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DFFE Reference: 14/12/16/3/3/2/2533 Enquiries: Ms Constance Musemburi

Telephone: (012) 399 9416 E-mail: CMusemburi@dffe.gov.za

Mr. Alberto Gambacorta Biesjesvlei 3 (Pty) Ltd 5 Buitengracht St 20th Floor Portside Building Cape Town City Centre CAPE TOWN 8001

Telephone Number:

Cell phone Number:

Email Address :

021 202 1230

PER E-MAIL / MAIL

Dear Mr Gambacorta

ENVIRONMENTAL AUTHORISATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, ACT NO. 107 OF 1998, AS AMENDED: FOR THE DEVELOPMENT OF THE UP TO 350MW SOLAR PHOTOVOLTAIC (PV) FACILITY AND ASSOCIATED INFRASTRUCTURE (BIESJESVLEI PV3); NEAR SMITHFIELD, WITHIN THE MOHOKARE LOCAL MUNICIPALITY, FREE STATE PROVINCE.

With reference to the above application, please be advised that the Department has decided to grant authorisation. The Environmental Authorisation (EA) and reasons for the decision are attached herewith.

In terms of Regulation 4(2) of the Environmental Impact Assessment Regulations, 2014, as amended (the EIA Regulations), you are instructed to notify all registered interested and affected parties, in writing and within fourteen (14) days of the date of the decision as well as the provisions regarding the submission of appeals that are contained in the Regulations.

In terms of the Promotion of Administrative Justice Act, Act No. 3 of 2000, you are entitled to the right to fair, lawful and reasonable administrative action; and to written reasons for administrative action that affects you negatively. Further your attention is drawn to the provisions of the Protection of Personal Information Act, Act No. 4 of 2013 which stipulate that the Department should conduct itself in a responsible manner when collecting, processing, storing, and sharing an individual or another entity's







Batho pele- putting people first

The processing of personal information by the Department of Forestry, Fisheries and the Environment is done lawfully and not excessive to the purpose of processing in compliance with the POPI Act, any codes of conduct issued by the Information Regulator in terms of the POPI Act and / or relevant legislation providing appropriate security safeguards for the processing of personal information of others.

DFFE REFERENCE: 14/12/16/3/3/2/2533

ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED DEVELOPMENT OF THE UP TO 350MW SOLAR PHOTOVOLTAIC (PV) FACILITY AND ASSOCIATED INFRASTRUCTURE (BIESJESVLEI PV3); NEAR SMITHFIELD, WITHIN THE MOHOKARE LOCAL MUNICIPALITY, FREE STATE PROVINCE.

personal information by holding the Department accountable should the Department abuse or compromise your personal information in any way.

Your attention is drawn to Chapter 2 of National Environmental Management Act, Act No. 107 of 1998 National Appeal Regulations published under Government Notice R993 in Government Gazette No. 38303 dated 08 December 2014 (National Appeal Regulations, 2014), which prescribes the appeal procedure to be followed. Kindly include a copy of this document (National Appeal Regulations, 2014) with the letter of notification to interested and affected parties in this matter.

Should any person wish to lodge an appeal against this decision, he/she must submit the appeal to the appeal administrator, and a copy of the appeal to the applicant, any registered interested and affected party, and any organ of state with interest in the matter within 20 days from the date that the notification of the decision was sent to the registered interested and affected parties by the applicant; or the date that the notification of the decision was sent to the applicant by the Department, whichever is applicable.

Appeals must be submitted in writing in the prescribed form to:

The Director: Appeals and Legal Review of this Department at the below mentioned addresses.

By email: appeals@dffe.gov.za

By hand: Environment House

473 Steve Biko Road

Arcadia
PRETORIA
0083, or

By post:

Private Bag X447

PRETORIA 0001

Please note that in terms of Section 43(7) of the National Environmental Management Act, Act No. 107 of 1998, as amended, the lodging of an appeal will suspend the environmental authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged, you may not commence with the activity until such time that the appeal is finalised.

MJ

DFFE REFERENCE: 14/12/16/3/3/2/2533

ENVIRONMENTAL AUTHORISATION FOR THE PROPOSED DEVELOPMENT OF THE UP TO 350MW SOLAR PHOTOVOLTAIC (PV) FACILITY AND ASSOCIATED INFRASTRUCTURE (BIESJESVLEI PV3); NEAR SMITHFIELD, WITHIN THE MOHOKARE LOCAL MUNICIPALITY, FREE STATE PROVINCE.

To obtain the prescribed appeal form and for guidance on the submission of appeals, please visit the Department's website at https://www..gov.za/documents/forms#legal_authorisations or request a copy of the documents at appeals@dffe.gov.za

Yours faithfully

Dr Sabelo Majeza

Chief Director: Integrated Environmental Authorisations Department of Forestry, Fisheries the Environment

Date: 10/11/2004

Сс	Mr Paul Lochner	CSIR	
		CSIR	
	Mr MJ Kanwendo	Mohokare Local Municipality	Email: kanwendo @ mail.com
		Mohokare Local Municipality	Email: info@mohokare.gov.za
		Mohokare Local Municipality	Email: sebinane.thejane@yahoo.com
	Ms Grace Mkhosana	DESTEA	Email: mkhosana@destea.gov.za
	Dimakatso Mokoena	DESTEA	Email: mokoenad@destea.gov.za



Environmental Authorisation

In terms of Regulation 25 of the Environmental Impact Assessment Regulations, 2014, as amended

THE DEVELOPMENT OF THE UP TO 350MW SOLAR PHOTOVOLTAIC (PV) FACILITY AND ASSOCIATED INFRASTRUCTURE (BIESJESVLEI PV3); NEAR SMITHFIELD, WITHIN THE MOHOKARE LOCAL MUNICIPALITY, FREE STATE PROVINCE.

XHARIEP DISTRICT MUNICIPALITY

Application Register Number:	14/12/16/3/3/2/2533
Last amended:	First issue
Holder of authorisation	Biesjesvlei 3 (Pty) Ltd
Location of activity:	On Portion 1 of Farm Schoemanskraal 34, Remaining
	Extent of Farm Pompoenfontein 118, and Portion 1 of
	Farm Pompoenfontein 118, near Smithfield town, within
	Mohokare Local Municipality in the Free State Province

This authorisation does not negate the holder of the authorisation's responsibility to comply with any other statutory requirements that may be applicable to the undertaking of the activity.

Decision

The Department is satisfied, on the basis of information available to it and subject to compliance with the conditions of this Environmental Authorisation, that the applicant should be authorised to undertake the activities specified below.

Non-compliance with a condition of this Environmental Authorisation may result in criminal prosecution or other actions provided for in the National Environmental Management Act, Act No. 107 of 1998, as amended and the EIA Regulations, 2014, as amended.

Details regarding the basis on which the Department reached this decision are set out in Annexure 1.

Activities Authorised

By virtue of the powers conferred on it by the National Environmental Management Act, Act No. 107 of 1998, as amended and the Environmental Impact Assessment Regulations, 2014, as amended, the Department hereby authorises –

BIESJESVLEI 3 (PTY) LTD

with the following contact details -

Mr. Alberto Gambacorta

Biesjesvlei 3 (Pty) Ltd

5 Buitengracht St

20th Floor

Portside Building

Cape Town City Centre

CAPE TOWN

8001

Telephone Number:

021 202 1230

Cell phone Number:

Email Address :

to undertake the following activities (hereafter referred to as "the activity") indicated in Listing Notice 1, Listing Notice 2 and Listing Notice 3 of the EIA Regulations, 2014 as amended:

Activity number	Activity description
Listing Notice 1, Item 11(i)	
"The development of facilities or infrastructure	The proposed development entails the construction of an
for the transmission and distribution of	Independent Power Producer (IPP) Substation at the PV
electricity	Facility, which will be maintained by the IPP. This will
(i) outside urban areas or industrial complexes	include all the high voltage infrastructure leading up to the
with a capacity of more than 33 but less than	Point of Connection (i.e. the Project Applicant's section of
275 kilovolts."	the proposed on-site substation, which is also referred to
	the PV Facility IPP Substation). The PV Facility IPP
	Substation will have a capacity stepping up from 33kV to
	132kV. This constitutes facilities for the distribution and
	transmission of electricity.
	The proposed project will take place outside of an urban
	area. It will be constructed on various affected farm
	portions, north-west of the town of Smithfield, in the
	Mohokare Local Municipality and Xhariep District
	Municipality, in the Free State Province.
Listing Notice 1, Item 12(ii)(a)(c)	
"The development of-	The proposed development entails the construction of
(ii) infrastructure or structures with a physical	various infrastructure and structures (such as, but not
footprint of 100 square metres or more;	limited to, the solar field, on-site substation, laydown area,
where such development occurs-	internal roads (i.e. new roads within the fenced off area of
(a) within a watercourse;	the PV Facility), new access roads (new roads leading to
(c) if no development setback exists, within 32	the PV Facility within the study area, where existing roads
metres of a watercourse, measured from the	are not followed), and various ancillary infrastructure such
edge of a watercourse."	as Operation and Maintenance (O&M) control centre,
	offices, warehouse/workshop, bathrooms/ablutions,
	inverters, guard house, etc.).
	Where existing or new access roads cross drainage



features, new culverts, bridges or crossing structures will

Activity number	Activity description
	also be required. Such infrastructure across the drainage
	features will have a minimum footprint of 150m ² .
	These infrastructure and structures will exceed a footprint
	of 100m ² , and some occur within small drainage features,
	watercourses, and wetlands, and within 32m of these
	aquatic features, which have been delineated by the aquatic
	specialist.
	The proposed project will take place outside of an urban
	area. It will be constructed on various affected farm
	portions, north-west of the town of Smithfield, in the
	Mohokare Local Municipality and Xhariep District
	Municipality, in the Free State Province.
Listing Notice 1, Item 19	
"The infilling or depositing of any material of	The proposed development entails the excavation, removal
more than 10 cubic metres into, or the	and moving of more than 10m3 of soil, sand, pebbles or rock
dredging, excavation, removal or moving of	from nearby small drainage features, watercourses, and
soil, sand, shells, shell grit, pebbles or rock of	wetlands. The proposed project will also entail the infilling
more than 10 cubic metres from a	of more than 10m³ of material into the nearby aquatic
watercourse"	features. The aquatic features have been delineated by the
	aquatic specialist. This will occur as a result of development
	of the proposed Solar PV Facility and associated
	infrastructure, including the development of access roads
	and internal roads, and drainage line crossings.
Listing Notice 1, Item 24(ii)	
"The development of a road -	Where existing or new access roads cross drainage
(ii) with reserve wider than 13,5 meters, or	features, new culverts, bridges or crossing structures will
where no reserve exists where the road is	also be required along Access Route Option A, Access
wider than 8 meters."	Route Option B and Access Route Option C. The concrete
	slab of the bridge / structure will be a minimum of 5.5m and
	will have approximately 3m wide gabion mattresses on

Environmental Authorisation Reg. No. 14/12/16/3/3/2/2532		
Activity number	Activity description	
	either side. Hence the structure will have a minimum width	
	of 11 to 12m.	
Listing Notice 1, Item 28(ii)		
"Residential, mixed, retail, commercial,	The proposed project will take place outside of an urban	
industrial or institutional developments where	area. It will be constructed on various affected farm portions,	

"Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development:

(ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare."

The proposed project will take place outside of an urban area. It will be constructed on various affected farm portions, north-west of the town of Smithfield, in the Mohokare Local Municipality and Xhariep District Municipality, in the Free State Province. The land within the study area is currently being used for livestock grazing and agriculture.

The proposed Solar PV Facility, which is considered a commercial/industrial development, will have a footprint in excess of 1ha (maximum footprint of the fenced off area approximately 600ha). The proposed project will also entail the construction of various infrastructure and structures (such as, but not limited to, the solar field, on-site substation, laydown area, internal roads (i.e. new roads within the fenced off area of the PV Facility), new access roads (new roads leading to the PV Facility within the study area, where existing roads are not followed), and various ancillary infrastructure such as Operation and Maintenance (O&M) warehouse/workshop, control centre. offices. bathrooms/ablutions, inverters, guard house, etc.). This will constitute infrastructure with a physical footprint of more than 1ha.

Listing Notice 1, Item 48(i)(a)(c)

"The expansion of-

(i) infrastructure or structures where the physical footprint is expanded by 100 square metres or more; where such expansion occurs(a) within a watercourse;

The proposed project study area can be accessed via various existing main roads and gravel roads. Specifically, three access route options have been considered: Access Route Option A, Option B and Option C, which are routed along the N6; S1262; and S119. Access Route Options A, B and C have different access points off the S119. Direct access to the proposed project will be taken from the S119

Activity number

(c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse."

Activity description

along an existing farm access point, and thereafter new access roads will be developed within the study area, where they do not align with existing roads, or existing roads will be used where possible. Existing roads will be used as far as practically achievable.

The Traffic Specialist has noted that the N6, S1262, and S119 roads leading to the study area are of a sufficient width to accommodate truck movement, however widening will be required at localised positions (i.e. intersections). Such widening is discussed below:

• Intersection S1262 and S119:

Road widening by approximately 9 m (at the widest point) (approximately 400 m2) will be required at this intersection.

- Intersection S119 and Access Route Option A: Road widening by approximately 14 m (at the widest point) (approximately 800 m2) will be required at this intersection.
- Intersection S119 and Access Route Option B:_Road widening by approximately 7 m (at the widest point) (approximately 200 m2) will be required at this intersection.

Intersection S119 and Access Route Option C:

Road widening by approximately 14 m (at the widest point) (approximately 450 m2) will be required at this intersection.

Therefore, the intersection widening is regarded as expansion of infrastructure by more than 100m².

In addition, the existing cement bridge along Access Route Option A is approximately 3m wide. The bridge structure will



Activity number	Activity description
	need to be widened to approximately 15m (including gabion
	structures), which is regarded as expansion of infrastructure
	by more than 100m ² .
	The intersection widening and bridge widening will occur
	within small drainage features, watercourses, and wetlands,
	and within 32m of these aquatic features, which have been
	delineated by the aquatic specialist.
Listing Notice 1, Item 56(i)	
"The widening of a road by more than 6 metres,	The proposed project study area can be accessed via
or the lengthening of a road by more than 1	various existing main roads and gravel roads. Specifically,
kilometre-	three access route options have been considered: Access
(i) where the existing reserve is wider than 13,5	Route Option A, Option B and Option C, which are routed
meters."	along the N6; S1262; and S119. Access Route Options A,
	B and C have different access points off the S119. Direct
	access to the proposed project will be taken from the S119
	along an existing farm access point, and thereafter new
	access roads will be developed within the study area, where
	they do not align with existing roads, or existing roads will
	be used where possible. Existing roads will be used as far
	as practically achievable.
	The Traffic Specialist has noted that the N6, S1262, and
	S119 roads leading to the study area are of a sufficient
	width to accommodate truck movement, however widening
	will be required at localised positions (i.e. intersections).
	Such widening is discussed below:
	• Intersection S1262 and S119: Road widening by
	approximately 9m (at the widest point) (approximately
	400m²) will be required at this intersection.
	Intersection S119 and Access Route Option A: Road
	widening by approximately 14m (at the widest point)
	(approximately 800m²) will be required at this

Activity number	Activity description
	 intersection. The road widening will exceed 6m in this regard. Intersection S119 and Access Route Option B: Road widening by approximately 7m (at the widest point) (approximately 200m²) will be required at this intersection. The road widening will exceed 6m in this regard. Intersection S119 and Access Route Option C: Road widening by approximately 14m (at the widest point) (approximately 450m²) will be required at this intersection. The road widening will exceed 6m in this regard.
	In addition, the existing cement bridge along Access Route Option A is approximately 3m wide. The bridge structure will need to be widened to approximately 15m (including gabion structures), which is regarded as road widening by more than 6m. No road will need to be lengthened by more than 1km at these access routes.
Listing Notice 2, Item 1 "The development of facilities or infrastructure for the generation of electricity from a renewable resource where the electricity output is 20 megawatts or more."	The proposed project is a Solar PV Facility (i.e., facility for the generation of electricity from a renewable resource) with a capacity of up to 350MWdc (more than 20MW).
	The proposed project will take place outside of an urban area and will be constructed on various affected farm portions, north-west of the town of Smithfield, in the Mohokare Local Municipality and Xhariep District Municipality, in the Free State Province.
Listing Notice 2, Item 15 "The clearance of an area of 20 hectares or more of indigenous vegetation."	The proposed Solar PV Facility and associated infrastructure will have a footprint in excess of 20ha (maximum footprint of the fenced off area approximately

Activity number	Activity description
	600ha). As a result, more than 20ha of indigenous
	vegetation will be removed for the construction of the
	proposed Solar PV Facility and its associated infrastructure.
	According to Mucina & Rutherford (2006, as amended), the
	study area and proposed project falls within Aliwal North Dry
	Grassland (Gh2) vegetation type.
Listing Notice 3, Item 10(b)(i)(hh)	
"The development and related operation of	The construction and operational phases of the proposed
facilities or infrastructure for the storage, or	Solar PV Facility will require dangerous goods such as
storage and handling of a dangerous good,	chemicals, fuels, oils, lubricants and solvents. Therefore,
where such storage occurs in containers with a	infrastructure for the storage and handling of dangerous
combined capacity of 30 but not exceeding 80	goods of 30m ³ or more but not exceeding 80m ³ is proposed.
cubic metres;	Dangerous goods will be stored on site within designated
(b) In the Free State;	areas such as laydown areas. The laydown area is located
(i) Areas outside urban areas;	within 100m of small drainage features, watercourses, and
(hh) Areas within a watercourse or wetland; or	wetlands, which have been delineated by the aquatic
within 100 metres from the edge of a	specialist.
watercourse or wetland."	
Listing Notice 3, Item 12(b)(iv)	
"The clearance of an area of 300 square	The proposed Solar PV Facility and associated
metres or more of indigenous vegetation,	infrastructure will have an estimated footprint in excess of
(b) In the Free State;	one hectare and will take place in the Free State. The
(iv) Areas within a watercourse or wetland; or	proposed project will entail the construction of various
within 100 metres from the edge of a	infrastructure and structures (such as, but not limited to, the
watercourse or wetland."	solar field, on-site substation, laydown area, internal roads
	(i.e. new roads within the fenced off area of the PV Facility),
	new access roads (new roads leading to the PV Facility
	within the study area, where existing roads are not followed),
	and various ancillary infrastructure such as Operation and
	Maintenance (O&M) control centre, offices,
	warehouse/workshop, bathrooms/ablutions, inverters,
	guard house, etc.). Where existing or new access roads
	cross drainage features, new culverts, bridges or crossing



Activity number	Activity description
	structures will also be required. Some of these infrastructure
	and structures will occur within small drainage features,
	watercourses, and wetlands, and within 100m of these
	aquatic features, which have been delineated by the aquatic
	specialist.
	As a result, more than 300m ² of indigenous vegetation will
	be removed from these areas for the construction of the
	proposed Solar PV Facility and associated infrastructure.
Listing Notice 3, Item 18(b)(i)(hh)	
"The widening of a road by more than 4 metres,	The proposed project will take place on various affected
or the lengthening of a road by more than 1	farm portions, outside of an urban area, north-west of the
kilometre.	town of Smithfield, in the Mohokare Local Municipality and
(b) In the Free State;	Xhariep District Municipality, in the Free State Province.
(i) Outside urban areas;	
(hh) Areas within a watercourse or wetland; or	The proposed project study area can be accessed via
within 100 metres from the edge of a	various existing main roads and gravel roads. Specifically,
watercourse or wetland."	three access route options have been considered: Access
	Route Option A, Option B and Option C, which are routed
	along the N6; S1262; and S119. Access Route Options A,
	B and C have different access points off the S119. Direct
	access to the proposed project will be taken from the S119
	along an existing farm access point, and thereafter new
	access roads will be developed within the study area, where
	they do not align with existing roads, or existing roads will
	be used where possible. Existing roads will be used as far
	as practically achievable.
	The Traffic Specialist has noted that the N6, S1262, and
	S119 roads leading to the study area are of a sufficient
	width to accommodate truck movement, however widening
	will be required at localised positions (i.e. intersections).
	Such widening is discussed below:

Activity number	Activity description
	 Intersection S1262 and S119: Road widening by approximately 9m (at the widest point) (approximately 400m²) will be required at this intersection. The road widening will exceed 4m in this regard. Intersection S119 and Access Route Option A: Road widening by approximately 14m (at the widest point) (approximately 800m²) will be required at this intersection. The road widening will exceed 4m in this regard. Intersection S119 and Access Route Option B: Road widening by approximately 7m (at the widest point) (approximately 200m²) will be required at this intersection. The road widening will exceed 4m in this regard. Intersection S119 and Access Route Option C: Road widening by approximately 14m (at the widest point) (approximately 450m²) will be required at this intersection. The road widening will exceed 4m in this regard.
	In addition, the existing cement bridge along Access Route Option A is approximately 3m wide. The bridge structure will need to be widened to approximately 15m (including gabion structures), which is regarded as road widening by more than 4m. No road will need to be lengthened by more than 1km at these access routes. The intersection widening and bridge widening will occur within small drainage features, watercourses, and wetlands, and within 100m of these aquatic features, which have been delineated by the aquatic specialist.



as described in the final Environmental Impact Assessment (EIAR) dated September 2024:

SG 21 Codes and affected Farm Properties for Biesjesvlei PV3 and associated infrastructure

Farm Portion	21-digit Surveyor General code
PV Facility and associated infrastructure within the fenc	ed off area
Portion 1 of Farm Schoemanskraal 34	F0310000000003400001
Remaining Extent of Farm Pompoenfontein 118	F0310000000011800000
Portion 1 of Farm Pompoenfontein 118	F0310000000011800001
Access Road Option A - Preferred Route	
Farm Salpetervlei 756	F0310000000075600000
Farm Paalland 373	F03100000000037300000
Farm Ronde Bult 408	F0310000000040800000
Farm Modderkuil 396	F03100000000039600000
Farm Biesjesvlei 372	F03100000000037200000
Portion 1 of Farm Pompoenfontein 118	F0310000000011800001
Access Road Option B - Preferred Route	
Farm Benoni 534	F0310000000053400000
Farm Klein Badfontein 369	F03100000000036900000
Farm Paalland 373	F03100000000037300000
Farm Ronde Bult 408	F0310000000040800000
Farm Modderkuil 396	F03100000000039600000
Farm Biesjesvlei 372	F0310000000037200000
Portion 1 of Farm Pompoenfontein 118	F03100000000011800001
Access Road Option C – Preferred Route	
Remaining Extent of Farm Biesjespoort 521	F0310000000052100000
Farm Benoni 534	F0310000000053400000
Farm Klein Badfontein 369	F0310000000036900000
Farm Paalland 373	F03100000000037300000
Farm Ronde Bult 408	F03100000000040800000
Farm Modderkuil 396	F03100000000039600000
Farm Biesjesvlei 372	F03100000000037200000
Portion 1 of Farm Pompoenfontein 118	F0310000000011800001
Widening of Existing Road Intersections	
Farm Benoni 534	F0310000000053400000

Farm Portion	21-digit Surveyor General code
Remaining Extent of Farm Biesjespoort 521	F0310000000052100000
Portion 1 of Farm Biesjespoort 521	F03100000000052100001
Remaining Extent of Farm Elizabethfontein 374	F0310000000037400000
Farm Klein Badfontein 369	F0310000000036900000
Farm Salpetervlei 756	F0310000000075600000
Remaining Extent of Klein Sevenfontein 156	F0310000000015600000

Co-ordinates for Biesjesvlei PV3 and associated infrastructure

Co-ordinate	Decimal Degrees		Degrees, Minutes, Seconds	
Point	Latitude (Y)	Longitude (X)	Latitude (S)	Longitude (E)
PV Facility and	associated infras	tructure within the	e fenced off area	
Corner Point 1	-30.12657672	26.37750888	30° 07' 35.67617760" S	26° 22' 39.03196440" E
Corner Point 2	-30.13403387	26.37000207	30° 08' 02.52195000" S	26° 22' 12.00745920" E
Corner Point 3	-30.13937251	26.37896321	30° 08' 21.74103960" S	26° 22' 44.26754520" E
Corner Point 4	-30.14692442	26.41314895	30° 08′ 48.92793000″ S	26° 24' 47.33620200" E
Corner Point 5	-30.14446532	26.42094244	30° 08' 40.07515920" S	26° 25' 15.39276600" E
Corner Point 6	-30.13006219	26.41140666	30° 07' 48.22390200" S	26° 24' 41.06395800" E
Corner Point 7	-30.12749494	26.39519375	30° 07' 38.98180122" S	26° 23' 42.69748976" E
PV Facility IPP	Substation	THE LITTLE		
Corner Point	-30.1274408	26.37764559	30° 07' 38.78689800" S	26° 22' 39.52413480" E
Corner Point	-30.12744818	26.37920274	30° 07′ 38.81343360" S	26° 22' 45.12987098" E
Corner Point	-30.12880094	26.37920118	30° 07' 43.68337680" S	26° 22' 45.12423720" E
Corner Point	-30.12879439	26.3776371	30° 07' 43.65980760" S	26° 22' 39.49357178" E
Access Road O	ption A - Preferre	ed		
Start-Point	-30.10215751	26.40774589	30° 06' 07.76702867" S	26° 24' 27.88519696" E
Mid-Point	-30.10967631	26.38279884	30° 06' 34.83470520" S	26° 22' 58.07583840" E
End-Point	-30.12787395	26.37764288	30° 07' 40.34623079" S	26° 22' 39.51435575" E
Access Road O	ption B - Preferre	d		
Start-Point	-30.09332796	26.3885668	30° 05' 35.98065095" S	26° 23' 18.84049168" E
Mid-Point	-30.10404815	26.37116602	30° 06′ 14.57332301″ S	26° 22' 16.19768272" E
End-Point	-30.12787395	26.37764288	30° 07' 40.34623079" S	26° 22' 39.51435575" E
Access Road O	ption C - Preferre	ed		
Start-Point	-30.08834041	26.37831337	30° 05′ 18.02546520″ S	26° 22' 41.92812120" E



Co-ordinate Point	Decimal Degrees		Degrees, Minutes, Seconds	
	Latitude (Y)	Longitude (X)	Latitude (S)	Longitude (E)
Mid-Point	-30.10079365	26.37118663	30° 06' 02.85712442" \$	26° 22' 16.27186086" E
End-Point	-30.12787395	26.37764288	30° 07' 40.34623079" S	26° 22' 39.51435575" E
Widening of Exi	sting Road Inters	ections		
Mid-Point				
(S1262/S119	-30.10423498	26.4123598	30° 06' 15.24592316" S	026° 24' 44.49527212" E
intersection)				
Mid-Point	20 10220730	26.40774196	30° 06' 07.94659649" S	026° 24' 27.87105360" E
(S119/Option A)	-30.10220739			
Mid-Point	-30.09339592	26.38873086	30° 05' 36.22530598" S	026° 23' 19.43109165" E
(S119/Option B)				
Mid-Point	-30.08839031	26.37833609	30° 05' 18.20510587" S	026° 22' 42.00993312" E
(S119/Option C)	-30.00038031	20.37653609	30 03 16.20310367 3	020 22 42.00 33 3312 E

⁻ for the development of the up to 350MW Solar Photovoltaic (PV) Facility and associated infrastructure (Biesjesvlei PV3); near Smithfield, within the Mohokare Local Municipality, Free State Province, hereafter referred to as "the property".

Project Description:

The development entails the development of the up to 350MW Biesjesvlei Solar Photovoltaic (PV) Facility 3 (i.e. Biesjesvlei PV 3) and associated infrastructure near Smithfield within the Mohokare Local Municipality, Xhariep District Municipality, Free State Province. The project is referred to as the "Biesjesvlei 3" Solar PV. The Biesjesvlei PV 3 Solar Photovoltaic Facility and associated infrastructure will be across several farm portions and is proposed to connect to an existing 400kV powerline via dedicated 132kV powerline, a proposed independent Main Transmission Substation (MTS) and a Loop-In-Loop-Out (LILO). The generation capacity for the PV facility is estimated at up to 350 Megawatts direct current (MWdc).



Description of the components of Biesjesvlei PV3 and Associated Infrastructure

Infrastructure /Component	Description	
Solar Field		
Type of Technology	Solar Photovoltaic (PV) Technology	
Generation Capacity (Maximum Installed)	■ Up to 350 MWdc	
Total footprint that includes all associated	Maximum 600 ha	
infrastructure within the fenced off area of the \ensuremath{PV}		
facility (excluding access roads)		
PV Panel Structure (with the following possible	Height: Approximately 10 m (maximum)	
tracking and mounting systems):		
Single Axis Tracking structures (aligned north-		
south);		
 Fixed Axis Tracking (aligned east-west); 		
Dual Axis Tracking (aligned east-west and		
north-south);		
 Fixed Tilt Mounting Structure; or 		
Bifacial Solar Modules.		
Building Infrastructure		
Offices	Maximum height: 7m	
	■ Footprint: 1000m²	
Operational and maintenance (O&M) control	Maximum height: 7m	
centre	■ Footprint: 500m²	
Warehouse / workshop	Maximum height: 7m	
	Footprint: 500m ²	
Ablution facilities	Maximum height: 7m	
	■ Footprint: 50m²	
Converter / Inverter stations	Height: 2.5m to 7m (maximum)	
	Footprint: 2500m ²	
Guard Houses	Height: 3m	
	■ Footprint: 40m²	
On-site substation and/or switching station. This	Footprint of the IPP Substation: Approximately	
will include the section that will be maintained by	10000m ²	
the Independent Power Producer (IPP).	Height: 10m	
	Capacity: 132kV	



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	This section includes all the high voltage infrastructure
	leading up to the Point of Connection (i.e. the Project
	Applicant's section of the proposed on-site substation,
	which is also referred to the PV Facility IPP
	Substation).
Associated Infrastructure	
On-site medium voltage internal cables /	Placement: Underground or above ground
powerlines	■ Capacity: 33kV
	Depth (if underground): Maximum depth of 1.6m
	Height (if aboveground): Maximum height of 9m
Underground low voltage cables or cable trays	Depth: Maximum depth of 1.4m
External Access Roads	The study area can be accessed via various existing
	main roads and gravel roads. Specifically, three
	access route options have been considered: Access
	Route Option A, Option B and Option C, which are
	routed along the N6; S1262; and S119. Access Route
	Options A, B and C have different access points off the
	S119. Direct access to the proposed projects will be
	taken from the S119 along an existing farm access
	point, and thereafter new access roads will be
	developed within the study area, where they do not
	align with existing roads, or existing roads will be used
	where possible. Existing roads will be used as far as
	practically achievable.
	New Access Roads: Where new access roads are
	required within the study area, these will be 4 - 8 m
	wide. A preferred and alternative main access road
	route will be considered in the EIA Phase (Refer to
	Chapter 5 for additional information).
	Existing Access Roads: Where existing roads are
	used within the study area, they may need to be
	upgraded, as described below.



- The Traffic Specialist has noted the following (additional detail is provided in Section 2.7 of this report):
- The N6, S1262, and S119 are of a sufficient width to accommodate truck movement, however widening by more than 4 m or more than 6 m will be required at localised positions (i.e. intersections). Specifically, road widening by approximately 9 m will be required at the S1262 and S119 intersection. In addition, the N6 and S1262 intersection will need to be widened by approximately 2 m on the western side of the intersection and by approximately 2 m on the eastern side of the intersection.
- Existing internal farm roads (local farm roads within the farm property boundaries) will need to be upgraded to accommodate the abnormal loads as required. This includes the following:
 - Intersection S119 and Access Route Option A:
 Road widening by approximately 14 m (at the widest point) will be required.
 - Intersection S119 and Access Route Option B:
 Road widening by approximately 7 m (at the widest point) will be required.
 - Intersection S119 and Access Route Option C:
 Road widening by approximately 14 m (at the widest point) will be required.
 - The existing bridge on the S119 will also need to be inspected by a Structural Engineer.
 - The existing bridge on the existing internal farm road along Access Route Option A will need to be rebuilt/upgrade or realigned to minimise the turns that the abnormal loads need to navigate, if this access route is used for the proposed projects.



	A new bridge will need to be developed along
	Access Route Option B, if this option is used
	for the proposed projects.
	 A new bridge will need to be developed along
	Access Route Option C, if this option is used
	for the proposed projects.
Internal roads	Details: New internal gravel roads will need to be
	established within the fenced off area of the PV facility.
	■ Width: Up to 4 m
Fencing around the PV Facility Perimeter	Type: Palisade or mesh or fully electrified
	■ Security: Access points will be managed and
	monitored by an appointed security service provider.
	Height: Between 2 - 3 m
Panel maintenance and cleaning area	A dedicated panel maintenance and cleaning area will
	be required on site during the operational phase.
Storm water channels	 Details to be confirmed once the Engineering,
	Procurement and Construction (EPC) contractor has
	been selected and the design is finalised. Where
	necessary, a detailed storm water management plan
	would need to be developed.
Mark area during the construction phase (i.e.	
Work area during the construction phase (i.e.	Footprint: Up to 13 ha.
laydown area)	
Water Requirements	 Approximately 8 520 m³ to 12 000 m³ of water is
	estimated to be required per year for the construction
	phase.
	 Approximately 10 000 m³ to 16 000 m³ of water is
	estimated to be required per year for the operational
	phase.
	Water requirements during the decommissioning
	phase are expected to be the same as the
	construction phase.
	Potential sources: Existing boreholes on site or from
	the Local Municipality via trucks.
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Construction Period	■ 12 – 24 months
Operational Period	 Once the commercial operation date is achieved, the
	proposed facility will generate electricity for a minimum
	period of 20 to 30 years.



Conditions of this Environmental Authorisation

Scope of authorisation

- The development of the up to 350MW Solar Photovoltaic (PV) Facility and associated infrastructure (Biesjesvlei PV3); near Smithfield, within the Mohokare Local Municipality, Xhariep District Municipality, Free State Province, is approved as per the geographic coordinates cited in the table above.
- 2. Authorisation of the activity is subject to the conditions contained in this Environmental Authorisation, which form part of the Environmental Authorisation and are binding on the holder of the authorisation.
- 3. The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this Environmental Authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant, or person rendering a service to the holder of the authorisation.
- 4. The activities authorised must only be carried out at the property as described above.
- 5. Any changes to, or deviations from, the project description set out in this Environmental Authorisation must be approved, in writing, by the Department before such changes or deviations may be affected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further Environmental Authorisation in terms of the regulations.
- 6. The holder of an Environmental Authorisation must apply for an amendment of the Environmental Authorisation with the Competent Authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.
- 7. This activity must commence within a period of ten (10) years from the date of issue of this Environmental Authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for Environmental Authorisation must be made for the activity to be undertaken.
- 8. Construction must be completed within five (05) years of the commencement of the activity on site. The continuation of any such activities after the above-mentioned period has lapsed may trigger one or more listed and/or specified activities, including activity 32 of Listing Notice 1. Such continuation without the required environmental authorisation will constitute an offence or offences in terms of section 49A(1)(a) read with section 24F(1)(a) of National Environmental Management Act (NEMA).
- 9. Commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.

Notification of authorisation and right to appeal

- 10. The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this Environmental Authorisation, of the decision to authorise the activity.
- 11. The notification referred to must
 - 11.1. specify the date on which the authorisation was issued,
 - 11.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014.
 - 11.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and
 - 11.4. give the reasons of the Competent Authority for the decision.

Commencement of the activity

12. The authorised activity must not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended will suspend the Environmental Authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.

Management of the activity

- 13. The Final Project Layout Map showing the detailed infrastructure and development footprints for Biesjesvlei PV3, on Figure 20.1, on page 20-6 (under Chapter 20) of the final EIAR dated September 2024 is hereby approved.
- 14. The Environmental Management Programme (EMPr) submitted as part of the final EIAR dated September 2024 attached as Appendix J, is approved and must be implemented and adhered to.
- 15. The generic Environmental Management Programme (EMPr) for the PV Facility IPP Substation, submitted as part of the final EIAR dated September 2024, attached as Appendix K, is approved and must be implemented and adhered to.
- 16. The EMPr must be implemented and strictly enforced during all phases of the project. It shall be seen as a dynamic document and shall be included in all contract documentation for all phases of the development when approved.

- 17. Changes to the approved EMPr must be submitted in accordance with the EIA Regulations applicable at the time.
- 18. The Department reserves the right to amend the approved EMPr should any impacts that were not anticipated or covered in the final EIAR be discovered.

Frequency and process of updating the EMPr

- 19. The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 25 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the environmental authorisation or EMPr.
- 20. The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.
- 21. The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of the EIA Regulations, 2014 as amended. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.
- 22. In assessing whether to grant approval of an EMPr which has been updated because of an audit, the Department will consider the processes prescribed in Regulation 35 of the EIA Regulations, 2014 as amended. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
- 23. The holder of the authorisation must apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of the EIA Regulations, 2014, as amended. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.

Monitoring

24. The holder of the authorisation must appoint an experienced Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPr.

- 24.1. The ECO must be appointed before commencement of any authorised activities.
- 24.2. Once appointed, the name and contact details of the ECO must be submitted to the *Director:*Compliance Monitoring of the Department.]
- 24.3. The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO.
- 24.4. The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.

Recording and reporting to the Department

- 25. All documentation e.g., audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this environmental authorisation, must be submitted to the *Director:*Compliance Monitoring of the Department.
- 26. The holder of the environmental authorisation must, for the period during which the environmental authorisation and EMPr remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPr are audited, and that the audit reports are submitted to the *Director: Compliance Monitoring* of the Department.
- 27. The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, considering the processes for such auditing as prescribed in Regulation 34 of the EIA Regulations, 2014 as amended.
- 28. The holder of the authorisation must, in addition, submit environmental audit reports to the Department within 30 days of completion of the construction phase (i.e., within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.
- 29. The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014 as amended and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the approved EMPr.
- 30. Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.

Notification to authorities

31. A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site

preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.

Operation of the activity

32. A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.

Site closure and decommissioning

33. Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and Competent Authority at that time.

Specific conditions

- 34. The footprint of the development and access routes must be limited to areas required for actual construction works.
- 35. No exotic plants must be used for rehabilitation purposes. Only indigenous plants of the area must be utilised.
- 36. Permit from relevant authorities must be obtained prior commencement of any construction activities for the disturbance or removal of any nationally or provincially protected species.
- 37. No activities, which require a water use license, must be allowed to encroach into a water resource without a water use authorisation being in place from the Department of Water and Sanitation.
- 38. Should any archaeological sites, artefacts, paleontological fossils, or graves be exposed during construction work, work in the immediate vicinity of the find must be stopped, the South African Heritage Resources Agency (SAHRA) must be informed, and the services of an accredited heritage professional obtained for an assessment of the heritage resources.
- 39. Hazardous substances must be stored in a bunded and designated area to avoid accidental leakage into the environment.
- 40. An integrated waste management approach must be implemented that is based on waste minimisation and must incorporate reduction, recycling, re-use and disposal where appropriate. Any solid waste must be disposed of at a landfill licensed in terms of Section 20 (b) of the National Environment Management Waste Act, 2008 (Act No.59 of 2008).

General

- 41. A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying-
 - 41.1. at the site of the authorised activity,
 - 41.2. to anyone on request; and
 - 41.3. Where the holder of the Environmental Authorisation has a website, on such publicly accessible website.
- 42. National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.

Date of Environmental Authorisation: 10/11/2024

Dr Sabelo Malaza

Chief Director: Integrated Environmental Authorisations

Department of Forestry, Fisheries & the Environment



Annexure 1: Reasons for Decision

1. Information considered in making the decision

In reaching its decision, the Department took, inter alia, the following into consideration:

- a) The listed activities as applied for in the amended application form received on 08 March 2024, amended application form received on 02 August 2024.
- b) The information contained in the final EIAR dated September 2024.
- c) The comments received from all interested and affected parties as included in the final EIAR dated September 2024.
- d) Mitigation measures as proposed in the EIAR and the EMPr and the generic EMPr dated September 2024.
- e) The information contained in the specialist studies contained within the appendices of the final EIAR.

2. Key factors considered in making the decision

All information presented to the Department was considered in the Department's consideration of the application. A summary of the issues which, in the Department's view, were of the most significance is set out below.

- a) The findings of all the specialist studies conducted and their recommended mitigation measures.
- b) The need for the proposed project ties in with the national government policies, plans, and programmes which have relevance to energy planning and production.
- c) The final EIAR dated September 2024 identified all legislations and guidelines that have been considered in the preparation of the EIAR.
- d) The methodology used in assessing the potential impacts identified in the final EIAR dated September 2024 and the specialist studies have been adequately indicated.
- e) A sufficient public participation process was undertaken, and the applicant has satisfied the minimum requirements as prescribed in the EIA Regulations, 2014 as amended for public involvement.

3. Findings

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

- a) The identification and assessment of impacts are detailed in the final EIAR dated September 2024 and sufficient assessment of the key identified issues and impacts have been completed.
- b) The procedure followed for impact assessment is adequate for the decision-making process.

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- c) The proposed mitigation of impacts identified and assessed adequately curtails the identified impacts.
- d) EMPr measures for the pre-construction, construction and rehabilitation phases of the development were proposed and included in the EIAR and will be implemented to manage the identified environmental impacts during the construction phase.

In view of the above, the Department is satisfied that, subject to compliance with the conditions contained in the environmental authorisation, the authorised activities will not conflict with the general objectives of integrated environmental management laid down in Chapter 5 of the National Environmental Management Act, 1998 and that any potentially detrimental environmental impacts resulting from the authorised activities can be mitigated to acceptable levels. The environmental authorisation is accordingly granted.



Annexure 2: Locality Plan

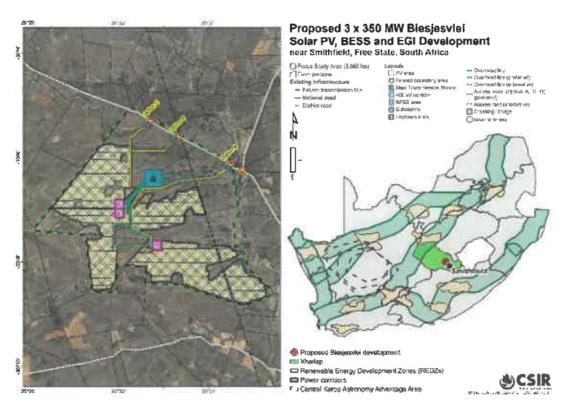


Figure A. Locality map for the proposed Biesjesvlei Solar PV1 to PV3; Biesjesvlei BESS 1 to 3; Biesjesvlei EGI 1 to 3; and Biesjesvlei MTS and LILO, near Smithfield in the Free State.

