following slope ranges:
 - Less than 8% slope (preferred areas for WIND TURBINE and infrastructure)
 - between 8% and 12% slope (potentially sensitive to WIND TURBINE and infrastructure)
 - between 12% and 14% slope (highly sensitive to WIND TURBINE and infrastructure)
 - steeper than 18 % slope (unsuitable for WIND TURBINE and infrastructure)
- A site development proposal map(s)/layer(s) that indicate:
 - Foundation footprint
 - Permanent laydown area footprint
 - Construction period laydown 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)
 - River, stream and water crossing of roads and cables indicating the type of bridging structures that will be used
 - Substation(s) and/or transformer(s) sites including their entire footprint.
 - Cable routes and trench dimensions (where they are not along internal roads)
 - Connection routes to the distribution/transmission network (the connection must form part of the EIA even if the construction and maintenance thereof will be done by another entity such as ESKOM)
 - Cut and fill areas at WIND TURBINE sites along roads and at substation/transformer sites indicating the expected volume of each cut and fill
 - Borrow pits
 - Spoil heaps (temporary for topsoil and subsoil and permanently for excess material)
 - Buildings including accommodation

With the above information authorities will be able to assess the strategic and site impacts of the application.

4. Regional map and GIS information

The regional map and GIS information should include at least the following:

- All maps/information layers must also be provided in ESRI Shapefile format
- The map/layer must cover an area of 20km around the site
- Indicate the following:
 - roads including their types (tarred or gravel) and category (national, provincial, local or private)
 - Railway lines and stations
 - Industrial areas
 - Harbours and airports
 - Electricity transmission and distribution lines and substations
 - Pipelines
 - Waters sources to be utilised during the construction and operational phases
 - A visibility assessment of the areas from where the facility will be visible
 - Critical Biodiversity Areas and Ecological Support Areas
 - Critically Endangered and Endangered vegetation areas
 - Agricultural fields
 - Irrigated areas
 - An indication of new road or changes and upgrades that must be done to existing roads in order to get equipment onto the site including cut and fill areas and crossings of rivers and streams.

5. Important stakeholders

Amongst other important stakeholders, comments from the National Department of Agriculture, Forestry and Fisheries must be obtained and submitted to the Department. Any application, documentation, notification etc. should be forwarded to the following officials:

Ms Mashudu Marubini
Delegate of the Minister (Act 70 of 1970)
E-mail: MashuduMa@daff.gov.za
Tel 012- 319 7619

Ms Thoko Buthelezi
AgriLand Liaison office
E-mail: ThokoB@daff.gov.za
Tel 012- 319 7634

All hardcopy applications / documentation should be forwarded to the following address:

Physical address:

Delpen Building
Cnr Annie Botha and Union Street
Office 270
Attention: Delegate of the Minister Act 70 of 1970

Postal Address:

Department of Agriculture, Forestry and Fisheries
Private Bag X120
Pretoria
0001
Attention: Delegate of the Minister Act 70 of 1970

In addition, comments must be requested from Eskom regarding grid connectivity and capacity. Request for comment must be submitted to:

Mr John Geeringh
Eskom Transmission
Megawatt Park D1Y38
PO Box 1091
JOHANNESBURG
2000

Tel: 011 516 7233
Fax: 086 661 4064
John.geeringh@eskom.co.za

B. AGRICULTURE STUDY REQUIREMENTS

- Detailed soil assessment of the site in question, incorporating a radius of 50 m surrounding the site, on a scale of 1:10 000 or finer. The soil assessment should include the following:
 - Identification of the soil forms present on site
 - The size of the area where a particular soil form is found
 - GPS readings of soil survey points
 - The depth of the soil at each survey point
 - Soil colour
 - Limiting factors
 - Clay content
 - Slope of the site
 - A detailed map indicating the locality of the soil forms within the specified area,
 - Size of the site
- Exact locality of the site
- Current activities on the site, developments, buildings
- Surrounding developments / land uses and activities in a radius of 500 m of the site
- Access routes and the condition thereof
- Current status of the land (including erosion, vegetation and a degradation assessment)
- Possible land use options for the site
- Water availability, source and quality (if available)
- Detailed descriptions of why agriculture should or should not be the land use of choice
- Impact of the change of land use on the surrounding area
- A shape file containing the soil forms and relevant attribute data as depicted on the map.

C. ASTRONOMY GEOGRAPHIC ADVANTAGE ACT, 2007 (ACT NO. 21 OF 2007)

The purpose of the Act is to preserve the geographic advantage areas that attract investment in astronomy. The entire Northern Cape Province excluding the Sol Plaatje Municipality had been declared an astronomy advantage area. The Northern Cape optical and radio telescope sites were declared core astronomy advantage areas. The Act allowed for the declaration of the Southern Africa Large Telescope (SALT), MeerKAT and Square Kilometre Array (SKA) as astronomy and related scientific endeavours that had to be protected.

You are requested to indicate the applicability of the Astronomy Geographic Advantage Act, Act No. 21 of 2007 on the application in the BAR/EIR. You must obtain comments from the Southern African Large Telescope (SALT) if the proposed development is situated within a declared astronomy advantage area.

Stephan Jacobs

From: Stephan Jacobs
Sent: Monday, August 28, 2017 3:30 PM
To: 'vchauke@environment.gov.za'
Cc: Andrea Gibb; Hlengiwe Ntuli
Subject: 13622 Mainstream Wind Farms Near Loeriesfontein - Acknowledgement of Receipt Letters Outstanding
Attachments: 20170807 DEA Acknowledgment of Receipt of FSR HL.pdf
Importance: High

Good Afternoon Mr. Chauke,

My company (SiVEST) has been appointed as the Environmental Assessment Practitioner (EAP) to undertake the Environmental Impact Assessment (EIA) processes for the proposed development of four (4) wind farms and associated infrastructure near Loeriesfontein in the Northern Cape province. The wind farms are referred to as the Graskoppies (**DEA Ref No.: 14/12/16/3/3/2/1017**), Hartebeest Leegte (**DEA Ref No.: 14/12/16/3/3/2/1015**), Ithemba (**DEA Ref No.: 14/12/16/3/3/2/1016**) and Xha! Boom (**DEA Ref No.: 14/12/16/3/3/2/1018**) Wind Farms respectively.

The Final Scoping Reports (FSRs) for the above-mentioned projects were submitted to the DEA on the 4th of August 2017. However, as discussed, SiVEST have only received an Acknowledgement of Receipt Letter (see attached) for the Hartebeest Leegte Wind Farm (**DEA Ref No.: 14/12/16/3/3/2/1015**). We have not yet received anything for the other three (3) proposed wind farms (i.e. Graskoppies - **14/12/16/3/3/2/1017**; Ithemba - **14/12/16/3/3/2/1016** and Xha! Boom - **14/12/16/3/3/2/1018**).

As such, please can you investigate this for us and advise why the acknowledgement of receipt letters for the other three (3) proposed wind farms (Graskoppies, Ithemba and Xha! Boom) have not yet been issued.

Your urgent response will be greatly appreciated.

Kind Regards,

Stephan Jacobs (*B.Sc.(Hons) Environmental Management and Analysis*)

Environmental Consultant

SiVEST Environmental Division



SiVEST is a Level 3 BBBEE Contributor

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Consulting Engineers - Project Managers - Environmental Consultants - Town and Regional Planners
Durban - Johannesburg - Pietermaritzburg - Richards Bay - Port Louis (Mauritius)



environmental affairs

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DEA Reference: 14/12/16/3/2/1015

Enquiries: Phaphama Mduywa

Tel: 012 399 8913 **E-mail:** PMduywa@environment.gov.za

Andrea Gibb
SiVEST Environmental Division
P O Box 2921
RIVONIA
2128

Telephone number: 011 798 0600
Email address: info@sivest.co.za

PER EMAIL / MAIL

Dear Sir/Madam

ACKNOWLEDGEMENT OF RECEIPT OF FINAL SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF THE HARTEBEEST LEEGTE WIND FARM NEAR LOERIESFONTEIN WITHIN THE NORTHERN CAPE PROVINCE.

The Department confirms having received the Final Scoping Report for Environmental Authorisation for the above-mentioned project on 04 August 2017.

You are hereby reminded that the activity may not commence prior to an Environmental Authorisation being granted by the Department.

Kindly quote this reference number in all your future submissions.

Yours Sincerely

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Environmental Affairs

Letter signed by: Ms Toinette Van Der Merwe

Designation: Environmental Officer Specialised Production: EIA Coordination, Strategic Planning and Support

Date: 07/08/2017



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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Tel (+ 27 12) 399 9372

DEA Reference: 14/12/16/3/3/2/1015

Enquiries: Mr Vincent Chauke

Telephone: (012) 399 9399 **E-mail:** vchauke@environment.gov.za

Andrea Gibb
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PO Box 2921
RIVONIA
2128

Telephone Number: (011) 798 0638
Email Address: andreag@sivest.co.za

PER E-MAIL / MAIL

Dear Sir/ Madam

COMMENTS ON THE DRAFT SCOPING REPORT FOR THE PROPOSED CONSTRUCTION OF THE 235MW HARTEBEEST LEEGTE WIND FARM SITUATED NEAR LOERIESFONTEIN, HANTAM LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE

The application form and draft Scoping Report (SR) dated June 2017 and received by this Department on 21 June 2017 refer.

This Department has the following comments on the abovementioned application:

- a. Please ensure that all relevant listed activities 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. The final SR must include a copy of the advert used in terms of Regulation 41. (2)(c) of the EIA Regulations 2014, as amended. The advert must clearly shows the name of the newspaper and the date on which the advert was placed.
- d. 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.
- e. Due to the number of 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.
- f. The identified cumulative impacts associated with the proposed development must be rated with the significance rating methodology.

- g. The cumulative impacts significance rating must inform the need and desirability of the proposed development.
- h. 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 mitigation measures were drafted for this project.
- i. The 12 months Bird and Bat Monitoring must be conducted in line with the latest guidelines. It is noted that monitoring was done in 2015. As such, this must be amended to include the updated requirements. A copy of the latest guidelines can be found on the BirdLife South Africa's and SABAAP's website.
- j. 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.

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: 12/07/2017

cc:	Mr Michael Mangnall	South African Mainstream Renewable Power Developments (Pty) Ltd	Email: mike.mangnall@mainstreamrp.com
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environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road, Arcadia · PRETORIA

DEA Reference: 14/12/16/3/3/2/1015

Enquiries: Ms Toinette van der Merwe

Tel: 012 399 9320 E-mail: tvandermerwe@environment.gov.za

Andrea Gibb
SIVEST SA (PTY) Ltd
PO Box 2921
RIVONIA
2128

Fax: 011 803 7272
Tel: 011 798 0638
Email: andreag@sivest.co.za

PER EMAIL / MAIL

Dear Sir/Madam

ACKNOWLEDGEMENT OF RECEIPT OF THE NEW APPLICATION FOR ENVIRONMENTAL AUTHORISATION (ENVIRONMENTAL IMPACT ASSESSMENT PROCESS) AND SCOPING REPORT FOR THE PROPOSED DEVELOPMENT OF THE HARTEBEEST LEEGTE WIND FARM NEAR LOERIESFONTIN, NORTHERN CAPE PROVINCE

The Department confirms having received the Application for Environmental Authorisation and Draft Scoping Report for the abovementioned project on 21 June 2017. You have submitted these documents to comply with the Environmental Impact Assessment Regulations (EIA), 2014, as amended.

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 time-frames prescribed in terms of these Regulations, unless an extension has been granted by the Department in terms of Regulation 3(7) of the EIA Regulations, 2014, as amended.

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.

Kindly quote the abovementioned reference number in any future correspondence in respect of the application.

Yours sincerely

Mr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs

Letter signed by: Ms Toinette van der Merwe

Designation: Environmental Officer: EIA Coordination, Strategic Planning and Support

Date: 22/06/2017

CC	Mr Mike Mangnall	South Africa Mainstream Renewable Power Developments (Pty) Ltd	Email: mike.mangnall@mainstreamrp.com
	Thulani Mthombeni	Northern Cape Department of Environmental Affairs and Nature Conservation	Email: tmtho@webmail.co.za



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

	(For official use only)
File Reference Number:	
NEAS Reference Number:	
Date Received:	

Application for authorisation in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), (the Act) and the Environmental Impact Assessment Regulations, 2014 (the Regulations)

PROJECT TITLE

Proposed Construction of the Hartebeest Leegte Wind Farm near Loeriesfontein, Northern Cape Province

Indicate if the **DRAFT** report accompanies the application

Yes
No

Kindly note that:

1. This application form is current as of 1 April 2016. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
2. The application must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.
3. Where applicable **black out** the boxes that are not applicable in the form.
4. The use of the phrase "not applicable" in the form must be done with circumspection.
5. This application must be handed in at the offices of the National Department of Environmental Affairs where the Minister is the competent authority in respect of the application.
6. No faxed or e-mailed applications will be accepted. An electronic copy (in the form of a CD) of the signed application form must be submitted together with two hardcopies (one of which must contain the original signatures).
7. Unless protected by law, all information filled in on this application form may become public information on receipt by the competent authority.
8. Should a specialist report or report on a specialised process be submitted at any stage for any part of this application, the terms of reference for such report and declaration of interest of the specialist must also be submitted.
9. Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for the Fee Regulations (Fees for consideration and processing of applications for environmental authorisations and amendments thereto Government Notice No.141, published on 28 February 2014) is applicable AND such information in section 1 of this application form has been confirmed by this Department.

Departmental Details

The application must be addressed to the Chief Directorate: Integrated Environmental Authorisations at:

Postal address:

Department of Environmental Affairs
Attention: Director: Integrated Environmental Authorisations
Private Bag X447
Pretoria
0001

Physical address:

Department of Environmental Affairs
Attention: Director: Integrated Environmental Authorisations
Environment House
473 Steve Biko Road
Arcadia
Pretoria

Queries must be addressed to the contact below:

E-mail: EIAAdmin@environment.gov.za

Please note that this form must be copied to the relevant provincial environmental department/s.

View the Department's website at <http://www.environment.gov.za/> for the latest version of the documents.

1. PROOF OF PAYMENT

Applicants are required to tick the appropriate box below to indicate that either proof of payment is attached or that, in the applicant's view, an exclusion applies. Proof and a motivation for exclusions must be attached to this application form in **Appendix 1**.

Proof of payment attached as **Appendix 1**
 Exclusion applies

An applicant is excluded from paying fees if:

The activity is a community based project funded by a government grant; or
 The applicant is an organ of state.

TYPE OF EXCLUSION	Tick where applicable. Proper motivation must be attached to the application
The activity is a community based project funded by a government Grant	
The applicant is an organ of state	
This is an updated version of an existing application	

FEE AMOUNT	Fee
Application for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations	
Application for an environmental authorisation, for which S&EIR is required in terms of the Environmental Impact Assessment Regulations	R10 000 ✓

Department of Environmental Affairs' details for the payment of application fees:

<p>Payment Enquiries: Tel: 012 399 9119 Email: eiafee@environment.gov.za</p> <p>Banking details: ABSA Bank Branch code: 632005 Account number: 1044 2400 72 Current account Reference number: Reference number to be provided in the specific format indicating centre point coordinates of site in decimal degrees to 5 or 6 decimal places: latitude/longitude e.g. -33.918861/18.423300</p> <p>Proof of payment must accompany the application form: Indicate reference number below.</p> <p>Tax exemption status: Status: Tax exempted</p> <p>Reference number: SiVEST SA (Refer to Appendix 1 for explanation)</p>
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2. PROJECT DESCRIPTION

Please provide a **detailed** description of the project.

South Africa Mainstream Renewable Power Developments (Pty) Ltd (hereafter referred to as Mainstream) are proposing to construct a wind farm and associated infrastructure near Loeriesfontein in the Northern Cape Province of South Africa (hereafter referred to as the 'proposed development'). The proposed development will consist of a wind farm with a maximum export capacity of up to 235MW referred to as Hartebeest Leegte Wind Farm. The overall objective of the project is to generate electricity to feed into the National Grid.

The proposed wind farm is located approximately 62km north of Loeriesfontein in the Northern Cape Province, within the Hantam Local Municipality. The application site is on the following property:

- Entire part of the Remainder of the Farm Hartebeest Leegte No. 216.

The project site has been identified through pre-feasibility studies conducted by Mainstream based on wind resource, grid connection suitability, competition, flat topography, land availability and site access. The buildable area of the site will however be determined by the sensitive areas identified during the EIA.

Technical details and infrastructure necessary for the proposed project

- Up to **70 wind turbines**, between 3 and 5MW, with an export capacity up to 235MW.
- Wind turbines will have a hub height of up to 160m and a rotor diameter of up to 160m.
- **132kV on-site Hartebeest Leegte IPP Substation**
- The turbines will be connected via **medium voltage cables** to the proposed 132kV on-site Hartebeest Leegte IPP Substation.
- Internal **access roads** are proposed to be up to 13.5 m wide. This would however only be for the construction phase as the width of the internal access roads will be reduced to 6 - 8m during the operational phase.
- A temporary construction **lay down area**.
- A **hard standing area / platform** per turbine.
- The **operations and maintenance buildings**, including an on-site spares storage building, a workshop and an operations building.
- **Fencing** (if required) will be up to 5m where required and will be either mesh or palisade.

The total amount of developable area is approximately 5094 hectares. The total buildable area for the proposed Wind Farm is 3083.45 hectares. The proposed project will encompass the installation of a wind turbines and associated infrastructure, in order to generate electricity that is to be fed into the National Grid. The facility will have a maximum export capacity of up to 235MW.

The wind turbines and all other project infrastructure will be placed strategically within the development area based on environmental constraints. The size of the wind turbines will depend on the development area and the total generation capacity that can be produced as a result. The wind turbines will therefore likely have a hub height of up to 160m and a rotor diameter of up to 160m. Each wind turbine will have a foundation diameter of up to 25m and will be approximately 3m deep, however, these dimensions may be larger if geotechnical conditions dictate as such. The hardstand area occupied by each wind turbine will be up to 0.5 hectares (85m x 60m). The excavation area will be approximately 1 000m² in sandy soils due to access requirements and safe slope stability requirements. A hard standing area / platform of approximately 2 400m² (60m x 40m) per turbine will be required for turbine crane usage. There will be up to 70 wind turbines constructed with an export capacity up to 235MW. The electrical generation capacity for each turbine will range between 3MW and 5MW, depending on the final wind turbine selected for the proposed development. It must be noted that the final selection for the turbine type will be conducted after the project has been selected as a Preferred Bidder project under the DoE REIPPPP. This is as a result of technology constantly changing as time progresses.

The wind turbines will be connected to the proposed 132kV on-site Hartebeest Leegte substation using buried (up to a 1.5m depth) medium voltage cables except where a technical assessment of the proposed design suggests that overhead lines are more appropriate such as over rivers, gullies and long runs. Where overhead power lines are to be constructed, self-supported or H-pole tower types will be used. The height will vary based on the terrain, but will ensure minimum Overhead Line (OHL) clearances with buildings, roads and surrounding infrastructure will be maintained. The dimensions of the specific OHL structure types will depend on electricity safety requirements. The exact location of the towers, the selection of the final OHL structure types and the final designs will comply with the best practise and SANS requirements.

Internal access roads with a maximum width of 20m are initially being proposed for the construction phase. This is however only temporary as the width of proposed internal access roads will be reduced to approximately 6 - 8m for maintenance purposes during the operational phase. The proposed internal access roads will include the net load carrying surface excluding any V drains that might be required.

The temporary construction lay down area will be approximately 10 000m² (100m x 100m) and will include an access road and contractor's site office area of up to 5 000m². A hard standing area / platform of approximately 2 400m² (60m x 40m) per turbine will be required for turbine crane usage.

The operation and maintenance buildings will include an on-site spares storage building, a workshop and operations building with a total combined footprint that will not exceed 5 000m². The operation and maintenance buildings will be situated in proximity to the wind farm substation due to requirements for power, water and access.

Additionally, Mainstream are proposing to construct the associated Hartebeest Leegte on-site and linking substations and power line with a capacity of up to 132kV. This associated electrical infrastructure will require a separate Environmental Authorisation (EA) and is being conducted as a part of a separate Basic Assessment (BA) process. The 132kV Hartebeest Leegte power line has been included in the wind farm EIA for background information but will be authorised under a separate BA to allow for handover to Eskom. The proposed 132kV on-site Hartebeest Leegte substation will include an Eskom portion and an Independent Power Producer (IPP) portion, hence the substation has been included in the wind farm EIA and in the on-site substation and power line BA to allow for handover to Eskom. Although the wind farm and associated electrical infrastructure will be assessed separately, a single public participation process is being undertaken to consider both of the proposed developments. The potential environmental impacts associated with both developments will be assessed as part of the cumulative impact assessment. The DEA reference number allocated for the proposed 132kV on-site Hartebeest Leegte substation and associated 132kV power line has not yet been allocated by the DEA. This will be provided in the Final Environmental Impact Assessment Report (FEIAR).

Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011?	NO
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If YES, please indicate which SIPs are applicable in **Appendix 2**. You are also required to provide confirmation of SIP applications from the relevant sector representative which must be attached in **Appendix 2**

Is the project subject to the Integrated Resource Plan 2010 – 2030 (IRP) bidding process?	YES
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Please indicate which sector the project falls under by crossing out the relevant block in the table below:

Table 1

Green economy + "Green" and energy-saving industries	✓	Greenfield transformation to urban or industrial form (including mining)	✓
Infrastructure – electricity (generation, transmission & distribution)	✓	Biodiversity or sensitive area related activities	

Oil and gas	Mining value chain
Biofuels	Potential of metal fabrication capital & transport equipment – arising from large public investments
Nuclear	Boat building
Basic services (local government) – electricity and electrification	Manufacturing – automotive products and components, and medium and heavy commercial vehicles
Basic services (local government) – area lighting	Manufacturing – plastics, pharmaceuticals and chemicals
Infrastructure – transport (ports, rail and road)	Manufacturing – clothing textiles, footwear and leather
Basic services (local government access roads)	Forestry, paper, pulp and furniture
Basic services (local government) – public transport	Business process servicing
Infrastructure – water (bulk and reticulation)	Advanced materials
Basic services (local government) – sanitation	Aerospace
Basic services (local government) – waste management	Basic services (local government) – education
Basic services (local government) water	Basic services (local government) – health
Agricultural value chain + agro-processing (linked to food security and food pricing imperatives)	Basic services (local government) - housing
Infrastructure – information and communication technology	Basic services (local government) security of tenure
Tourism + strengthening linkages between cultural industries and tourism	Other
Basic services (local government) – public open spaces and recreational facilities	

Table 2

Does the listed activity/ies applied for form part of a larger project which is not a listed activity itself e.g. a road that is a listed activity that is needed to access a drilling site where the drilling does not constitute a listed activity.	NO
If indicated yes above, please provide a brief description on how the activity/ies relate to the larger project that forms part there of:	
Not Applicable	

3. GENERAL INFORMATION

Applicant name:	South African Mainstream Renewable Power Developments (Pty) Ltd
Registration number (if applicant is a company):	2009/007850/07
Trading name (if any):	South African Mainstream Renewable Power Developments (Pty) Ltd
BBBEE status	Level Three Contributor

Responsible person name (If the applicant is a company):	Mr Michael Mangnall		
Applicant/ Responsible person ID number:	7211245134081		
Responsible position, e.g. Director, CEO, etc.:	Country Manager: South Africa		
Physical address:	4th Floor Mariendahl House, Newlands on Main, Cnr Main Road and Campground, Claremont, Cape Town		
Postal address:	PO Box 45063, CLAREMONT		
Postal code:	7735	Cell:	083 785 1492
Telephone:	021 657 4045	Fax:	021 671 5665
E-mail:	mike.mangnall@mainstreamrp.com		

Provincial Authority:	Northern Cape Department of Environment and Nature Conservation (NC DENC)		
Contact person:	Thulani Mthombeni		
Postal address:	Private Bag X 86102, Kimberley		
Postal code:	8300	Cell:	072 409 2277
Telephone:	053 807 7466	Fax:	053 831 3530
E-mail:	tmtho@webmail.co.za		

Local municipality:	Hantam Local Municipality		
Contact person:	Mr Charl du Plessis		
Postal address:	PO Box 16, Prieska		
Postal code:	8940	Cell:	082 898 4012
Telephone:	027 341 8500	Fax:	027 341 8501
E-mail:	municipalmanager@hantam.gov.za municipalmanager@hantam.gov.za		

In instances where there is more than one local authority involved, please attach a list of those local authorities with their contact details as **Appendix 3**.

Landowner:	Voordag Trust		
Contact person:	Herman Nel		
Postal address:	PO Box 71, Vredendal		
Postal code:	8160	Cell:	082 809 2040
Telephone:	027 213 2858	Fax:	N/A
E-mail:	desrtrose@nashuaisp.co.za		

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **Appendix 4**. Unless the application is in respect of linear activities or strategic integrated projects as contemplated in the Infrastructure Development Act, 2014, **written consent** of landowner/s must be submitted in **Appendix 4**.

Identified Competent Authority to consider the application:	Department of Environmental Affairs (DEA)
Reason(s) in terms of S24C of NEMA 1998 as amended:	The proposed project is for a renewable energy generating facility by an Independent Power Producer (IPP). According to the <i>Guidelines on EIAs for Facilities to be Included in the Electricity Response Plan</i> , the project forms part of the National Electricity Response Plan (NERP). All Provincial environmental authorities have agreed that the DEA is the Competent Authority for all applications from IPPs where they are included in the NERP.

4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

EAP company name:	SiVEST SA (Pty) Ltd			
B-BBEE	Contribution level (indicate 1 to 8 or non compliant)	3	Percentage Procurement recognition	110%
Professional affiliation/registration:	None			
Contact person:	Andrea Gibb			
Company:	SiVEST SA (Pty) Ltd			
Physical address:	51 Wessel Road, Rivonia			
Postal address:	PO Box 2921, Rivonia			
Postal code:	2128	Cell:	+27 72 587 6525	
Telephone:	+27 11 798 0638	Fax:	+27 11 803 7272	
E-mail:	andreag@sivest.co.za			

The appointed EAP must meet the requirements of Regulation 13 of GN R.982, dated December 2014. The declaration of independence of the EAP and undertaking under oath or affirmation that all the information submitted or to be submitted for the purposes of the application is true and correct must be submitted as **Appendix 9**.

5. SITE DESCRIPTION

Provide a detailed description of the site involved in the application.

Province	Northern Cape Province
District Municipality	Namakwa District Municipality
Local Municipality	Hantam Local Municipality
Ward number(s)	5
Nearest town(s)	Loeriesfontein
Farm name(s) and number(s)	Farm Hartebeest Leegte No. 216
Portion number(s)	Entire Remainder

Surveyor General 21 digit code

(If there are more than 4, please attach a list with the rest of the codes as **Appendix 5**. Where the 21 digit SGID and farm name are not available, the coordinates of the boundary of the property or properties must be provided in **Appendix 5**.)

C	0	1	5	0	0	0	0	0	0	0	0	2	1	6	0	0	0	0	0
1	2		3			4					5								

Are there any other applications for Environmental Authorisation on the same property?	YES
If YES, please indicate the following:	
Competent Authority	Department of Environmental Affairs (DEA)
Reference Number	To be confirmed once the applications have been submitted.
Project Name	The proposed construction of the Hartebeest Leegte 132kV Substations and Power Line near Loeriesfontein Northern Cape Province.
Please provide details of the steps taken to ascertain this information:	
SiVEST has been appointed by Mainstream to act as the EAP with regards to the proposed construction of the Hartebeest Leegte Substations and Power lines near Loeriesfontein, Northern	

Cape Province. The 132kV Substations and Power Line are being proposed to link the Hartebeest Leegete Wind Farm to the Eskom grid. The electrical infrastructure is being authorised under a separate Basic Assessment in order to facilitate handover to Eskom. The application for the 132kV Substations and Power Line will be submitted to the DEA in due course.

6. ACTIVITIES TO BE AUTHORISED

For an application for authorisation that involves more than one listed activity that, together, make up one development proposal, all the listed activities pertaining to this application must be indicated.

Detailed description of listed activities associated with the project	
Listed activity as described in GN R 983, 984 and 985 (as amended on 07 April 2017)	Description of project activity that triggers listed activity
<p>GN R. 983 Item 11: <i>The development of facilities or infrastructure for the transmission and distribution of electricity-</i></p> <p><i>(i) outside urban areas or industrial complexes with a capacity of more than 33 but less than 275 kilovolts</i></p>	<p>An on-site IPP substation will be constructed as part of the proposed wind farm. The proposed on-site IPP substation will be located outside an urban area and will have a capacity of 132kV.</p>
<p>GN R. 983 Item 12: <i>The development of:</i></p> <p><i>ii) infrastructure or structures with a physical footprint of 100 square metres or more;</i></p> <p><i>where such development occurs-</i></p> <p><i>(a) within a watercourse;</i></p> <p><i>(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse.</i></p>	<p>The proposed development will entail the construction of buildings and other infrastructure exceeding 100 square metres in size. Internal access roads will be required which will need to route to the respective wind turbines locations and to the O&M building and infrastructure. The Surface Water Scoping Study identified one (1) Depression Wetland and forty five (45) Drainage Lines (drainage lines with a channel width <5m. As a result, the layout of the proposed development will likely fall within 32m of surface water features.</p>
<p>GN R. 983 Item 19: <i>The infilling or depositing of any material of more than 10 cubic metres into, or the dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse;</i></p> <p><i>But excluding where such infilling, depositing, dredging, excavation, removal or moving-</i></p> <p><i>(a) will occur behind a development setback;</i></p> <p><i>(b) is for maintenance purposes undertaken in accordance with a maintenance management plan;</i></p> <p><i>(c) falls within the ambit of activity 21 in this Notice, in which case that activity applies.</i></p>	<p>The scoping phase surface water assessment revealed that there are surface water features located within the development area. The Surface Water Scoping Study identified one (1) Depression Wetland and forty five (45) Drainage Lines (drainage lines with a channel width <5m). Although the layout of the proposed development will be designed to avoid the identified surface water features as far as possible, some of the internal and access roads, may need to traverse the identified surface water features and during construction of these roads soil may need to be removed from the watercourses.</p>
<p>GN R. 983 Item 24: <i>The development of a road -</i></p> <p><i>ii) with a reserve wider than 13,5 meters, or where no reserve exists where the road is wider than 8 metres;</i></p>	<p>Internal access roads with a maximum width of 20m are initially being proposed for the construction phase. This is however only temporary as the width of proposed internal access roads will be reduced to approximately 6 - 8m for maintenance purposes during the operational phase.</p>
<p>GN R. 983 Item 28: <i>Residential, mixed, retail, commercial, industrial or institutional</i></p>	<p>The proposed project site is currently used for agricultural purposes, specifically commercial</p>

<p><i>developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development:</i></p> <p><i>(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare;</i></p> <p><i>excluding where such land has already been developed for residential, mixed, retail, commercial, industrial or institutional purposes.</i></p>	<p>sheep farming, and the proposed project will result in an area greater than 1 hectare being transformed into an industrial land use.</p>
<p>GN R. 983 Item 56: <i>The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre -</i></p> <p><i>(ii) where no reserve exists, where the existing road is wider than 8 metres –</i></p> <p><i>excluding where widening or lengthening occur inside urban areas.</i></p>	<p>It is likely that existing access roads will need to be upgraded in order to access the site. Internal access roads with a maximum width of 13.5m are initially being proposed for the construction phase. This is however only temporary as the width of proposed internal access roads will be reduced to approximately 6 - 8m for maintenance purposes during the operational phase. The required width and length of the expansion will be confirmed during the EIA process.</p>
<p>GN R. 984 Item 1: <i>The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more, excluding where such development of facilities or infrastructure is for photovoltaic installations and occurs –</i></p> <p><i>(a) within an urban area; or</i></p> <p><i>(b) on existing infrastructure.</i></p>	<p>It is proposed that a wind farm with an export capacity up to 235MW will be constructed.</p>
<p>GN R. 984 Item 15: <i>The clearance of an area of 20 hectares or more of indigenous vegetation, excluding where such clearance of indigenous vegetation is required for-</i></p> <p><i>(i) the undertaking of a linear activity; or</i></p> <p><i>(ii) maintenance purposes undertaken in accordance with a maintenance management plan.</i></p>	<p>The proposed development will transform more than 20 hectares of indigenous vegetation. Clearance will also be required for the proposed on-site substation, O&M building, internal access roads and other associated infrastructure.</p>

Please note that any authorisation that may result from this application will only cover activities specifically applied for. Co-ordinate points indicating the location of each listed activity must be provided with the relevant report (i.e. either BAR or EIR).

Please provide a project map indicating any sensitive areas (e.g. critical biodiversity area, World Heritage Site, etc.) overlaid by the study area in **Appendix 6**.

A project schedule, indicating the different phases and timelines of the project, must be attached as **Appendix 7**.

7. PUBLIC PARTICIPATION

Provide details of the public participation process proposed for the application as required by Regulation 41(2) of GN R .982, dated December 2014.

The public participation process was initiated in October 2016 with the issuing of the BID and initial landowner consultation. Site notices (as per regulations) were placed near the study area during a site visit undertaken from the 24th-28th of October 2016. Public notification of the EIA process will be advertised in a local/regional newspaper as required under the Environmental Impact Assessment (EIA) Regulations (2014).

The Information gathered on the initial site visit formed the basis of the database with surrounding landowner and other potential I&APs. Other important stakeholders (such as parastatals, municipalities and other governmental departments etc.) were identified that are relevant to the study area and included in the database. The I&AP database is a working database that allows potential I&APs identified throughout the Scoping and EIA Phase process to be added/removed.

The Draft Scoping Report (DSR) will be released for public review in early June 2017. Thirty (30) day review periods will be provided for general public and for authorities as required by the EIA Regulations (2014). During the review period of the Environmental Impact Assessment Report (DEIAR), meetings will be undertaken to present the proposed development to the public and solicit comments. One (1) Public Meeting and up to two (2) Focus Group Meetings will be undertaken during both the Environmental Impact Phase. Minutes of the meetings will be taken and distributed to the attendees for final comment. Once finalised, the minutes will be incorporated into the Final Environmental Impact Assessment Report (FEIAR). Full Comments and Responses Reports (C&RRs) will also be drafted to capture all comments received during the Scoping and Environmental Impact Phases. They will also be included into the FSR and FEIAR respectively.

Upon DEA accepted of the FSR and the Plan of Study for the Environmental Impact Phase is approved, an EIA Newsletter will be prepared and distributed. The EIA Newsletter will provide a brief overview of the Scoping Phase and provide an overview of the process to be followed during the Environmental Impact Phase.

The public participation process will come to a close for the proposed development when the decision on environmental authorisation (EA) is received and is made available to the public. All registered I&APs will be notified of the EA and appeal process.

8. OTHER AUTHORISATIONS REQUIRED

LEGISLATION	AUTHORISATION REQUIRED	APPLICATION SUBMITTED
SEMA's		
National Environmental Management: Air Quality Act	NO	NO
National Environmental Management: Biodiversity Act	YES - possibly	NO
National Environmental Management: Integrated Coastal Management Act	NO	NO
National Environmental Management: Protected Areas Act	NO	NO
National Environmental Management: Waste Act	NO	NO
National legislation		
Mineral Petroleum Development Resources Act	NO	NO
National Water Act	YES - possibly	NO
National Heritage Resources Act	YES - possibly	NO
Others: Please specify	NO	NO

If authorisation is necessary in terms of the National Environmental Management: Waste Act, please contact the Department for guidance on the **Integrated Permitting System**.

Note that in terms of sections 7B and 7C of the National Environmental Management: Integrated Coastal Management Act, 2008 (Act No. 24 of 2008) ICMA, a pre-approval for a reclamation application in terms of the ICMA should first be issued by the Minister prior to the submission of a NEMA Chapter 5 EA application to the NEMA competent authority (CA).

9. LIST OF APPENDICES

		SUBMITTED	
Appendix 1	Proof of Payment	YES	
Appendix 2	Strategic Infrastructure Projects		N/A
Appendix 3	List of Local Municipalities (with contact details)	YES	
Appendix 4	List of land owners (with contact details) and written consent of land owners.		N/A
Appendix 5	List of SGIDs		N/A
Appendix 6	Project map	YES	
Appendix 7	Project schedule	YES	
Appendix 8	Declaration of Applicant	YES	
Appendix 9	Declaration of EAP and undertaking under oath or affirmation	YES	

**APPENDIX 1
PROOF OF PAYMENT/ MOTIVATION FOR EXCLUSION**

Please note that South Africa Mainstream Renewable Power Developments (Pty) Ltd has appointed SiVEST SA (Pty) Ltd as the Environmental Assessment Practitioners for four (4) separate proposed Wind Farms near Loeriesfontein, Northern Cape Province (Namely Graskoppies, Hartebeest Leegte, Ithemba and Xha! Boom Wind Farms). As such four separate application payments are required for each project. However, SiVEST's accounts department accidentally assumed that since the money was going to the same Department that a bulk payment was necessary rather than four (4) separate individual payments. Therefore the reference numbers associated with the attached payment is incorrect. However the required amount for the applications associated with the four projects is correct and has been paid. Please see attached. Once this mistake was identified SiVEST contacted the DEA accounts department and were advised that we did not need to apply for the payments to be reversed and redo individual payments, but that we could rather explain what transpired and that the bulk payment of R40,000.00 covers the following applications:

- Proposed Construction of the Graskoppies Wind Farm near Loeriesfontein, Northern Cape Province
- Proposed Construction of the Hartebeest Leegte Wind Farm near Loeriesfontein, Northern Cape Province
- Proposed Construction of the Ithemba Wind Farm near Loeriesfontein, Northern Cape Province
- Proposed Construction of the Xha! Boom Wind Farm near Loeriesfontein, Northern Cape Province



NOTIFICATION OF PAYMENT

To whom it may concern:

First National Bank hereby confirms that the following payment has been made:

Date Actioned : 2017-01-30
Time Actioned : 18:18:56
Trace ID : XCCZB7CD02

Payer Details

Payment From : SIVEST SA (PTY) LTD
Amount : 40000.00

Payee Details

Recipient/Account no : ...240072
Recipient Name : DEPART OF ENV AFFAIR
Bank : ABSA Bank
Branch Code : 632005
Reference : SIVEST SA
Channel : INTERNET

END OF NOTIFICATION

To authenticate this Payment Notification please visit our website at <https://www.fnb.co.za>, click on Online Banking, select the "Verify Payment" option and follow the on-screen instructions

Our customer (the payer) has requested FirstRand Bank Limited to send this notification of payment to you. Should you have any queries regarding the contents of this notice, please contact the payer. FirstRand Bank Limited does not guarantee or warrant the accuracy and integrity of the information and data transmitted electronically and we accept no liability whatsoever for any loss, expense, claim or damage, whether direct, indirect or consequential, arising from the transmission of the information and data.

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FirstRand Bank Directors: LL Dippenaar (Chairman), JP Burger (CEO), VW Bartlett, AP Pullinger (Deputy CEO), MS Bomela, P Cooper (Alternate), JJ Durand, GG Gelink, PM Goss, NN Gwagwa, PK Harris, WR Jardine, HS Kellan, F Knoetze, RM Loubser, EG Matenge-Sebesho, PJ Makosholo, AT Nzimande, D Premnarayan (India), BJ van der Ross, JH van Greuning

First National Bank, a division of FirstRand Bank Limited. Reg.No.1929/001225/06.
An Authorised Financial Services and Credit Provider (NCRCP20).

**APPENDIX 2
STRATEGIC INFRASTRUCTURE PROJECTS**

NOT APPLICABLE

**APPENDIX 3 (IF APPLICABLE)
LIST OF LOCAL MUNICIPALITIES**

NOT APPLICABLE

**APPENDIX 4
LIST OF LAND OWNERS
WRITTEN CONSENT OF LAND OWNERS**

REMAINDER OF THE FARM HARTEBEEST LEEGTE NO. 216

Landowner:	Voordag Trust		
Contact person:	Herman Nel		
Postal address:	PO Box 71, Vredendal		
Postal code:	8160	Cell:	082 809 2040
Telephone:	027 213 2858	Fax:	N/A
E-mail:	desrtrose@nashuaisp.co.za		

LANDOWNER CONSENT FORM

ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF THE HARTEBEESTLEEGTE WIND FARM NEAR LOERIESFONTEIN, NORTHERN CAPE PROVINCE






Property Details:	Remainder of the Farm Hartebeest Leegte No 216
Registered Title Deed Owner	VOORDAG TRUST - 17101/97
Full name(s) & Surname of Owner/Occupier/Legal Representative of land:	HERMANUS ADRIAAN NEL
Identification Number:	660100 5009 08 4
Postal Address:	PO Box 71 VREDENDAL, 8160
Telephone Number:	027 - 213 2858
Fax Number:	
Cell Phone Number:	082 809 2040
E-mail Address:	desertrose@nashwaigp.co.za
SIGNATURE	HA. Nel.

**APPENDIX 5 (IF APPLICABLE)
LIST OF SGIDS / COORDINATES OF THE BOUNDARY OF THE PROPERTY OR PROPERTIES
(WHERE SGID AND FARM NAME ARE NOT AVAILABLE)**

NOT APPLICABLE

**APPENDIX 6
PROJECT MAP**

**PROPOSED
CONSTRUCTION OF THE
HARTEBEESTLEEGTE
WIND FARM
NEAR LOERIESFONTEIN
NORTHERN CAPE PROVINCE
SITE LOCALITY**

- Legend**
-  Local Municipal Boundaries
 -  Secondary Roads
 -  Local Access Roads
 -  Adjoining Farm Boundaries
 -  Hartebeestlegte Wind Farm Application Site

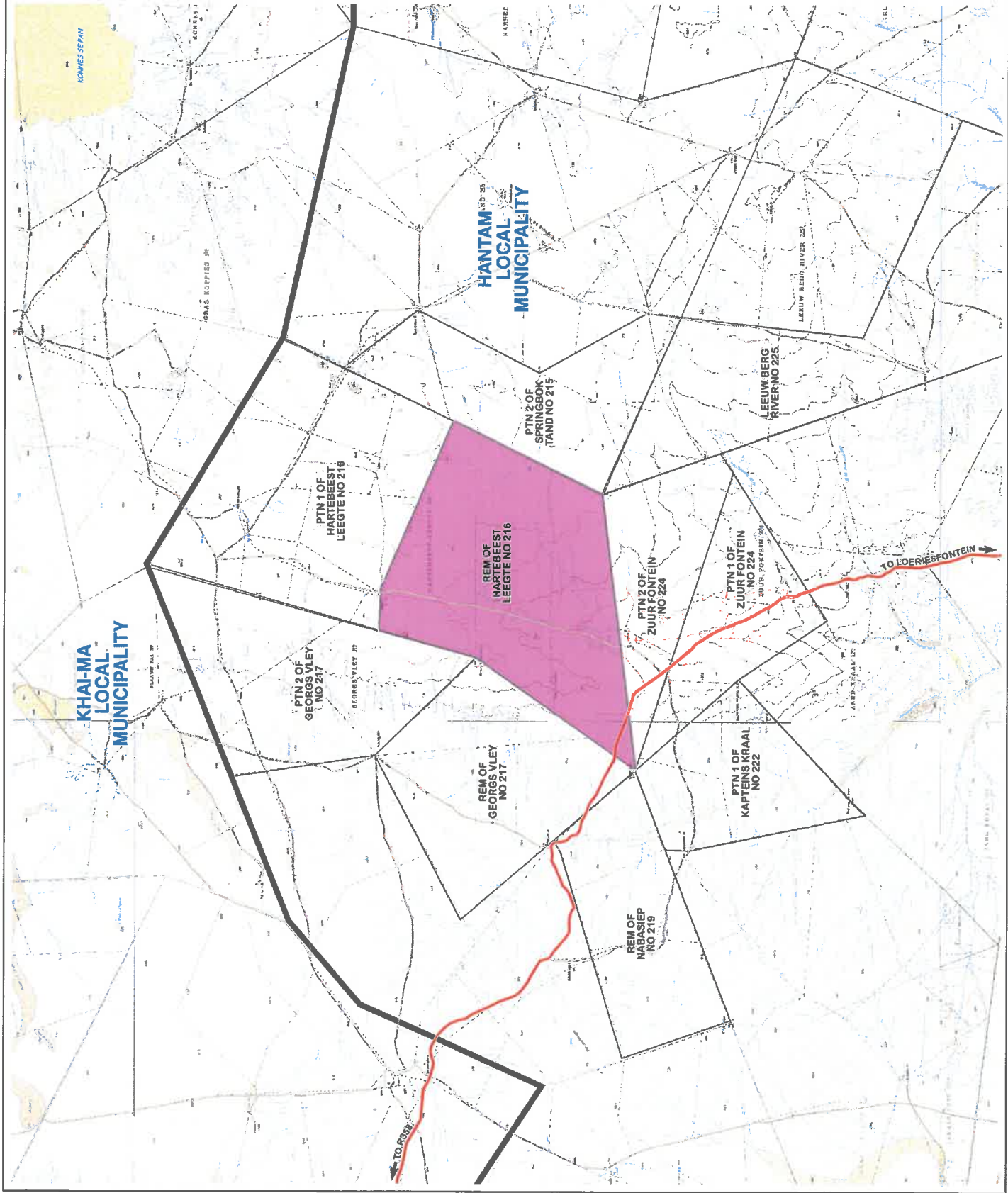
SOURCE: MUNICIPAL DEMARCATION BOARD, 2011



SIVEST
ENVIRONMENTAL DIVISION
111 WINDMILL ROAD
STYMONA 7530
NORTHERN CAPE PROVINCE
SOUTH AFRICA
Phone: +27 11 794 8090
Fax: +27 11 803 7972
Email: info@sivest.co.za

Project No	1022	Date	27/09/2016
Map Ref No	13022/SCC_H01	Revision	1
*COPYRIGHT IS VESTED IN SIVEST IN TERMS OF THE COPYRIGHT ACT (ACT 98 OF 1978) AND NO USE OR REPRODUCTION OR DUPLICATION IS PERMITTED WITHOUT THE WRITTEN CONSENT OF THE AUTHOR.			

THIS MAP HAS BEEN PREPARED UNDER THE CONTROLS ESTABLISHED BY THE SOUTH AFRICAN NATIONAL STANDARD WHICH HAS BEEN CERTIFIED ISO 9001:2008 COMPLIANT



**APPENDIX 7
PROJECT SCHEDULE**

**APPENDIX 8
DECLARATION OF THE APPLICANT**

I, **Michael Mangnall**, declare that –

- I am, or represent¹, the applicant in this application;
- I have appointed an Environmental Assessment Practitioner (EAP) to act as the independent EAP for this application / have obtained exemption from the requirement to obtain an EAP²;
- I will take all reasonable steps to verify whether the EAP and specialist/s appointed are independent and have expertise in conducting environmental impact assessments or undertaking specialist work as required, including knowledge of the Act, the EIA Regulations and any guidelines that have relevance to the proposed activity;
- I will provide the EAP and the competent authority with access to all information at my disposal that is relevant to the application;
- I will be responsible for the costs incurred in complying with the Regulations, including but not limited to –
 - costs incurred in connection with the appointment of the EAP or any person contracted by the EAP;
 - costs incurred in respect of the undertaking of any process required in terms of the Regulations;
 - costs in respect of any fee prescribed by the Minister or MEC in respect of the Regulations;
 - costs in respect of specialist reviews, if the competent authority decides to recover costs; and
 - the provision of security to ensure compliance with conditions attached to an environmental authorisation, should it be required by the competent authority;
- I will inform all registered interested and affected parties of any suspension of the application as well as of any decisions taken by the competent authority in this regard;
- I am responsible for complying with the conditions of any environmental authorisation issued by the competent authority;
- I hereby indemnify the Government of the Republic of South Africa, the competent authority and all its officers, agents and employees, from any liability arising out of the content of any report, any procedure or any action which the applicant or EAP is responsible for in terms of these Regulations;
- I will not hold the competent authority responsible for any costs that may be incurred by the applicant in proceeding with an activity prior to obtaining an environmental authorisation or prior to an appeal being decided in terms of these Regulations;
- I will perform all obligations as expected from an applicant in terms of the Regulations;
- all the particulars furnished by me in this form are true and correct; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in section 49B of the Act.
- I am aware that in terms of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no listed activity may commence prior to an environmental authorisation being granted by the Competent Authority.


Signature³ of the applicant/ Signature on behalf of the applicant

South African Mainstream Renewable Power Developments (Pty) Ltd

Name of company (if applicable)

20 June 2017
Date:

¹ If this is signed on behalf of the applicant, proof of such authority from the applicant must be attached. If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.

² If exemption is obtained from appointing an EAP, the responsibilities of an EAP will automatically apply to the person conducting the environmental impact assessment in terms of the Regulations.

³ Only original signatures will be accepted. No scanned, copied or faxed signatures will be accepted. An EAP may not sign on behalf of an applicant.

**APPENDIX 9
9.1 DECLARATION OF THE EAP**

I, **Andrea Gibb**, declare that –

- I act as the independent environmental assessment practitioner in this application;
- 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 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 will take into account, to the extent possible, the matters listed in Regulation 18 of the Regulations when preparing the application and any report relating to the application;
- 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, unless access to that information is protected by law, in which case it will be indicated that such information exists and will be provided to the competent authority;
- I will perform all obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I am aware of what constitutes an offence in terms of Regulation 48 and that a person convicted of an offence in terms of Regulation 48(1) is liable to the penalties as contemplated in section 49B 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:~~



Signature of the environmental assessment practitioner

SIVEST SA (Pty) Ltd


Name of company:

20 June 2017

Date

APPENDIX 9
9.2 UNDERTAKING UNDER OATH/ AFFIRMATION

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



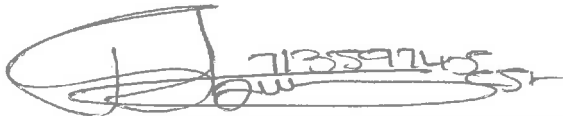
Signature of the environmental assessment practitioner

SIVEST SA (Pty) Ltd

Name of company

20/06/2017

Date



Signature of the commissioner of oaths

2017-06-20

Date

