



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

APPLICATION FORM FOR ENVIRONMENTAL AUTHORISATION

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

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

PROJECT TITLE

Eskom Distributed Battery Energy Storage System (BESS) Project (Ph 1) – Elandskop Substation, uMgungundlovu District Municipality

Indicate if the **DRAFT** report accompanies the application Yes
No

N.B. The Final BAR accompanies this application. This application has been updated based on comment received from DEA on 29/11/2019.

PRE-APPLICATION CONSULTATION

Was a pre-application meeting held	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Date of the pre-application meeting	05 July 2019			
Reference number of pre-application meeting held				
Was minutes compiled and submitted to the Department for approval	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

A copy of the pre-application meeting minutes must be appended to this application as **APPENDIX 1**.

Kindly note the following:

1. This form must always be used for applications that must be subjected to Basic Assessment or Scoping & Environmental Impact Reporting where this Department is the Competent Authority.
2. This application form is current as of **04 October 2019**. It is the responsibility of the Applicant / Environmental Assessment Practitioner (EAP) to ascertain whether subsequent versions of the form have been published or produced by the Competent Authority. The latest available Departmental templates are available at <https://www.environment.gov.za/documents/forms>.
3. The onus is on the Applicant/EAP to determine all applicable listed activities that would require Environmental Authorisation prior to the commencement of the construction activities. Should any revision of your development comprise any other activities that constitute a listed activity/ies as defined in Listing Notice 1, 2, or 3 of the EIA regulations, 2014 as amended, it must also form part of the Application for Environmental Authorisation.
4. An application fee is applicable (refer to **Section 2**). Proof of payment must accompany this application. The application will not be processed without proof of payment unless one of the exclusions provided for in the Fee Regulations is applicable AND such information in the exclusion section of this application form has been confirmed by this Department.
5. A cover letter on your company letterhead indicating the nature of this application must be appended to this form i.e. new application for Environmental Authorisation, updated application for Environmental Authorisation.
6. An electronic copy (in the form of a USB) of the signed application form must be submitted together with two hardcopies (one of which must contain the **original signatures** of both the Applicant and EAP).
7. This form must be marked "**for Attention: Chief Director: Integrated Environmental Authorisations**" and submitted to the Department at the postal or physical addresses contained in this form.

8. All documentation delivered to the physical address contained in this form must be delivered during the official Departmental Officer Hours which are visible on the Departmental gate.
9. All EIA related documents (includes application forms, reports or any EIA related submissions) that are faxed; emailed; delivered to Security or placed in the Departmental Tender Box will not be accepted, only hardcopy submissions are accepted.
10. The required information 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. A legible font type and size must be used when completing the form. The font size should not be smaller than 10pt (e.g. Arial 10).
11. Where applicable black out the boxes that are not applicable in the form.
12. The use of the phrase "not applicable" in the form must be done with circumspection. Where it is used in respect of material information that is required by the Competent Authority for assessing the application, this may result in the rejection of the application as provided for in the Regulations.
13. Unless protected by law, all information contained in and attached to this application, will become public information on receipt by the Competent Authority. Upon request during any stage of the application process, the Applicant / EAP must provide any registered interested and affected party with the information contained in and attached to this application.
14. 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.
15. Please note that this form must be copied to the relevant Provincial Environmental Department(s)
16. An application for Environmental Authorisation/Amendment lapses if the applicant fails to meet any of the timeframes prescribed in terms of the EIA Regulations, 2014, as amended.
17. An application for environmental authorisation must be accompanied by a report generated by the web based environmental screening tool (in Appendix 11). This has been stipulated as a requirement for the submission of applications for environmental assessment in the Environmental Impact Assessment Regulations. The Screening Tool allows for the generation of a Screening Report referred to in Regulation 16(1)(v) of the Environmental Impact Assessment Regulations 2014, as amended, whereby a Screening Report is required to accompany any application for Environmental Authorisation.

Departmental Details

Postal address:

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

Physical address:

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

Queries must be directed to the Directorate: Coordination, Strategic Planning and Support at:
 Email: EIAAdmin@environment.gov.za

1. COMPETENT AUTHORITY

Identified Competent Authority to consider the application:

Reason(s) in terms of S24C of NEMA:

National Department of Environmental Affairs (DEA)
In terms of Section 24C(2)(d)(i), the following applies: <i>"The Minister must be identified as the competent authority in terms of subsection (1) if the activity- (d) is undertaken, or is to be taken, by- (i) a national department</i>

2. FEES

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 of payment or a motivation for exclusions must be attached as **APPENDIX 2** of this application form.

Proof of payment	<input type="checkbox"/>
Exclusion applies	<input checked="" type="checkbox"/>

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	<input type="checkbox"/>
The applicant is an organ of state	<input checked="" type="checkbox"/>

FEE AMOUNT	Fee
Application for an environmental authorisation for which basic assessment is required in terms of the Environmental Impact Assessment Regulations	R2 000
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' banking details for the payment of application fees:

<p>Payment Enquiries: Email: eiafee@environment.gov.za</p> <p>Banking details: ABSA Bank Branch code: 632005 Account number: 1044 2400 72 Current account</p> <p>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>Status: Tax exempted</p>
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3. GENERAL INFORMATION

Name of the Applicant:	Eskom Holdings SOC Limited		
RSA Identity/ Passport Number:	Tshililo Reginah Nekhalale - 7706200569080		
Name of contact person for applicant (if other):	Mhleli Vezi		
RSA Identity/ Passport Number:	9104135854082		
Responsible position, e.g. Director, CEO, etc.:	Environmental Manager		
Company/ Trading name (if any):	Eskom Holdings SOC Limited		
Company Registration Number:	2002/015527/30		
BBBEE status:	State Owned Enterprise		
Physical address:	25 Valley View Road, New Germany, 3620, KwaZulu-Natal		
Postal address:	P.O. Box 66, New Germany		
Postal code:	3620	Cell:	071 319 0811
Telephone:	031 710 5689	Fax:	086 234 0627
E-mail:	VeziMM@eskom.co.za		

Name of the landowner:	Eskom Holdings SOC Limited		
Name of contact person for landowner (if other):	Mhleli Vezi		
Postal address:	P.O. Box 66, New Germany		
Postal code:	3620	Cell:	071 319 0811
Telephone:	031 710 5689	Fax:	086 234 0627
E-mail:	VeziMM@eskom.co.za		

Name of Person in control of the land:	Eskom Holdings SOC Limited		
Name of contact person for person in control of the land:	Mhleli Vezi		
Postal address:	P.O. Box 66, New Germany		
Postal code:	3620	Cell:	071 319 0811
Telephone:	031 710 5689	Fax:	086 234 0627
E-mail:	VeziMM@eskom.co.za		

In instances where there is more than one landowner, please attach a list of those landowners with their contact details as **APPENDIX 3**.

Unless the application is in respect of linear activities or Strategic Infrastructure Projects as contemplated in the Infrastructure Development Act (Act No. 23 of 2014), written consent of landowner/s must be submitted in **APPENDIX 3**.

The originally signed declaration undertaking by the applicant must be submitted as **APPENDIX 9**.

Provincial Environmental Authority:	Umgungundlovu District: Department of Economic Development, Tourism and Environmental Affairs		
Name of contact person:	Shawn Janneker		
Postal address:	Private Bag X07, Pietermaritzburg		
Postal code:	3202	Cell:	
Telephone:	033 347 1820	Fax:	033 347 1826
E-mail:	Shawn.Janneker@kznedtea.gov.za		

Local Municipality:	Msunduzi Local Municipality		
Name of contact person in (Environmental Section):	Kerina Singh		
Postal address:	Private Bag X321, Pietermaritzburg		
Postal code:	3200	Cell:	
Telephone:	033 392 3245	Fax:	
E-mail:	Kerina.singh@msunduzi.gov.za		

In instances where there is more than one Local/Provincial Authority involved, please attach a list of those Local/Provincial Authorities with their contact details as **APPENDIX 4**.

4. ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP) INFORMATION

Company of Environmental Assessment Practitioner:	1World Consultants (Pty) Ltd		
B BBEE	Contribution level (indicate 1 to 8 or non-compliant)	1	Percentage Procurement recognition 135%
EAP name:	Fatima Peer		
EAP Qualifications:	BSc. Hons		
Professional affiliation/registration:	SACNASP (Membership No. 400287/11) IAIAsa (Membership No. 3974)		
Physical address:	181 Winchester Drive, Reservoir Hills, Durban, 4091		
Postal address:	P.O Box 2311, Westville		
Postal code:	3630	Cell:	061 514 5942
Telephone:	031 262 8327	Fax:	086 726 3619
E-mail:	fatima@1wc.co.za		

The appointed EAP must meet the requirements of Regulation 13 of the EIA Regulations, 2014 as amended. 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 10**.

5. PROJECT DESCRIPTION

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

Eskom Distributed Battery Energy Storage System (BESS) Project (Ph 1)

1. Introduction

Eskom Holdings SOC Limited has identified distributed storage as an alternative to support renewable energy expansion in South Africa.

Electricity generation from renewable sources is limited by the intermittency and variability of wind and solar resources, i.e. when wind blows and sun shines. Energy storage allows for the storing of electricity for later use even when the renewable resource is unavailable. The process involves the conversion of electrical energy into another form of energy such as chemical or kinetic energy, store it temporarily and then converted back to electrical energy, therefore giving the utility considerable flexibility and control.

The Distributed Battery Storage with Distributed Photo Voltaic (PV) project will directly contribute towards the following three (3) Eskom's strategic objectives:

- Ensure reliable supply of electricity to all South Africans;
- Securing adequate future electricity supply at the optimal cost of renewable energy for South Africa; and
- Directly and indirectly supporting the socio-economic development objectives of South Africa.

Eskom will be faced with massive loan recalls and contract penalties if this project does not go-ahead. The World Bank and co-financiers approved distributed battery energy storage and Solar PV as an alternative to support renewable energy expansion in South Africa and to replace the terminated Kiwano CSP 100MW project. The Kiwano CSP (Concentrating Solar Power) plant project has been deemed too expensive to consider at this stage.

Given the global trends in the application of BESS to support National Electricity Grids, significant and scalable benefit can be derived in developing this technology application for South Africa.

2. Project Description and Scope of Work

The Elandskop Substation was noted to have sufficient space to accommodate BESS. No acquisition of land and rezoning is required. Network simulations informed the selection of the Elandskop substation. The criteria are as follows:

- Network simulations identified constrained distribution feeders where BESS can provide a solution;
- Ownership of the property (Eskom Owned);
- Proximity of load customers to existing or confirmed future renewable generators (IPPs);
- Availability of sufficient Medium Voltage connection capacity for the BESS; and
- Availability of sufficient space at the substation for installation of the BESS containers.

The work shall comply with the requirements of ISO 14001 and all applicable National, Provincial and Municipal environmental legislation, ordinances and municipal bylaws. The work must further comply with all relevant Eskom environmental directives, standards and procedures, in particular:

- An independent Environmental Assessment Practitioner (EAP) is required to:
 - To confirm the activities listed below and conduct a Basic Assessment process and apply to DEA on Eskom's behalf for Environmental Authorisation;
 - Apply for Environmental Authorisation for activities identified that may be triggered in all the identified Eskom Substations;
 - Applicability to National Waste Act, listed activities must be confirmed with DEA; and
 - Attendance to any internal or external meetings.

This will necessitate site visits and specialist walkthroughs where on-site description or explanation is necessary.

3. Technology Alternatives

Eskom is considering several BESS technology alternatives for battery storage at the substations; some are solid state batteries and others are flow batteries.

a. Solid State Batteries comprise of:

Lithium-ion, approximately 4.08 Cubic Meters per 1MWh (Exact amount of hazardous substance is unknown at this stage and will differ from supplier to supplier).



Figure 2: Lithium-ion Power Pack Units

b. Flow Batteries comprise of:

Vanadium Redox (52500 litres per 1 MWh) and Zinc Bromide (1700 litres per pod; 13.6 Cubic Meters per 1MWh).

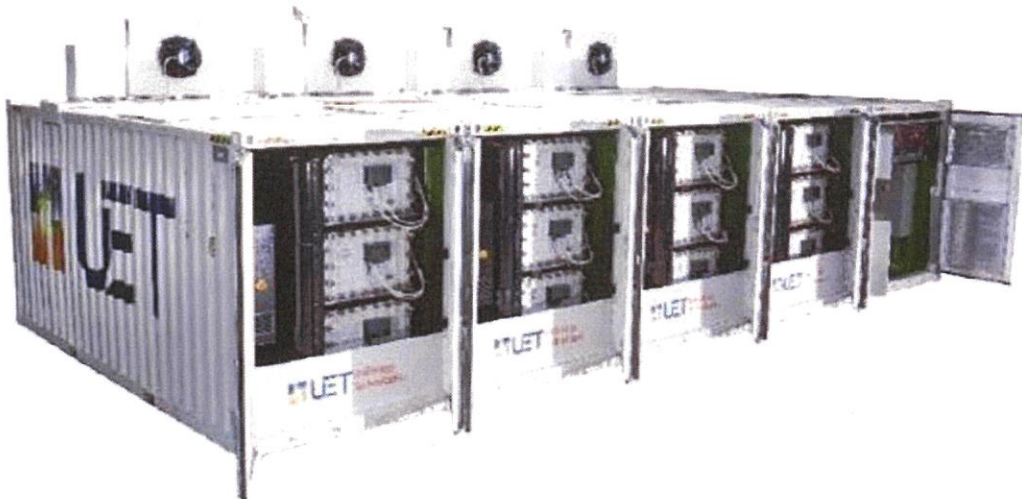


Figure 1: Flow Battery - Vanadium Redox Battery



Figure 3: Flow Battery - Zinc Bromide

A single battery technology, or a combination of two or more technology alternatives, may be implemented at each site. The chemical composition of the batteries can be dangerous and hazardous and listed in SANS10234.

Eskom does not anticipate exporting any hazardous waste for any of the technologies. The Lifecycle of the technologies vary from 10 to 25 years.

4. Associated Activities and Infrastructure

- i. Network integration equipment such as power cables, control cables, isolators, circuit breakers, transformers, etc. will be required to connect the new BESS to existing infrastructure at the substations. Each site may also require additional fencing, security equipment, lighting, masts and/or control room upgrades.
- ii. Construction of platforms for BESS (compacted fill, earth protection layer and stone chip) to accommodate the BESS containers. Cable trenches to connect BESS to grid.
- iii. New access roads or upgrade of existing access roads to the substations to ensure easy access specifically for low-bed and crane trucks during construction to deliver and install the BESS containers onto the platform.
- iv. Temporary laydown areas and site camp will be required at each of the sites during construction.
- v. Stormwater measures on site to divert storm water away from the BESS containers.

Does the project form part of a Renewable Energy Development Zone (REDZ) as per GN 114?		NO	✓
Does the project form part of an Electricity Grid Infrastructure (EGI) as per GN 113?		NO	✓
Does the project form part of any of the Strategic Infrastructure Projects (SIPs) as described in the National Development Plan, 2011?		NO	✓

If **YES**, is selected:

- For an application in terms of GN 113 and/or 114, then a map confirming this must be attached;
- For a SIP project, kindly indicate which SIPs are applicable in **APPENDIX 5**. You are also required to provide confirmation of SIP applications from the relevant sector representative which must be attached in **APPENDIX 5**. Should no proof be provided, the application will be considered as a normal EIA Application.

Please indicate which sector the project falls under by ticking the relevant block in the table below:

Table 1: National Sector Classification in terms of Regulation 9 of the EIA Regulations, 2014 as amended

1	Infrastructure /Transport Services/Roads - Public		42	Services/Waste Management Services/Disposal facilities - General	
2	Infrastructure /Transport Services/Roads - Private		43	Services/Waste Management Services/Treatment facilities - Hazardous	
3	Infrastructure /Transport Services/Rail - Public		44	Services/Waste Management Services/Treatment facilities - General	
4	Infrastructure /Transport Services/Rail - Private		45	Services/Waste Management Services/Storage Facilities - General	
5	Infrastructure /Transport Services/Airport/Runways/Landing Strip/Helipad - Commercial		46	Services/Waste Management Services/Storage Facilities - Hazardous	
6	Infrastructure /Transport Services/Airport/Runways/Landing Strip/Helipad - Private		47	Services/Waste Management Services/Storage Facilities - Nuclear	
7	Infrastructure /Transport Services/Airport/Runways/Landing Strip/Helipad - Public Services		48	Services/Burial and cemeteries - Cemeteries	
8	Infrastructure /Transport Services - Ports		49	Services/Burial and cemeteries - Cremators	
9	Infrastructure /Transport Services - Inland Waterways		50	Services/Water services/Storage - Dams	
10	Infrastructure /Transport Services - Marina		51	Services/Water services/Storage - Reservoirs	
11	Infrastructure /Transport Services - Canal		52	Services/Water services - Desalination	
12	Infrastructure /Localised infrastructure - Infrastructure in the Sea/Estuary/Littoral Active Zone/Development Setback/100M Inland/or coastal public property.		53	Services/Water services - Treatment & Waste Water	
13	Infrastructure /Localised infrastructure - Zip Lines & Foefie Slides		54	Services - Hospitality	
14	Infrastructure /Localised infrastructure - Cableway or Funiculars		55	Mining - Prospecting rights	

15	Infrastructure /Localised infrastructure - Billboards		56	Mining - Mining Permit	
16	Infrastructure /Localised infrastructure/Storage/Dangerous Goods/Hydrocarbon - Gas		57	Mining - Mining Right	
17	Infrastructure /Localised infrastructure/Storage/Dangerous Goods/Hydrocarbon - Petroleum		58	Mining/Exploration Right - Gas or Oil Marine	
18	Infrastructure /Localised infrastructure/Storage/Dangerous good – Chemicals	✓	59	Mining/Exploration Right - Gas or Oil Terrestrial	
19	Utilities Infrastructure/Pipelines/water - Fresh/Storm Water		60	Mining/Production Right - Gas or Oil Marine	
20	Utilities Infrastructure/Pipelines/water - Waste Water		61	Mining/Production Right - Gas or Oil Terrestrial	
21	Utilities Infrastructure/Pipelines/Dangerous Goods - Chemicals		62	Mining/Underground gasification of coal - Oil	
22	Utilities Infrastructure/Pipelines/Hydrocarbon – Petroleum		63	Mining/Beneficiation - Hydrocarbon	
23	Utilities Infrastructure/Pipelines/Hydrocarbon - Gas		64	Mining/Beneficiation - Mineral	
24	Utilities Infrastructure/Telecommunications/ Radio Broadcasting - Tower		65	Agriculture/Forestry/ Fisheries - Crop Production	
25	Utilities Infrastructure/Telecommunications/ Radio Broadcasting - Mast		66	Agriculture/Forestry/ Fisheries - Animal Production	
26	Utilities Infrastructure/Telecommunications/ Radio Broadcasting - Receivers		67	Agriculture/Forestry/ Fisheries - Afforestation	
27	Utilities Infrastructure - Marine Cables		68	Agriculture/Forestry/ Fisheries/Aquaculture/Inland- Alien	
28	Utilities Infrastructure/Electricity /Generation/Non Renewable/Hydrocarbon - Petroleum		69	Agriculture/Forestry/ Fisheries/Aquaculture/Inland- Indigenous	

29	Utilities Infrastructure/Electricity /Generation/Non Renewable/Hydrocarbon - Coal		70	Agriculture/Forestry/ Fisheries/Aquaculture/Marine - Alien	
30	Utilities Infrastructure/Electricity /Generation/Non Renewable - Nuclear		71	Agriculture/Forestry/ Fisheries/Aquaculture/Marine - Indigenous	
31	Utilities Infrastructure/Electricity /Generation/Renewable - Hydro		72	Agriculture/Forestry/ Fisheries - Agro-Processing	
32	Utilities Infrastructure/Electricity /Generation/Renewable/Solar - PV		73	Transformation of land - Indigenous vegetation	
33	Utilities Infrastructure/Electricity /Generation/Renewable/Solar - CSP		74	Transformation of land - From open space or Conservation	
34	Utilities Infrastructure/Electricity /Generation/Renewable - Wind		75	Transformation of land - From agriculture or afforestation	
35	Utilities Infrastructure/Electricity /Generation/Renewable - Biomass/ biofuels		76	Transformation of land - From mining or heavy industrial areas	
36	Utilities Infrastructure/Electricity /Generation/Renewable - Wave		77	Any activities within or close to a watercourse	
37	Utilities Infrastructure/Electricity /Distribution and Transmission - Power line		78	Any activity in an estuary, on the seashore, in the littoral active zone, or in the sea.	
38	Utilities Infrastructure/Electricity /Distribution and Transmission – Substation	✓	79	Activity requiring permit or licence in terms of National or Provincial legislation governing the release or generation of emissions - Emissions	
39	Utilities Infrastructure/Gas /Distribution and Transmission – Compressor Station		80	Activity requiring permit or licence - Marine Effluent	
40	Services/Waste Management Services/Disposal facilities - Hazardous		81	Activity requiring permit or licence - Fresh Water Effluent	
82	Release of Genetically Modified Organisms				

Table 1

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 thereof:		
Not Applicable		

6. SITE DESCRIPTION

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

Province/s	KwaZulu-Natal																							
District Municipality/ies	uMgungundlovu District Municipality																							
Local Municipality/ies	Impendle & Msunduzi Local Municipalities																							
Ward number/s	4 & 8																							
Nearest town/s	Emaswazini and Howick																							
Farm name/s and number/s	<table border="1"> <thead> <tr> <th>Farm Name</th> <th>Farm/Erf Number</th> <th>Portion</th> </tr> </thead> <tbody> <tr> <td>Zwaart Kop Native Location</td> <td>4669</td> <td>00000</td> </tr> <tr> <td>Van Vuuren's Post</td> <td>942</td> <td>00000</td> </tr> <tr> <td>Calderwood</td> <td>1946</td> <td>00000</td> </tr> <tr> <td>Calderwood</td> <td>1946</td> <td>00005</td> </tr> <tr> <td>Zwaart Kop Native Location</td> <td>4669</td> <td>00000</td> </tr> <tr> <td>Van Vuuren's Post</td> <td>942</td> <td>00005</td> </tr> </tbody> </table>			Farm Name	Farm/Erf Number	Portion	Zwaart Kop Native Location	4669	00000	Van Vuuren's Post	942	00000	Calderwood	1946	00000	Calderwood	1946	00005	Zwaart Kop Native Location	4669	00000	Van Vuuren's Post	942	00005
Farm Name				Farm/Erf Number	Portion																			
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Zwaart Kop Native Location				4669	00000																			
Van Vuuren's Post	942	00005																						
Portion number/s																								

Surveyor General 21 digit code:

(If there are more than 4, please attach a list with the rest of the codes as **APPENDIX 6**. 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 6**.)

N	0	F	T	0	0	0	0	0	0	0	0	4	6	6	9	0	0	0	0	0
N	0	F	T	0	0	0	0	0	0	0	0	0	9	4	2	0	0	0	0	0
N	0	F	T	0	0	0	0	0	0	0	0	1	9	4	6	0	0	0	0	0
N	0	F	T	0	0	0	0	0	0	0	0	1	9	4	6	0	0	0	0	0
N	0	F	T	0	0	0	0	0	0	0	0	4	6	6	9	0	0	0	0	0
N	0	F	T	0	0	0	0	0	0	0	0	0	9	4	2	0	0	0	0	0
1	2			3			4					5								

Locality map:	<p>A locality map must be attached to the application form, as APPENDIX 7. The scale of the locality map must be at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map. The map must include the following:</p> <ul style="list-style-type: none"> • an accurate indication of the project site position as well as the positions of the alternative sites, if any; • road names or numbers of all the major roads as well as the roads that provide access to the site(s) • a north arrow; • a legend; • the prevailing wind direction; • site sensitivities, including but not limited to vegetation, wetlands, watercourses, heritage sites, critical biodiversity area/s, World Heritage Site, etc. and it must be overlaid by the study area; and • GPS co-ordinates (Indicate the position of the proposed activity with the latitude and longitude at the centre point for each alternative site. The co-ordinates should be in degrees and decimal minutes. The minutes should be to at least three decimal places. The projection that must be used in all cases is the WGS-84 spheroid in a national or local projection)
Project Plan (e.g. Gantt chart)	<p>A project schedule must be submitted as APPENDIX 8, and must include milestones for:</p> <ul style="list-style-type: none"> • public participation (dates for advertisements, workshops and other meetings, obtaining comment from organs of state including state departments); • the commencement of parallel application processes required in terms of other statutes and where relevant, the alignment of these application processes with the EIA process; • the submission of the key documents (e.g. Basic Assessment Report, Scoping Reports, EIA

	<p>Reports and Environmental Management Programmes).</p> <p>Note: All the above dates must take into account the statutory timeframes for authority responses that are stipulated in the 2014 NEMA EIA Regulations. Possible appeals may impact on project timeframes/milestones. Regulation 45 states that "An application in terms of these Regulations lapses, and a competent authority will deem the application as having lapsed, if the applicant fails to meet any of the time-frames prescribed in terms of these Regulations, unless extension has been granted in terms of regulation 3(7)." It is recommended that the Department be approached for guidance on the process to be followed, prior to submitting an application.</p>
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7. ACTIVITIES APPLIED FOR

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 provided below.

Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 1 of the EIA Regulations, 2014 as amended	Describe the portion of the proposed project to which the applicable listed activity relates.
14	The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres.	<p>The Battery is not regarded as a facility or infrastructure for the storage, or storage and handling of a dangerous good, there may indeed be instances where a battery is not fully assembled and the electrolyte (or substances making up such electrolyte) intended for such battery, may potentially be stored on site, in a container (e.g. tanks), prior to filling. In this instance, where the electrolyte, or the substances making up the electrolyte, are stored in a container, such facility or infrastructure will indeed be regarded as a facility or infrastructure for the storage, or storage and handling of a dangerous good, for the purposes of the Regulations, as these would have as its purpose then, not the storage of energy, but indeed the storage of that substance (if indeed a dangerous good).</p> <p>A letter was received by Eskom (Mr Prince Moyo), confirming the applicability of Listed and specified activities which relate to the development and related operation of facilities or infrastructure, for the storage, or storage and handling of a dangerous good. The letter can be reviewed under Appendix C of the Final BAR.</p>
Activity No(s):	Provide the relevant Scoping and EIA Activity(ies) as set out in Listing Notice 2 of the EIA Regulations, 2014 as amended	Describe the portion of the proposed project to which the applicable listed activity relates.
Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3 of the EIA Regulations, 2014 as amended	Describe the portion of the proposed project to which the applicable listed activity relates.

Please note that any authorisation that may result from this application will only cover activities specifically applied for. Only those activities listed above shall be considered for authorisation. The onus is on the applicant to ensure that all applicable listed activities are included in the application. Environmental Authorisation must be obtained prior to commencement with each applicable listed activity.

Coordinate points indicating the location of each listed activity must be provided as part of **APPENDIX 6** as well part of the reports to be submitted. Coordinates must be provided in degrees, minutes and seconds using the Hartebeesthoek94 WGS84 co-ordinate system.

8. PUBLIC PARTICIPATION

Provide details of the public participation process proposed for the application as required by Regulation 41(2) of the EIA Regulations, 2014 as amended.

8.1. Written Notifications:

Interested and Affected Parties (I&APs) were identified and notified of the Basic Assessment. A Background Information Document (BID) was prepared and distributed via email. The BID provided information on the proposed development, the site and on the process to be followed by the EAP.

8.2. Newspaper Advertisement:

Newspaper advertisements were published to inform the public of the BA Process. The advertisements were published in English and IsiZulu in The KZN Post Newspaper on Thursday, 14/11/2019.

8.3. Site Notice Boards:

Site notice boards were erected on the site and in surrounding areas on 19/11/2019. As per Chapter 6, Regulation 41(4)(a) of 2017, the size of the notice boards was approximately 60cm by 42cm (size A2). The notice boards were provided in English and IsiZulu with illustrations of the property. The purpose of the notice board was to inform the community members of the ongoing BA Application and the proposed development. Details of the EAP were also provided to facilitate public participation.

8.4. Public Meeting:

Public Meetings are held only if requested. No public meetings have been requested nor required following distribution of the BID, publication of the advertisement, erection of the site notice boards and distribution and conclusion of the 30-day commenting period.

9. OTHER AUTHORISATIONS REQUIRED

Are there any other applications for Environmental Authorisation on the same property?		NO ✓
If YES, please indicate the following:		
Competent Authority	Not Applicable	
Application Reference Number	Not Applicable	
Project Name	Not Applicable	
Please provide details of the steps taken to ascertain this information.		
The information was verified with the Project Manager and Client team i.e. Eskom Holdings SOC Limited.		

IF YES IS SELECTED, PLEASE ATTACH OTHER AUTHORISATIONS ISSUED.

Applications in terms of the National Environmental Management Act ("NEMA") & specific environmental management Acts ("SEMAS"):

LEGISLATION	AUTHORISATION REQUIRED	APPLICATION SUBMITTED
Is Section 50(5) of the National Environmental Management: Protected Areas Act applicable to your proposed development? (The proposed development is within a proclaimed protected area as defined the Act.)	NO	NO
National Water Act (Act No. 36 of 1998)	YES	NO
National Environmental Management: Air Quality Act (Act No. 39 of 2004)	NO	NO
National Environmental Management: Biodiversity Act (Act No. 10 of 2004)	NO	NO
National Environmental Management: Integrated Coastal Management Act (Act No. 24 of 2008)	NO	NO
National Environmental Management: Protected Areas Act (Act No. 57 of 2003)	NO	NO
National Environmental Management: Waste Act (Act No. 59 of 2008)	NO	NO
Others: Please specify		

Please be advised that:

- If a Waste Management license is required in terms of the National Environmental Management: Waste Act, please contact the Department for guidance on the **Integrated Permitting System**. **An IPS application can only be lodged with this Department in the event that this Department is the Competent Authority for both the EIA and Waste related activities;**
- If Sections 7B and 7C of the National Environmental Management: Integrated Coastal Management Act is applicable to your proposed development, you are required to obtain pre-approval for a reclamation application prior to an Application for Environmental Authorisation being lodged with the Competent Authority;
- If Section 50(5) of the National Environmental Management: Protected Areas Act is applicable to your proposed development, you are required to obtain approval from the Management Authority prior to an Application for Environmental Authorisation being lodged with the Competent Authority; and
- If Section 38 of the National Heritage Resources Act (Act No. 25 of 1999) is applicable to your proposed development, you are requested to submit the Notice of Intent form to the relevant SAHRA or a Provincial Heritage Resources Authority and attach a copy to this form. If it is indicated that a Heritage Impact Assessment will be required, the Heritage Impact Assessment must be undertaken as one of the specialist studies of the EIA process to be undertaken in terms of the NEMA EIA Regulations, 2014, as amended.

10. LIST OF APPENDICES

		SUBMITTED	
APPENDIX 1	Copy of the pre-application meeting minutes	YES	
APPENDIX 2	Proof of Payment / Motivation for exclusion	YES	
APPENDIX 3	List of land owners (with contact details) and written consent of land owners.		NO
APPENDIX 4	List of Local/Provincial Authority involved (with contact details)		NO
APPENDIX 5	Strategic Infrastructure Projects		NO
APPENDIX 6	List of SGIDs and coordinates		NO
APPENDIX 7	Locality map	YES	
APPENDIX 8	Project schedule	YES	
APPENDIX 9	Declaration of Applicant	YES	
APPENDIX 10	Declaration of EAP and undertaking under oath or affirmation	YES	
APPENDIX 11	Screening Tool Report	YES	
APPENDIX 12	Undertaking under Oath / Affirmation	YES	

APPENDIX 1
COPY OF THE PRE-APPLICATION MEETING MINUTES

APPENDIX 2
PROOF OF PAYMENT/ MOTIVATION FOR EXCLUSION

APPENDIX 3
LIST OF LAND OWNERS
WRITTEN CONSENT OF LAND OWNERS

APPENDIX 4
LIST OF LOCAL/PROVINCIAL AUTHORITY INVOLVED

**APPENDIX 5
STRATEGIC INFRASTRUCTURE PROJECTS**

<p>SIP 1: Unlocking the northern mineral belt with Waterberg as the catalyst</p> <ul style="list-style-type: none"> • Unlock mineral resources • Rail, water pipelines, energy generation and transmission infrastructure • Thousands of direct jobs across the areas unlocked • Urban development in Waterberg - first major post-apartheid new urban centre will be a "green" development project • Rail capacity to Mpumalanga and Richards Bay • Shift from road to rail in Mpumalanga • Logistics corridor to connect Mpumalanga and Gauteng. 	
<p>SIP 2: Durban-Free State-Gauteng logistics and industrial corridor</p> <ul style="list-style-type: none"> • Strengthen the logistics and transport corridor between SA's main industrial hubs • Improve access to Durban's export and import facilities • Integrate Free State Industrial Strategy activities into the corridor • New port in Durban • Aerotropolis around OR Tambo International Airport. 	
<p>SIP 3: South-Eastern node & corridor development</p> <ul style="list-style-type: none"> • New dam at Mzimvubu with irrigation systems • N2-Wild Coast Highway which improves access into KwaZulu-Natal and national supply chains • Strengthen economic development in Port Elizabeth through a manganese rail capacity from Northern Cape • A manganese sinter (Northern Cape) and smelter (Eastern Cape) • Possible Mthombo refinery (Coega) and transshipment hub at Ngqura and port and rail upgrades to improve industrial capacity and performance of the automotive sector. 	
<p>SIP 4: Unlocking the economic opportunities in North West Province</p> <ul style="list-style-type: none"> • Acceleration of investments in road, rail, bulk water, water treatment and transmission infrastructure • Enabling reliable supply and basic service delivery • Facilitate development of mining, agricultural activities and tourism opportunities • Open up beneficiation opportunities in North West Province. 	
<p>SIP 5: Saldanha-Northern Cape development corridor</p> <ul style="list-style-type: none"> • Integrated rail and port expansion • Back-of-port industrial capacity (including an IDZ) • Strengthening maritime support capacity for oil and gas along African West Coast • Expansion of iron ore mining production and beneficiation. 	
<p>SIP 6: Integrated municipal infrastructure project</p> <p>Develop national capacity to assist the 23 least resourced districts (19 million people) to address all the maintenance backlogs and upgrades required in water, electricity and sanitation bulk infrastructure. The road maintenance programme will enhance service delivery capacity thereby impacting positively on the population.</p>	
<p>SIP 7: Integrated urban space and public transport programme</p> <p>Coordinate planning and implementation of public transport, human settlement, economic and social infrastructure and location decisions into sustainable urban settlements connected by densified transport corridors. This will focus on the 12 largest urban centres of the country, including all the metros in South Africa. Significant work is underway on urban transport integration.</p>	
<p>SIP 8: Green energy in support of the South African economy</p> <p>Support sustainable green energy initiatives on a national scale through a diverse range of clean energy options as envisaged in the Integrated Resource Plan (IRP2010) and support bio-fuel production facilities.</p>	

Indicate capacity in MW:	
<p>SIP 9: Electricity generation to support socioeconomic development Accelerate the construction of new electricity generation capacity in accordance with the IRP2010 to meet the needs of the economy and address historical imbalances. Monitor implementation of major projects such as new power stations: Medupi, Kusile and Ingula.</p>	
Indicate capacity in MW:	
<p>SIP 10: Electricity transmission and distribution for all Expand the transmission and distribution network to address historical imbalances, provide access to electricity for all and support economic development. Align the 10-year transmission plan, the services backlog, the national broadband roll-out and the freight rail line development to leverage off regulatory approvals, supply chain and project development capacity.</p>	
<p>SIP 11: Agri-logistics and rural infrastructure Improve investment in agricultural and rural infrastructure that supports expansion of production and employment, small-scale farming and rural development, including facilities for storage (silos, fresh-produce facilities, packing houses); transport links to main networks (rural roads, branch train-line, ports), fencing of farms, Irrigation schemes to poor areas, improved R&D on rural issues (including expansion of agricultural colleges), processing facilities (abattoirs, dairy infrastructure), aquaculture incubation schemes and rural tourism infrastructure.</p>	
<p>SIP 12: Revitalisation of public hospitals and other health facilities Build and refurbish hospitals, other public health facilities and revamp 122 nursing colleges. Extensive capital expenditure to prepare the public healthcare system to meet the requirements of the National Health Insurance (NHI) system. The SIP contains major builds for 6 hospitals.</p>	
<p>SIP 13: National school build programme A national school build programme driven by uniformity in planning, procurement, contract management and provision of basic services. Replace inappropriate school structures and address basic service backlog and provision of basic services under the Accelerated School Infrastructure Delivery Initiative (ASIDI). In addition, address national backlogs in classrooms, libraries, computer labs and admin buildings. Improving the learning environment will strengthen outcomes especially in rural schools, as well as reduce overcrowding.</p>	
<p>SIP 14: Higher education infrastructure Infrastructure development for higher education, focusing on lecture rooms, student accommodation, libraries and laboratories, as well as ICT connectivity. Development of university towns with a combination of facilities from residence, retail to recreation and transport. Potential to ensure shared infrastructure such as libraries by universities, FETs and other educational institutions. Two new universities will be built - in Northern Cape and Mpumalanga.</p>	
<p>SIP 15: Expanding access to communication technology Provide for broadband coverage to all households by 2020 by establishing core Points of Presence (POPs) in district municipalities, extend new Infracore fibre networks across provinces linking districts, establish POPs and fibre connectivity at local level, and further penetrate the network into deep rural areas. While the private sector will invest in ICT infrastructure for urban and corporate networks, government will co-invest for township and rural access, as well as for e-government, school and health connectivity. The school roll-out focus is initially on the 125 Dinaledi (science and maths-focussed) schools and 1525 district schools. Part of digital access to all South Africans includes TV migration nationally from analogue to digital broadcasting.</p>	
<p>SIP 16: SKA & Meerkat SKA is a global mega-science project, building an advanced radio-telescope facility linked to research infrastructure and high-speed ICT capacity and provides an opportunity for Africa and South Africa to contribute towards global advanced science projects.</p>	
<p>SIP 17: Regional integration for African cooperation and development Participate in mutually beneficial infrastructure projects to unlock long-term socio-economic benefits by partnering with fast growing African economies with projected growth ranging between 3% and 10%.</p>	

<p>The projects involving transport, water and energy also provide competitively-priced, diversified, short and medium to long-term options for the South African economy where, for example, electricity transmission in Mozambique (Cesul) could assist in providing cheap, clean power in the short-term whilst Grand Inga in the DRC is long-term. All these projects complement the Free Trade Area (FTA) discussions to create a market of 600 million people in South, Central and East Africa.</p>	
<p>SIP 18: Water and sanitation infrastructure A 10-year plan to address the estimated backlog of adequate water to supply 1.4m households and 2.1m households to basic sanitation. The project will involve provision of sustainable supply of water to meet social needs and support economic growth. Projects will provide for new infrastructure, rehabilitation and upgrading of existing infrastructure, as well as improve management of water infrastructure</p>	

PLEASE ATTACH PROOF FROM THE RELEVANT SIP CO-ORDINATOR FOR EACH OF THE SIP PROJECT SELECTED.

APPENDIX 6
LIST OF SGIDS / COORDINATES OF THE BOUNDARY OF THE PROPERTY OR PROPERTIES / COORDINATES
OF LISTED ACTIVITIES

**APPENDIX 7
LOCALITY MAP**

APPENDIX 8
PROJECT SCHEDULE

APPENDIX 9
DECLARATION OF THE APPLICANT

I, Tshililo Nelchatale, 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, as amended (Act No. 107 of 1998) that no listed activity may commence prior to an environmental authorisation being granted by the Competent Authority.

Nelchatale T.

Signature³ of the applicant/ Signature on behalf of the applicant

Eskom Holdings Soc Limited

Name of company (if applicable)

26 February 2020

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.

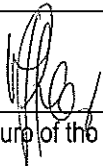
**APPENDIX 10
DECLARATION OF THE EAP**

I, **Fatima Peer**, 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 13 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

1World Consultants (Pty) Ltd

Name of company:

Date

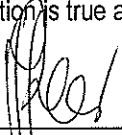
24/09/2020

Date

**APPENDIX 11
SCREENING TOOL REPORT**

APPENDIX 12
UNDERTAKING UNDER OATH/ AFFIRMATION

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

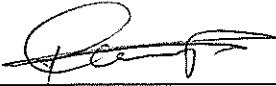


Signature of the Environmental Assessment Practitioner

1World Consultants (Pty Ltd
Name of Company

2020-02-24

Date



Signature of the Commissioner of Oaths

2020-02-24

Date

