

Project Reference Number: APP 002735

EIA SCOPING and IMPACT ASSESSMENT REPORT for the PROPOSED FINFISH CAGE FARMING PROJECT OFFSHORE from LÜDERITZ

PUBLIC CONSULTATIONS: I & AP

Appendix 1a: The Namibian dated 18th December 2020, to announce the public meeting scheduled for Walvis Bay and Swakopmund on the 12th and 13th January 2021.



Atlantic Consulting Services (Aquatic and Terrestrial) CC/2021/0384
Dr Ekkehard Klingelhoefter

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Appendix 1b: *The Namib Times* dated 18th December 2020, to announce the public meeting scheduled for Walvis Bay and Swakopmund on the 12th and 13th January 2021.



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Appendix 1d: *The Republikein, SUN and Allgemeine Zeitung, dated 29th January 2021, announce public meeting scheduled for Lüderitz on 23rd February 2021.*

FRIDAY 29 JANUARY 2021




Invitation to Tender

The Benguela Current Convention (BCC) is a multi-sectoral Inter-Governmental Organisation by Angola, Namibia and South Africa (Parties) to spearhead regional collaboration for integrated management, sustainable development and protection of the environment using an ecosystem approach to ocean governance in the Benguela Current Large Marine Ecosystem (BCLME).

The Benguela Current Convention invites proposals from competent consultancy firms/ individuals to undertake the following consultancies:

- Design, Development, Implementation and Hosting of the Benguela Current Large Marine Ecosystem Regional Integrated Information Management System (BCLME RIMS).
- Update the 2014 State of the Marine Environment Report of the Benguela Current Large Marine Ecosystem (BCLME).

Detailed Terms of Reference are available on BCC website (www.benguelacc.org) or from Mr. Jackson Kaoti, (jackson@benguelacc.org; Tel: +264 64 406 900).

The deadlines for the submission of proposals/bids for all the tenders is **22 February 2021**.

Kindly note that these are two separate consultancies.



The Ministry of Education, Arts and Culture
PUBLIC INVITATION

Market Watch

APPLICATION FOR ENVIRONMENTAL CLEARANCE CERTIFICATE - Exploration for natural stone to produce dimension stone & industrial minerals on EPL 6069, Erongo Region

Under the Environmental Management Act, 2007 (Act No. 7 of 2007) & the EIA Regulations 30 of 2002, prospective of good quality natural stone for production of dimension stone and industrial minerals is a listed activity which cannot be conducted without an Environmental Clearance Certificate (ECC) from the Department of Environmental & Forestry (DEF). (DMA) Geological & Geographical Information System (GIGIS) and Environmental Impact Assessment & Management Plan to support the application for ECC.

Proprietor: Doyika Investment cc.

Site Locality: The EPL is located about 27 km to the north east of Lüderitz, Erongo Region, between Farms (Telegraph 020, Haselen 09 & Solus 95).

Interested & Affected Parties (I&APs) are hereby invited to register for the EIA process by submitting an application to the Registrar of Environmental & Forestry on or before 20 February 2021 to be considered for the EIA process. An application form and Information Document is available for circulation to I&APs upon registration.

Public consultancies & engagement meeting is tentatively scheduled for 09 February 2021. Meeting should be held with registered I&APs only. All Covid-19 regulations shall apply.



Mt: +264 81 478 6303 (SMSes preferred)
Email: info@mvai.com.na



WHAT IS

8 **Republikein** **Sum** **Algemeine Zeitung**

Registramingswege Legal Notices

035 **ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED FINFISH CAGE FARM WEST OF LÜDERITZ (PROJECT IDENTIFIED IN THE NATIONAL COASTAL ZONING MANAGEMENT ACT No.7 of 2007 and its 2007 EIA Regulations), the public is hereby invited to register for the EIA process by submitting an application to the Registrar of Environmental & Forestry on or before 20 February 2021 to be considered for the EIA process. An application form and Information Document is available for circulation to I&APs upon registration.**

Proprietor: Lilongeni Aqua Fishing (Proprietary) Ltd

Consultant: EAP, Atlantic Consulting Services (Pty) Ltd, c/o Dr. E. Klingelhoefter

Type of activity: Construction and installation of fish processing facility and hatchery offshore in cages, onshore fish processing facility and hatchery in Lüderitz industrial area. Fish processing facility includes Shovel Dock, K&B, Yelwals and Atlantic Salmon.

Offshore footprint: Cages are to be installed in an area of 35 000 metric tons.

Onshore footprint: Fish processing facility and hatchery for cage farming production in Lüderitz.

Site coordinates: 26°37'40" Latitude South and 15°15'52" Longitude East.

Public participation is important in the EIA process. Therefore, members of the public are further invited to register for the EIA process by submitting an application to the Registrar of Environmental & Forestry (E&F) in order to comment/raise concerns or receive further information on the EIA process.

Registrations are to be done with Atlantic consulting services via the contact details below.

Public participation meeting will be held on Tuesday 23 February 2021; Time: 09h00 - 12h00; Venue: The Nest Hotel Lüderitz.

Registration and comments should reach: mvai@mvai.com.na

035 **LEGAL NOTICE**

IN THE MATTER OF THE DISTRICT OF GOBABIS: Held at Gobabis, Case No. 236/2020.

IN THE MATTER OF: BISHOP DAMME OPPENHEIM (Defendant) NOTICE SALE IN EXECUTION

In pursuance of a judgment in the District of Gobabis, held at Gobabis, Case No. 236/2020, the following goods will be sold in execution on the 23rd February 2021, 09h00, at the highest bidder, viz.:
48 Ruby Street - Office of the Messenger of Court, Gobabis to the highest bidder, viz.:
BN VENTER LEGAL PRACTICE, PO Box 1265 Gobabis
Tel: (082) 56 5226/7
Fax: (082) 56 5228/9

LIQUIDATION AND DISTRIBUTION OF ASSETS OF THE ESTATE OF: IN TERMS OF SECTION 35(5) OF THE LIQUIDATION ACT 66 OF 1966, notice is hereby given that the assets of the estate of the deceased, Mr. Johannes Petrus van der Merwe, deceased, are to be distributed to the creditors of the estate (First and Final, unless otherwise stated in the estate specified below) will be open for inspection by the creditors of the estate for a period of 21 days (or shorter or longer if specifically stated) from the date specified or the date of publication of this notice. The creditors should be the later and at the offices of the Master of the High Court at Windhoek and the Magistrate's Office at Gobabis.

Should no objections thereto be lodged with the Master concerned during the specified period, the Executors will proceed with the liquidation in accordance with the accounts.

Registered Number of Estate: ET19/2020.

Curator: Dr. Jäger
Curator: Mr. Jacobus Frederik Botha.

Registration and comments should reach: mvai@mvai.com.na

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Appendix 2a: Participant list of the public that attended the coastal public meeting at Walvis Bay on the 12th January 2021.

Lilongeni Aqua Fishing (Proprietary) Ltd
Environmental Impact Assessment Public Meeting
Attendance Register
Date: 13th January 2021
Time: 09h00-12h00
Venue: Protea Hotel-Logoon, Walvis Bay

Total 12x

No.	Name & Surname	Company/Organization	Position	Contact No.	Email address:	Signature
1	Zakaria Bata	Eastbay Trading Enterprises	Owner/Manager	0813210002	zabatas@gmail.com	<i>[Signature]</i>
2	Walter Brandmeier	Brandbox GmbH	MD	0811260300	walter-brandmeier@topcon.de	<i>[Signature]</i>
3	Tokimasa Kuroki	MSI	QA Officer	0811232904	tokimasa@msi.com.na	<i>[Signature]</i>
4	Rama Haka	Lioneari Aquafishing	Director	0811271753	ramahaka@lioneari.com.na	<i>[Signature]</i>
5	Immanuel Nj	Nj	CEO	081889927	immanuelnj@gmail.com	<i>[Signature]</i>
6	Abraham K. K. K.	FLAP	FLAP	0817193585	ekkelhard@flap.com.na	<i>[Signature]</i>
7	Henry	Atlantis Services	Owner	0811275275	henrydupe@atlantis.com.na	<i>[Signature]</i>
8	Keatje van der Merwe	Keatje van der Merwe	Chairman	081169177	keatje@keatje.com.na	<i>[Signature]</i>
9	IVOR UIR	MEMK	CEO	0812521008	ivoruir@memk.com.na	<i>[Signature]</i>
9	Ndumiso Kankama	Atlantic Cas Services	Secretary	0813779411		<i>[Signature]</i>
10	Manja Shikhand	Atlantic Cas Services	Expert	0814296085		<i>[Signature]</i>
11	Thomas Mawabeng	Lilongeni Aqua Fishing	Director	0813087665		<i>[Signature]</i>
12	Hansjörg du Plessis	EdiST Invest	Owner	0811275275		<i>[Signature]</i>
13						

*Note: Refer to Minutes of meeting, as proof of 12x participants.
E. K. Klingelhoeffer*

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Appendix 2b: Participant list of the public that attended the coastal public meeting at Swakopmund on the 13th January 2021.

TOTAL
32 + 2

Lilongeni Aqua Fishing (Proprietary) Ltd
Environmental Impact Assessment Public Meeting
Attendance Register

Date: 14th January 2021 Time: 09h00-12h00 Venue: NatMIRC (MFMR), Swakopmund

No.	Name & Surname	Company/Organization	Position	Contact No.	Email address:	Signature
1	Hausberg	Lilongeni	Druck	0813021441		[Signature]
2	Zubhi Botes	fishers	Owner/Manager	0812740022	fishbotes@gmail.com	[Signature]
3	MANUEL ROMERO	Beira Aquaculture	Director	0811497376	beira@aquaculture.com	[Signature]
4	Mike Scott	African Conservation Services	Member	0812845130	ecoserve@inag.na	[Signature]
5	Ann Scott		member	"	"	[Signature]
6	S. Gariseb	NAMPOR	SPR Manager	081167275	sgariseb@nampor.na	[Signature]
7	Stephan Henning	MFMR	Fisheries Officer	0812202946	henning@mfmr.gov.na	[Signature]
8	SASCHA KISNER	MFMR	FET	0816619152	saskia.kisner@mfmr.gov.na	[Signature]
9	RUAN LOUW	MFMR AQUACULTURE	Fisheries Biologist	0812878885	ruan.louw@mfmr.gov.na	[Signature]
10	GEORGIE	FERMAR	Aqua. Exper	0812840501	georgiemosa@hotmail.es	[Signature]
11	Victor Libuky	MFMR	Biologist	0811463142	victor.libuky@mfmr.gov.na	[Signature]
12	Ramon Abitai	Lilongeni Aqua Fish	Promoter	0811271753	ramon@abita.com.na	[Signature]
13	Christine Jager	MFMR	Biologist	0818010960	christine.jager@mfmr.gov.na	[Signature]
14	Anja v.d. Plas	MFMR	Senior Scientist	0812421891	anja.vandplas@mfmr.gov.na	[Signature]
15	Richard Horath	MFMR	Senior Biologist	0817669285	richard.horath@mfmr.gov.na	[Signature]

S. Klinger EAP

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EIA SCOPING and IMPACT ASSESSMENT REPORT for the PROPOSED FINFISH CAGE FARMING PROJECT OFFSHORE from LÜDERITZ

Attendance Register

Date: 14th January 2021

Time: 09h00-12h00

Venue: NatMIRC (MFMR), Swakopmund

16	Sechlo Ohlongo	MFMR	Fisheries	0814097250	sechlo@swanlon	
17	F. H. Kambuya	MFMR	Fisheries Tech	0812444495	Ferokhmad.Ha Lwyo@m.f.gov.na	
18	A. Kwan	"	CFR	0812816970	-	
19	J. Fehnel	"	FB	0817509993	juwe@wachtelgou	
20	Penthecia	MFMR	CFRT	0813216198	Penthecia.kalob	
21	J. Kaelum	MFMR	SFB	081237444	Johan.Kaelum	
22	D. Kainge	MFMR	CFB	0811490433	Daniel.Kainge	
23	L. Shei	MFMR	SFB	0812082521	Katya Shei	
24	T. Ngawa	MFMR	FB	0812480930	Tobias.Ngawa	
25	J. GEI-KHAW	MFMR	STA	0814458196	Jan. Geikhaub	
26	H. Skyprecht	"	CFB	064-419000		
27	B. M. J. Zw	"	CFB	0812611111	bepu@pro net.na.gov.na	
28	Tony Rowan	Benguela Shi Boat Assoc	Member		bsh@fish gnao.na.gov.na	
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Ekkehard
EAP

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Lilongeni Aqua Fishing (Proprietary) Ltd
Environmental Impact Assessment Public Meeting
Attendance Register
Date: 14th January 2021 Time: 09h00-12h00 Venue: NatMIRC (MFMR), Swakopmund

No.	Name & Surname	Company/Organization	Position	Contact No.	Email address:	Signature
1	Bronwen Lane	revised MAFR	-	0816352093	curie32@qnet.co.na	
2	Tony Lupo	FAWCA		0819989192	tony@fawca.com.na	
3	Ivory Uuras	MFMR		0812521008	ivory@mfmr.gov.na	
4	Tobias Endjambi	MFMR	Biologist	0814623427	Tobias.Endjambi@mfmr.gov.na	
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EAP

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Appendix 2c: Participant list of the public that attended the coastal public meeting at Lüderitz on the 23rd February 2021.

Lilongeni Aqua Fishfarming (Proprietary) Ltd

Environmental Impact Assessment Public Meeting

Attendance Register

Date: 23rd February 2021

Time: 09h00-12h00

Venue: The Nest Hotel, Lüderitz

No.	Name & Surname	Company/Organization	Position	Contact No.	Email address:	Signature
1	Korei Kaving	Netcable Beukes Aff.	Legal Repres.	0816509175	lawyer@netcable.co.za	<i>[Signature]</i>
2	HURZ Nampitshi	Kingwana Afalane	Operational Manager	081091462	kunze.nampitshi@afalane.co.za	<i>[Signature]</i>
3	Kabeu Ndawu	Marico Fishing	Sales Manager	0811287394	esports@maricofishing.com	<i>[Signature]</i>
4	Ka Keshu	Shosha Aquaculture	Member	0811292879	ka.keshu@shosha.co.za	<i>[Signature]</i>
5	Hustin Erweert	SY Zephyr	Chief	0827564806	hustin@zephyr.co.za	<i>[Signature]</i>
6	Jesma Namambo	Enviro Aqua	Manager	0818346504	jesma@enviroaqua.co.za	<i>[Signature]</i>
7	Eli althia Petrus	MFMK	SFR	0817326699	e.althia@mfmk.co.za	<i>[Signature]</i>
8	Delia Nkomakole	MFMK	SFR	0813811318	delia@mfmk.co.za	<i>[Signature]</i>
9	Jessica Kerkper	P/MK	-	0813231110	jkerker@p.mk.co.za	<i>[Signature]</i>
10	Nana Hinko	Lilongeni Aqua	Director	0811871753	nana@lilongeni.co.za	<i>[Signature]</i>
11	Sina Mlawale	Fisheries	F. Biologist	081319678	sina@fisheries.co.za	<i>[Signature]</i>
12	Heleni Malamba	Fisheries	F. Technician	0813520225	hmalamba@fisheries.co.za	<i>[Signature]</i>
13	Paulus Ngale	Fischer	GM Finance	0811492552	paulus@fischer.co.za	<i>[Signature]</i>
14	SS Simamane	AVCA	HRC Advisor	0813323458	ssimamane@gmail.com	<i>[Signature]</i>
15	Delia Kuperus	Orange Coast/Tour	Member	0812696945	deliakuperus@gmail.com	<i>[Signature]</i>
16	Jody Kears	Fisheries	C.I.	0812593575	jody@fisheries.co.za	<i>[Signature]</i>
17	K. GARDER	Fisheries	Fisheries Biologist	0813200155	kgarder@gmail.com	<i>[Signature]</i>
18	Mora Eka	Coastways Tours	Nicole	0812478455	moraeka66@gmail.com	<i>[Signature]</i>
19	Marian Klingelhoeffer	EAP	EAP	0812790257	marian@atlanticconsulting.co.za	<i>[Signature]</i>
20	Alice Petrus	Independent Agent	Admin	081252062	alicepetrus@gmail.com	<i>[Signature]</i>
21	Rose Erasmus	Banyuwa Wealth	Owner	081273577	rose@banyuwa.co.za	<i>[Signature]</i>

*EAP
SK/KL*

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Appendix 3a: Stakeholder scoping summary: major points raised at the public meeting on 12 January 2021 in Walvis Bay.

Organization	Question / Comment	Response
Zeist Invest	Mr Henning du Plessis: emphasised that this is a project of high magnitude thus the proponent should start small by doing a pilot study at least for the first three (3) years.	The advice and caution of Mr HduP was duly noted and will be taken into consideration.
Namibia Mariculture Association	Mr Koos Blaauw: it is reported that the Norwegian Salmon has a skin disease; what is the probability of salmon infecting other fish and shellfish at the proposed sites?	The regulations for the import and export states that all live animals imported into the country should be disease free (strict protocols are in place to avoid this). The smolt will be quarantined for observation before released into the Namibian environment. The cold waters and pulsating current is not a conducive environment for bacteria to
MFMR	Mr Ivory Uriab: advised the Environmental Assessment Practitioner (EAP) to engage with the Minister and the Executive Director (ED) of MFMR from an early stage. Commented that both MFMR inspectors and NSI officials will be present during time of harvesting.	The EAP responded that this was ongoing and the ED and Deputy Minister are being kept abreast of progress made regards to the EIA. The EAP confirmed that their presence will be a necessity to

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		ensure that all procedures are followed which will enable the company to export fish products of highest quality.
Proponent	<p>Mr Ranga Haikali: SGS is the world's leading inspection, verification, testing and certification company – should Namibia not affiliate to this company?</p> <p>Does the Ministry of Agriculture, Water and Land Reform (MAWLR) approve any imported feed and seedlings?</p>	<p>NSI officials advised that using their services will cut cost as compared to using SGS. There was no need to engage with SGS as the NSI is the registered competent authority that will deal with all export of fish products.</p> <p>Any fish feed imported into the country has to be approved and registered by the Ministry of Agriculture (MAWLR); the import of fry/smolt/fingerlings will need to be placed into quarantine for at least 1 month and tested for potential pathogens by MAWLR of the Directorate of Veterinary Services.</p>

Table 3b: Stakeholder scoping summary: major points raised at the public meeting on 13 January 2021 in Swakopmund (NatMIRC).

Organization	Question / Comment	Response
MFMR	Dr Anja Kreiner: if <u>site B</u> is to be chosen which will be at 45 nm offshore at a 200m sea depth the proponent will need to take into consideration the impacts this operation will have on the oceanographic parameters (chemical and biological) on the long-term monitoring line on 23 degree Latitude. Will the mega	The points raised by Dr Kreiner on the potential impacts that the operation will have on the 23 degree monitoring line were recognized by the EAP and noted.

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	cage culture change environmental parameters in this region and if so to what extent? Will the proponent be able to ID the possible effects that the cage culture will have on the environment?	
Benguela Ski Boat Fishing Association	Mr Tony Raw: is there any pollution contingency plan that will guide against the pollution of waters and what will the possible impacts on the project be?	the pollution aspect e.g. eutrophication will be addressed in the EIA report
MFMR	Dr Beau Tjizoo: What is the source of feed for the proposed fish species?	The source will be from Hermanus Feeding Company (South Africa); they specialize in tailor made feed for each particular fish species and age. Once the Ministry of Agriculture has approved the feed it will be listed on their register.
Mr Victor Libuku	On the issue of medication, how will the medication be monitored and will a baseline be established beforehand regarding the impact of vaccines and chemicals that will be used by the project? How will it affect the other fish in the natural ecosystem? Mr. Libuku's concern is that the proponents need to consider the	After 2 to 3 years the mariculture farmers relocate their cages to a new location. Our ocean is very dynamic thus the waste will drift off with the currents and will not remain in one position. Baseline studies will be done over a period of two years by PhD students to determine waste effects,

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	<p>waste impact on the environment from feeding the fishes.</p> <p>The proponent should also be able to calculate how 40,000MT of feed will affect the bottom dwellers.</p>	<p>however, literature states that approved fish feed that ends up as waste gets dispersed and taken up by the system.</p>
MFMR	<p>Mr Ferdinand Hamukwaya: What procedures will be used when vaccinating the fish?</p>	<p>The vaccines will be administered via the water or through the feed.</p> <p>With the advancement of technology, a computerized system will be used to administer the vaccine</p>
African Conservation Services	<p>Mr and Mrs Scott: How will the cages deter birds from getting entangled in the nets?</p> <p>They advised that, if not already approached, to consider including the Albatross Task Force for their inputs.</p>	<p>The inputs have been noted down and for appropriate action to be taken the proponent should contact the Albatross Task Force.</p> <p>The cages to be installed have bird and marine mammal repellents in place.</p>

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Appendix 3c: Stakeholder scoping summary: major points raised at the public meeting in Lüderitz on 23rd February 2021.

Organi- zation	Question /Comment	Response
ACHA	Mr Sackias Shimuandi: salmon species prefer to breed in freshwater, if they escape into the freshwater bodies e.g. the Orange River what measures have been put in place for escapees ?	The cages have an inner net which is protected by a strong wire mesh which has a durability life span of 14 years. Worst case scenario -- should escapees take place these fish will be taken by the strong current offshore in a north westerly direction 100's km north of the Orange river.
MFMR	Dr Jessica Kemper: considering that six (6) km from Diaz Point there is a high risk in bird populations and migratory roots for the dolphins, seals colonies are also found on the nearby islands Her main concern is that Easter Bay is close to Halifax and Mercury Islands, the two islands are home to a variety of endangered bird colonies. Putting up a finfish farm will attract the birds to the fish cages as this is close to the birds feeding grounds and this becomes a danger zone to the birds as they might get entangled into the cage nets.	Dr Kemper's concerns have been noted down and they will be addressed.
MFMR	Dr Kollett Grobler: 1.Halifax Island has high numbers of penguins. 2.Not in support of the proponents wanting to bring in salmon as one of the proposed species.	Dr Grobler's concerns have been noted down and will be taken into considerations. The comment on mitigations have been duly noted and the EAP will

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	<p>3.The vaccines and the growth hormones that are used all end up into the marine environment.</p> <p>4.Fish pathogens and diseases cannot be contained in a fish tank/cages.</p> <p>5.The proposed area is very rich in jellyfish and they end up causing harm to the salmon species.</p> <p>6.Five (5) km east of the proposed site is a major feeding and breeding area for the bird colonies.</p> <p>7.The EAP in his presentation has outlined the mitigations but has not stated how these mitigations will be resolved.</p>	<p>write them down clearly in the final report.</p>
MFMR	<p>Ms Diina Mwaale: Some of the chemicals that will be used are dangerous to shellfish that are dwelling at the bottom of the ocean.</p>	<ol style="list-style-type: none"> 1. The proponents want to farm organically, the fish feed is the only thing that will go into the ocean. 2. There are procedures that will be taken into consideration with regards to the feed that will be used. 3. The proponents will only use fish feed which has been approved by the Namibia Standard Institute (NSI) that they do not cause harm to other aquatic organisms. Thus no harm will be brought upon the shellfish or any other organisms that live at the bottom of the ocean.

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		<p>4. Faeces accumulation in the ocean will be broken down into small nano-particles, therefore they will not have any effect on the shellfish species either.</p> <p>Namibia is known to produce natural organic products. The fish will be naturally grown; through the health food programme no growth hormones will be allowed into Namibia.</p>
MFMR	Ms Diina Mwaale: What will happen when the fingerlings contract diseases while they are put in cages?	Fingerlings will be kept onshore in the quarantine facility until they are big enough to be moved to the cages offshore. During the fingerling stages ongoing monitoring will be conducted to make sure that the fingerlings have no pathogens or diseases by MAWLR Directorate of Veterinary Services.

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**Appendix 4a: THREE PUBLIC MEETINGS HELD AT WALVIS BAY,
SWAKOPMUND AND LÜDERITZ DURING THE MONTHS OF JANUARY AND
FEBRUARY 2021**

ANNEX 9a: Minutes of Public Meeting held at Protea Hotel-Pelican Bay, Walvis Bay, on the Tuesday 13th January 2021.

VENUE: Protea Pelican Bay Hotel, Walvis Bay

DATE: 13th January 2021

TIME: 09h00 to 11h15

**Public Consultative Meeting for Interested and Affected Parties (I & AP): EIA
on Finfish Farming in the Atlantic Ocean**

Meeting Facilitator: Frikkie Botes (Chairperson)

I. Welcome and Announcements

FB welcomes participants to the meeting and announces

- Attendance register & registration
- COVID-19 measures – wear your mask; keep social distancing; wash your hands,
- Cell-phones on silent please
- Toilet facilities – direction
- Refreshments at the back of venue

II. Apologies

Received from: Ivo de Gouveia, Stanley Ndara, Steven Ambabi, Mr. Kakore, Clive Kambongarere; NAMPORT, Katrina Hilunda (BCC – FAO Project)

III. Introduction of participants

Frikkie Botes; Ivory Uirab; NAMPORT - ; NSI – Bonetti & Ivy (2x); Volker Paulsmeier (Brandbox GmbH) – Fishing Industry; Henning du Plessis; Koos Blaauw (Chairperson of NMA); Thomas Mausberg & Ranga Haikali (Lilongi Aqua Fishing); Ekkehard Klingelhoefter; Maria Shimhanda & Ndamona (ACS);

IV. Purpose of the meeting

FB announces that this meeting was announced in the newspapers on 18 December 2020 to indicate that Public Information Meetings are scheduled for 13 & 14 January 2021. The proponent is Lilongeni Fisg-Farming (PTY) Ltd who plans

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to embark on a mariculture finfish farming project along the Namibian coast and they have appointed Atlantic Consulting Services as the Environmental Assessment Practitioner. According to the due EIA processes the I&APS must be informed via a public meeting and Dr. Ekkehard Klingelhoefter (mention his background – Biologist @ MFMR, Director of Aquaculture, Lecturer at UNAM) will introduce his team and the Proponent.

V. Introduction of the EAP Team

EK to introduce the Atlantic Consulting Services team

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Lilongeni Fish-Farming (Pty) Ltd

Minutes of the Public Meeting of Environmental Impact Assessment (EIA) for Lilongeni Fish-Farming (Pty) Ltd held on 13th of January 2021 at Protea Hotel - Lagoon, Walvis Bay between 09:00 to 11:30



TITLE	PRESENT	DESIGNATION and POSITION
Mr	Frikkie Botes	Facilitator - Chairperson
Dr	Ekkehard Klingelhoefter	Atlantic Consulting Services - EAP
Ms	Maria Shimhanda	Atlantic Consulting Services - Expert
Ms	Ndamononghenda Kauluma	Atlantic Consulting Services - Expert
Mr	Thomas Mausberg	Lilongeni Aqua Fishing Ltd - Shareholder
Mr	Ranga Haikali	Lilongeni Aqua Fishing Ltd - Shareholder
Mr	Volker Paulsmeier	Brandbox GmbH - Managing Director
Ms	Taleninawa-Bonnettie Hatutale	Namibia Standard Institute - Quality Assurance Officer
Ms	Ivy Mutanimy	Namibia Standard Institute - Quality Assurance Officer
Mr	Henning du Plessis	Zeist Invest - Owner
Mr	Koos Blaauw	Mariculture Association - Chairman
Mr	Ivory Uirab	Ministry of Fisheries and Marine Resources - Chief Fisheries Inspector
TITLE	APPOLOGIES	DESIGNATION and POSITION
Dr	Andrea Klingelhoefter	Atlantic Consulting Services -Expert
Dr	Marion Klingelhoefter	Atlantic Consulting Services - Member
Mr	Ivo de Gouveia	Beira Investment - Director
Mr	Stanley Ndara	Fishery Observer Agency - CEO
Mr	Stefanus Gariseb	Namport – Manager SHREQ (to be present at Swakopmund Meeting)
Mr	Aweh Kakora	Chairperson of the Large Pelagic Association
Mr	Steven Ambabi	Deputy Director – Surveillance (MFMR)
Mr	Clive Kambongarera	Staff – Demersal hake Association
Mr	Katrina Hilundwa	Deputy Director – Surveillance (MFMR)

VI. Introduction of the Proponent Lilongeni Fish-Farming (PTY) Ltd

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Atlantic Consulting Services (Aquatic and Terrestrial CC/2021/0384
Dr Ekkehard Klingelhoefter

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EK to introduce the proponent

VII. Presentation on the envisaged project (see EK's PowerPoint presentation)

EK to give his presentation.

VIII. Open session: Questions and Answers (FB facilitates this session)

EK - All questions and Concerns will be noted, and proper feedback will be provided if it cannot be addressed during the meeting.

Annex 9a: Minutes of Public Meeting held at Protea Hotel-Lagoon, Walvis Bay on the Tuesday 13th January 2021.

**Full attendance register with signatures attached (Appendix 7).
Invitation letters were sent via email to the Chairpersons of the Fishing Associations and the Namibia Standards Institute (NSI) that are based in Walvis Bay:**

- Demersal Hake Association (Mr Ron Walters)
- Midwater Trawl Association (Mr Carlson)
- Demersal Monk and Sole Association (Mr Peya Hitula)
- Large Pelagic Association (Mr Kakora)
- NRSAA Line-fish Sector (Mr Simon Anderson)
- NSI (Mrs Paloma Ellitson)

By word of mouth and hand delivered letters were issued to:

- MFMR – the Inspectorate
- NMA – mariculture Association

THE MEETING RESOLVED AND AGREED ON THE FOLLOWING ASPECTS:

NO	ORIGINATOR	AGENDA	MINUTES of the MEETING
1.0	FB	Welcome	1.1 The chairperson welcomed everyone present and called the meeting to order.

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			<p>1.2 The Meeting commenced at 09:00 through face-to-face interaction.</p> <p>1.3 The COVID 19 directives were to be adhered to.</p>
2.0	EK	Apologies	<p>2.1 The Chairperson gave apologies for the public participants (Stakeholders) and the EAP team members who could not be present for today's meeting</p>
3.0	EK	Remarks from EAP	<p>3.1 The EAP introduced his Team and welcomed all stakeholders present.</p> <p>3.2 The meeting this morning was to deliberate on the EIA for Lilongeni Aqua Fishing Ltd (Proponent).</p> <p>3.3 Lilongeni took a bold decision to develop the first finfish mariculture farming the Atlantic Ocean of Namibia.</p> <p>3.4 The proposed fish species to be farmed with are: <i>Argyrosomus inodorus</i> (Silver kob), <i>A. coronus</i> (Dusky cob), <i>Seriola lalandi</i> (Yellowtail Kingfish) and <i>Salmo salar</i> (Salmon).</p> <p>3.5 Interested and affected parties have been notified about the EIA for Lilongeni Fish Farming (Pty) Ltd via the newspaper adverts placed into The Namibian Newspaper and the Namib Times on the 18th of December 2020.</p> <p>3.6 The Proponent needs to get inputs, comments and views of the public (external stakeholders).</p>
4.0	EK	Presentation	<p>4.1 Introduction: Brief Overview</p> <p>i) The purpose of this event was to get input from the public participants (stakeholders), to ensure transparency on the intentions of Lilongeni Fish Farming (Pty) Ltd. in order to avoid conflicts.</p> <p>ii) Thus, the EIA processes addresses all the relevant issues required by the Proponent (Lilongeni Fish Farming (Pty) Ltd) which needs to meet all the necessary requirements (as per Act and Regulations of MEFT + MFMR), before they are issued an Environmental Clearance Certificate.</p> <p>iii) The meeting to deliberate on the EIA for the proposed finfish cage farming operation west of Walvis Bay proposed by Lilongeni Fish Farming (Pty) Ltd</p> <p>4.2 The screening process was already carried out and the documents have been submitted to the Environmental Commissioner (EC) in the Ministry of Environment, Forestry and Tourism (MEFT).</p> <p>4.3 The global "Capture Fishery" is showing a decreasing trend over the past 3 decades and</p>

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			<p>Aquaculture in contrast is showing an exponential increase in both fresh water and marine species. The world demand for fish is ever on the increase.</p> <p>i) In the SADC region, South Africa is the only country which is currently practising finfish farming in cages for <i>Argyrosomus japonicus</i> (Dusky cob).</p> <p>ii) In Namibia the focus is currently more on marine shellfish farming i.e. oysters and abalone as well as algae - to date there is no finfish farming, hence Lilongeni Fish Farming (Pty) Ltd. decided to be the first company to venture into marine finfish farming.</p> <p>4.3 There is a potential for finfish farming in Southern Africa of especially Yellowtail Kingfish (15 000mt per annum) as it is of high value; the target market for this species will be the Asian Countries, while as for the Silver and Dusky Cob (5 000 mt per annum) will be mainly exported to Germany with limited portion for the Namibian market.</p> <p>4.4 The two sites proposed by the Proponent are situated in Walvis Bay area which will be referred to as Site A and Site B (north and south of 23 degree Latitude South). A third Site C was also identified by the Proponent off Luederitz where Salmon are to be farmed. An alternative site off Oranjemund will be referred to (Site D).</p> <p>4.5 The pros and cons for <u>Site A</u> are as follows:</p> <p>Pros</p> <ul style="list-style-type: none"> • Ideal site as it is close to the Walvis Bay harbour • Presence of good infrastructure for fish processing purposes • International airport present for exporting the processed fish products • Availability of skilled labour force • Ideal site for anchoring the cages as it is less than 100 m sea depth. <p>Cons</p> <ul style="list-style-type: none"> • An area which is prone to anoxia during late summer • Presence of the cyclic sulphur eruption • Proposed phosphate mining could negatively impact the operation
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			<ul style="list-style-type: none"> • Red tides which lead to fish kills • Vicinity of the current Merchant Vessels parking bay (potential pollution) • No mitigation: the risk of losing capital investment is very high <p>4.6 The pros and cons of <u>Site B</u> are as follows</p> <p>Pros</p> <ul style="list-style-type: none"> • The proximity to Walvis Bay is ideal for finfish cage farming • Presence of good infrastructure for fish processing purposes • International airport present for exporting the processed fish products • Availability of skilled labour force • Ideal site for anchoring the cages as it is less than 100 m sea depth. • Area offshore is in the vicinity of the spawning ground for other fish species which indicates an ideal environmental <p>Cons</p> <ul style="list-style-type: none"> • Late summer cyclic anoxia conditions (oxygen levels < 1ml/l upwelled to surface waters) • Presence of sulphur eruption • Proposed phosphate mining south of 23 degree Latitude can negatively impact the operation • Presence of sporadic red tides • Mitigation: <ul style="list-style-type: none"> i) the Proponent advised to go further offshore at 200 m sea depth (45 nm offshore) which is not convenient for anchoring the cages as it is too deep. ii) Anoxic levels offshore are negligible <p>4.7 The EAP resolved that Lilongeni Fish Farming (Pty) Ltd. should Move to Site C which is close to Lüderitz which is a more convenient area as there the sea depth is conducive for anchoring the fish cages (<100m) and there is no presence of sulphur eruptions and red tides.</p> <p>4.8 It was further highlighted that Site C lies within the Marine Protected Area (MPA); however, the Namibia Island Protected Area Act of Act (NIMPA Dec 2012) does make provision that Aquaculture</p>
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			operations can be conducted in the MPA if all relevant risks are identified and mitigated.
			4.9 Offshore: cage farming and Inshore: Quarantine and fish processing facility
5.0	EK	Negative and Positive Impacts	<p>5.1 The negative impacts that <u>might arise</u> due to the establishment of the proposed finfish farm are outlined below:</p> <ul style="list-style-type: none"> • The suspended cages could obstruct migratory routes of the marine mammal species • Fish escapees from cages could lead to inbreeding • Pathogens import of Atlantic salmon species) <p>5.2 The positive impacts of the proposed finfish farm are outlined below:</p> <ul style="list-style-type: none"> • MFMR Ministry has in place the Import and Export Regulations which are to be followed and adhered to • Namibia Stand Institute (NSI) checks for the quality of the exported products • The project will contribute to Namibia's GDP • Will encourage and stimulate future finfish farming in Namibia • Internship opportunities for students • Provide bursary/scholarships for students at tertiary level (e.g. BSc., MSc. & PhD) • Create Employment to an impoverished town

NOTE: The Presentation and List of participants is hereby attached.

1. Comments, Questions, Concerns Raised By : Mr Ranga Haikali of Lilongeni Fish Farming (Pty) Ltd

1.1 Comments on Environmental Scoping Report: Mr Haikali explained the meaning of "Lilongeni" which is an oshiwambo word when translated into English it means: **"to learn and acquire knowledge"**, thus the Proponent today would like to hear from the Public more about the pros and the cons, the do's and don'ts of their Finfish cage operation in the Atlantic ocean.

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1.2 Mr Haikali further applauded the shellfish farmers who have ventured into the mariculture industry and hung on over the years irrespective of the sulphur eruptions and toxic red tides. He requested all the present stakeholders to feel free to give their comments, be it positive or negative – they the Proponent are here to listen. All inputs will be documented by the Secretary and be addressed in the EIA / EMP report.

ISSUE/COMMENT	RAISED BY: Mr R. Haikali	RESPONSE FROM EK & TB (NSI)
<p>a) What is the danger of the proposed finfish farming interfering with vessels traffic on the proposed Sites B and C ?</p> <p>b) How can the Proponent avoid the:</p> <ul style="list-style-type: none"> • Natural occurrence of sporadic sulphur eruptions, red tides and anoxic conditions especially at Site B, • Potential pollution and diseases that may result from the farming fish in cages e.g. fish feed, faeces, net damage and the import of fingerlings 		<p>a. At Site B all cartographic ocean maps need to clearly indicate the fish cage operation; at Site C the shipping lanes are west of the islands i.e. at sea depth of 150m plus.</p> <p>b. Recommend that:</p> <ul style="list-style-type: none"> • The alternative would be to move Site B (i) far offshore i.e. to ca 45nm at 200m depth (not a practical option to secure the nets) Site B(ii) • Introduction of new fish into an environment leads to a potential of new diseases, but the MAWLR (Directorate veterinary Services) and the Namibia Standard Institute (NSI) safeguard the potential of all non-indigenous fish species or any other product that is imported into the country (there are strict control measures in place e.g. 1 month quarantine, Veterinarian import and export certificates etc.) • The possible pollution by Lilongeni Fish Farming (Pty) Ltd. could result from the excess of unused fish feed and fish faeces which leads to eutrophication. The solution would be to tow the cages to a new site from time to time where

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<p>c) Does the Ministry of Agriculture, Water and Land Reform (MAWLR) approve any imported feed and seedlings?</p>		<p>currents are weak. However, along the Namibian coast these residues would be deflected offshore to deeper waters by the strong pulsating Benguela current and add to ocean enrichment.</p> <ul style="list-style-type: none"> • There will be a control room with a person who will be monitoring any movement or faults that may arise on the fish cages via sensors that will trigger an alarm (early warning system) from the Service vessel that is stationed at the fish cage farm. <p>Any fish feed imported into the country has to be approved and registered by the Ministry of Agriculture (MAWLR); the import of fry/smolt/fingerlings will need to be placed into quarantine for at least 1 month and tested for potential pathogens by MAWLR the Directorate of Veterinary Services</p>
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2. Comments, Questions, Concerns Raised By: Zeist Invest		
ISSUE/COMMENT	RAISED BY: Mr Henning du Plessis	RESPONSE
<p>a) Mr HduP stated that the oyster companies had to learn the hard way and that he was willing to assist the Proponent based on his many years of experience in the mariculture industry within the Walvis Bay zoned Aqua Park.</p> <p>b) He suggested that the Proponent venture into</p>		<p>The advice and caution of Mr HduP has been duly noted and will be taken into consideration.</p>

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<p>farming with finfish that are of high value and that will bring in high income e.g. Bluefin Tuna.</p> <p>c) He further emphasised that this is a project of high magnitude thus the Proponent should start small by doing a pilot study at least for the first three (3) years.</p> <p>d) Mr HduP concluded that he is in support of this Project.</p>		
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3. Comments, Questions, Concerns Raised By: Namibia Mariculture Association

ISSUE/COMMENT	RAISED BY: Mr Koos Blaauw	RESPONSE EK and FB
<p>Mr Blaauw raised the following questions:</p> <p>a) It is reported that the Norwegian Atlantic Salmon has a skin disease; what is the probability of salmon infecting other fish and shellfish at the proposed sites?</p>		<p>a. The Norwegian's have opened up a sister company in Chile; at the moment they are not sure of the exact cause that is affecting their Salmon; Fingerlings (smolt) will be imported from disease free countries e.g. Iceland and Scotland.</p> <p>b. Mr Botes: The regulations for the Import and Export states that all live animals imported into the country should be disease free (strict</p>

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		<p>protocols are in place to avoid this).</p> <p>c. The animal (i.e. smolt) will be quarantined for observation before released into the Namibian environment.</p>
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4. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)

ISSUE/COMMENT	RAISED BY: Mr Ivory Uirab	RESPONSE
<p>a). The Mariculture Finfish farming will be new and the first of its kind in Namibia, meaning that MFMR will have to amend its laws to suit the finfish farming industry.</p> <p>b). The Government Fisheries inspectors and the NSI quality assurance officer's will be present during the period of harvesting the fishes from the cages to inspect for the presence of fish pathogens and to ensure that the correct methods have been followed during the harvesting process.</p> <p>c). Once the inspection has been carried out by NSI and MFMR they sign it off and give the clearance for the products to be exported out of Namibia.</p> <p>d). Mr Ivory advised the Environmental Assessment Practitioner (EAP) to engage with the Minister and the Executive Director (ED) of MFMR from an early stage.</p>		<p>Mr Ivory's comments have been noted down with thanks.</p>

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5. Comments, Questions, Concerns Raised By: Lilongeni Fish Farming (Pty) Ltd.		
5.1. Comment on Environmental Scoping Report		
ISSUE/COMMENT	RAISED BY: Mr Haikali	RESPONSE – by NSI, EAP, Chair
<p>a). There is a company by the name of SGS which is the world’s leading inspection, verification, testing and certification Company.</p> <ul style="list-style-type: none"> • SGS is recognized as the global benchmark for quality and integrity. • SGS has also engaged in observing satellite monitoring of fish escapees, and early warning of any potential danger. <p>c). NSI to make links and seek co-operation with SGS company.</p> <p>d). Is it possible from an operational view point to place fingerlings into cages?</p> <p>e). The possibility of cannibalism of large fish on the smaller fish – how can this be prevented in the cage culture?</p>		<p>a. SGS is a commercial company therefore SGS will have to sign an MOU with NSI.</p> <p>b. NSI officials advised that using their services will cut cost as compared to using SGS. There was no need to engage with SGS as the NSI is the registered Competent Authority that will deal with all export of fish products.</p> <p>c. Every month the cages are stocked with fish of the same size (thus no cannibalism). The cages are used for grow-out purposes only and the hatchery on land will be used to rear fingerlings.</p> <p>d. The Salmon Smolts will be in hatchery where both freshwater and saltwater will be made available.</p> <p>e. Mr Botes also responded by informing the Proponent that the testing of shellfish and fish related products the MFMR regulations states that the tests should be carried out by NSI and the MFMR to ensure that the</p>

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		<p>minimum requirements are met.</p> <p>f. The Proponent is advised to familiarise themselves with the MFMR's Aquaculture Act and Regulations.</p>
5.2.Additional Comments		
<ul style="list-style-type: none"> The EAP advised that, for the first five (5) years the proponents should import their fingerlings (smolt) while constructing their fish hatcheries. Thereafter, to venture into the production of fry for the Silver and Dusky cob and the Yellowtail Kingfish. The Proponent will have to set up a quarantine facility for their imported smolts as per the Aquaculture Import and Export Regulation of 2012. 		

6.0	FB	Any Other Business	6.1 It was agreed that the Proponent with guidance from the EAP plan for the Public Meeting in Lüderitz (Alternative Site C).	
7.0	FB	Adjournment	<p>7.1 The Chairperson thanked the stakeholders for the valuable inputs they provided during the meeting.</p> <p>There being no other business, the meeting adjourned at 11:14</p>	Approved

QUESTIONS

- Mr. Ranga Haikali introduced himself and addressed the meeting participants – his second name is Lilongeni (you must learn & acquire knowledge). He was born in WVB, was involved in the commercial fishing industry. Acknowledges all involved in mariculture. Requests the house to please feel free to raise concerns regarding the project. They need constructive inputs from all – industry, regulators, quality controllers etc. and they need information on areas like:
 - What is / will be the impact of vessel traffic on the cages?
 - What will be the adaptability of foreign fish species (e.g. Atlantic salmon) with the local conditions i.e. temperature, Sulphur, pollution, etc.?
EK's response: any introduction of species have the possibility of introducing pathogens. Salmon will not be exported – only the product.

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MFMR has proper regulations that will provide for mitigation procedures.
Pollution – we have pollution in the Namibian waters and vessels have a big carbon footprint. Sea cages will have an impact = eutrophication / added nutrients from uneaten fish feed and faeces. There will be impact from the cages, but technology exists to make mitigating actions.

- Henning du Plessis: he advised 4 persons when he was still involved with oysters and 2 of them listened, and 2 did not listen and went close to bankrupt. His advice to Lilongeni – he has learnt a lot during his tenure e.g. anchoring, cages, vessel design etc. Things to be looked at include the species to be farmed with; start small and do a pilot project in the beginning.

- Koos Blaauw: about disease in salmon in Norway – what do we know about salmon diseases and how will this be checked?

EK's response – there are known diseases and pathogens in Norwegian waters on salmon and it may be due to water conditions. Some Norwegian farmers are opening sister farms in Chile (?)

- Mr. Ranga Haikali – as a follow up: can you have two cages next to each other for quarantine purposes of fingerlings / smolt from the land-based hatchery? If you are farming in the ocean with fish – what are the regulations (MFMR & NSI) regarding harvesting, processing and marketing of fish?

NSI – they only get involved from the product and processing. The product must be tested according to NSI regulations.

FB – the MFMR colleagues will be able to answer this (quarantine issues) tomorrow at the IAP meeting in Swakopmund.

Ivory Uirab (MFMR) – from operations side and inspections: this will need to be considered by the MFMR and have to look at the Acts and Regulations. There will need to be changes in future.

Ranga Haikali - asked the NSI regarding technology of SGS (General Society of Surveillance) – Food Safety regarding fish farming?

NSI's response: SGS is a commercial laboratory and only tests for certain parameters but some tests can only be done by the NSI.

FB's response – all end product must be tested by an accredited laboratory and the product must meet the minimum standards and requirements of the importing country.

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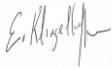

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- Frikkie Botes – advised the proponent to get a copy of the Namibian Marine Spatial Plan (MSP) which is currently in its final stages and which was submitted to the EDs of all relevant Ministries.
- Ranga Haikali – is it possible from a commercial view to import fingerlings from the supplier and put them in a cage and then put the 2nd generation in the other cage? How to prevent cannibalism in the cages - operational risks?
 - EK's response – stocking will be done with 2nd generation from the land based hatchery and similar size will be stocked regularly to the cages thus minimizing cannibalism.

Closure

FB thanked all the participants for their presence and contributions towards the meeting.

The meeting closed at 11h30.

CONFIRMATION AND SIGN OFF OF MEETING					
Minutes Confirmed as True record of the 2021,			Public Meeting held on the 13 th of January at Protea Hotel (Pelican Bay), Walvis Bay		
Name	Designation	Signature	Chairperson	Designation	Signature
Ekkehard Klingelho effer	Team Leader EAP of: Atlantic Consulting Services CC 2021/03824		Frikkie Botes	Private – Pensioner (Ex staff of MFMR Directorate of Aquaculture)	
Minute Taker			Other Member Present/ Witness		
Member's Name	Designation	Signature	Member's Name:	Designation	Signature
Nadmono nghenda Kauluma	Atlantic Consulting Services -Minute taker Team of Experts		Mr K Blouw	Chairperson of Namibia Mariculture Association	

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**Appendix 4b: THREE PUBLIC MEETINGS HELD AT WALVIS BAY,
SWAKOPMUND AND LÜDERITZ DURING THE MONTHS OF JANUARY AND
FEBRUARY 2021**

Annex 9b: Minutes of Public Meeting held at NatMIRC Auditorium, Swakopmund, on
the Tuesday 14th January 2021.

Commented [KE1]:

Lilongeni Fish-Farming (Pty) Ltd

Minutes of the Public Meeting of Environmental Impact Assessment (EIA) for
Lilongeni Fish-Farming Pty. Ltd held on 14th of January 2021 at NatMIRC (MFMR),
Swakopmund - between 09:00 to 11:07

Lilongeni Fish-Farming (Pty) Ltd



Title	ATTENDEES/PARTICIPANTS	INITIAL	DESIGNATION AND POSITION
Mr	Frikkie Botes	FB	Facilitator – Chairperson
Dr	Ekkehard Klingelhoefter	EK	Atlantic Consulting Services – EAP
Ms	Ndamonoghenda Kauluma	NK	Atlantic Consulting Services – Expert

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Ms	Maria N. Shimhanda	MNS	Atlantic Consulting Services – Expert
Mr	Thomas Mausberg	TM	Lilongeni Aqua Fishing Ltd – Shareholder
Mr	Ranga Haikali	RH	Lilongeni Aqua Fishing Ltd – Shareholder
Mr	Manuel Romero	MR	Beira Aquaculture – Director
Mr	Mike Scott	MS	African Conservation Services – Member
Mrs	Ann Scott	AS	African Conservation Services – Member
Mr	S. Gariseb	SG	NAMPORT - SHEQ Manager
Mr	Stephanus Hamukwaya	SH	Ministry of Fisheries and Marine Resources - Fisheries Biologist
Ms	Saskia Kisting	SK	Ministry of Fisheries and Marine Resources - FRT
Mr	Ruan Cowan	RC	Ministry of Fisheries and Marine Resource: Aquaculture - Fisheries Biologist
Mr	Georgie	G	FERMAR - Aquaculture expert
Mr	Victor Libuku	VL	Ministry of Fisheries and Marine Resources - Biologist
Ms	Charmaine Jagger	CJ	Ministry of Fisheries and Marine Resources - Biologist
Ms	Anja Van Der Plas	AVDP	Ministry of Fisheries and Marine Resources - Senior Scientist
Mr	Richard Horaeb	RH	Ministry of Fisheries and Marine Resources - Senior Biologist
Ms	Bronwen Currie	BC	Ministry of Fisheries and Marine Resources - Retired
Mr	Tasser Bisus	TB	Paulbo

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Mr	Ivory Uirab	IU	Ministry of Fisheries and Marine Resources - Chief Fisheries Inspector
Mr	Tobias Endjambi	TE	Ministry of Fisheries and Marine Resources - Biologist
Ms	Scalia Shilongo	SS	Ministry of Fisheries and Marine Resources - Fisheries Technician Research
Mr	F. Hamukwaya	FH	Ministry of Fisheries and Marine Resources - Fisheries Technician
Dr	Anja Kreiner	AK	Ministry of Fisheries and Marine Resources - Chief Fisheries Biologist
Ms	Josephine Edward	JE	Ministry of Fisheries and Marine Resources - Fisheries Biologist
Ms	Penthecia Kalonda	P	Ministry of Fisheries and Marine Resources - Chief Fisheries Research Technician
Mr	J. Ruther	JP	Ministry of Fisheries and Marine Resources - Senior Fisheries Biologist
Dr	P. Kainge	PK	Ministry of Fisheries and Marine Resources - Chief Fisheries Biologist
Ms	K. She	KS	Ministry of Fisheries and Marine Resources - Senior Fisheries Biologist
Mr	T. Nghwada	TN	Ministry of Fisheries and Marine Resources - Fisheries Biologist
Mr	J. Gei-Khaub	JG-K	Ministry of Fisheries and Marine Resources - Statistician
Ms	H Skrypzeck	HS	Ministry of Fisheries and Marine Resources - Chief Fisheries Biologist
Dr	Beau Tjizoo	BT	Ministry of Fisheries and Marine Resources - Chief Fisheries Biologist

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Mr	Tony Raw	TR	Benguela Ski boat Fish Association – Member
Dr.	John Kathena	JK	Ministry of Fisheries and Marine Resources - Senior Fisheries Biologist
APOLOGIES			
Mr	Deon Louw	DL	Ministry of Fisheries and Marine Resources - Phytoplankton Expert
Dr	Marion Klingelhoefter	MK	Atlantic Consulting Services – Member
Dr	Andrea Klingelhoefter	AK	Atlantic Consulting Services -Expert

THE MEETING RESOLVED AND AGREED ON THE FOLLOWING ASPECTS: -

NO.	WHO	AGENDA	MINUTES OF THE MEETING
1.0	FB	Welcome	1.4 The chairperson welcomed everyone present and called the meeting to order. 1.5 The Meeting commenced at 09:15 through face-to-face interaction. 1.6 Due to COVID 19 regulations the meeting will need to adjourn at 11h15
2.0	EK	Apologies	2.1 There were three (3) apologies noted (listed above)
3.0	EK	Remarks from the EAP	3.1 The meeting deliberated on the EIA process. 3.2 The Proponent undertook a <u>feasibility study</u> and came up with <u>four (4) alternative sites</u> proposed for finfish farming. This will be a mega investment and will have mega infrastructure in place with an estimated production of 35 000 metric tonnes (MT). Today the focus will be on Sites A + B near Walvis Bay.

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			<ul style="list-style-type: none"> • Site A – north of Walvis Bay (22° 50' 8" Latitude South and 14° 24' 13" Longitude East) – detail presentation • Site B – south of Walvis Bay (23° 00' 20" Latitude South and 14° 20' 56" Longitude East) – detail presentation • Site C – west of Lüderitz (26°37'40" Latitude South and 15°01'53" Longitude East)- referred to • Site D – inshore true west of Oranjemund (28°41'27" Latitude South and 16°17'25" Longitude East) – referred to but not an option <p>3.3. Why this Project? The directorate of Mariculture was established in 2004 with offices in Lüderitz, Swakopmund and Windhoek but to date the mariculture finfish farming has not yet begun in Namibia.</p> <p>3.4 The purpose of today is to engage with the public and the affected stakeholders to avoid possible conflicts and the need for transparency from the inception of this Project.</p> <p>3.5 The Proponent has <u>identified four species</u>: three (3) indigenous (<i>Argyrosomus inodorus</i>, <i>A japonicus</i> & <i>Seriola lalandi</i>) and one non-indigenous species (<i>Salmo salar</i>) which all are destined for the export market.</p>
4.0	EK	Presentation of the proposed fin fish culture by the EAP	<p>4.1 The capture fisheries alone cannot sustain the world globally due to the increase in human population (an ever increase in the demand for fish).</p> <p>4.2 In Namibia shellfish and algae farming has been established but no finfish farming to date.</p> <p>4.3 Two proposed sites are situated in Walvis Bay which are referred to as Site A and Site B.</p> <p>4.4 The pros and cons <u>for Site A</u> are as follows: Pros</p> <ul style="list-style-type: none"> • Ideal site as it is close to the Walvis Bay harbour • Presence of good infrastructure for fish processing purposes • International airport present for exporting the processed fish products • Availability of skilled labour force • Ideal site for anchoring the cages as it is less than 100 m sea depth.

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		<p>Cons</p> <ul style="list-style-type: none">• An area which is prone to anoxia during late summer• Presence of the cyclic sulphur eruption• Proposed phosphate mining could negatively impact the operation• Red tides which lead to fish kills• Vicinity of the current Merchant Vessels parking bay (potential pollution)• No mitigation: the risk of losing capital investment is very high <p>4.5 The pros and cons of <u>Site B</u> are as follows</p> <p>Pros</p> <ul style="list-style-type: none">• The proximity to Walvis Bay is ideal for finfish cage farming• Presence of good infrastructure for fish processing purposes• International airport present for exporting the processed fish products• Availability of skilled labour force• Ideal site for anchoring the cages as it is less than 100 m sea depth.• Area offshore is in the vicinity of the spawning ground for other fish species which indicates an ideal environmental <p>Cons</p> <ul style="list-style-type: none">• Late summer cyclic anoxia conditions (oxygen levels < 1ml/l upwelled to surface waters)• Presence of sulphur eruption• Proposed phosphate mining south of 23degree Latitude can negatively impact the operation• Presence of sporadic red tides• Mitigation:<ul style="list-style-type: none">i) the Proponent is advised to go further offshore at 200 m sea depth (45 nm offshore) which is not convenient for anchoring the cages as it is too deep.ii) Anoxic levels offshore are negligible <p>The EIA Process and why need to follow this path of consultations:</p> <p>4.6 The EAP continued to provide an overview on the Environmental Impact Assessment (EIA) for the proposed</p>
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		<p>finfish cage farming operation west of Walvis Bay by Lilongeni Aqua Fishing Ltd.</p> <p>4.7 The EAP further stressed that the purpose of this event is to get input from the Public participants (stakeholders), thus there should be transparency and to avoid conflict. Thus, the EIA processes addresses all possible environmental issues that may be impacted by the fish cage culture; the Proponent (Lilongeni Aqua Fishing Ltd) needs to meet all the necessary requirements (risk mitigation where necessary) before they are issued a clearance Certificate.</p> <p>4.8 The Screening process (Stage 1) was carried out and the BID has been submitted to the Environmental Commissioner (EC) online on 11th November 2020 of the Ministry of Environment, Forestry and Tourism (MEFT).</p> <p>4.9 The global “<u>Capture Fishery</u>” is showing a decreasing trend over the past 3 decades and Aquaculture in contrast is showing an exponential increase in both fresh water and marine species. The world demand for fish is ever on the increase.</p> <p>i) In the SADC region, South Africa is the only country which is currently practising finfish farming in cages for <i>Argyrosomus japonicus</i> (Dusky cob).</p> <p>ii) In Namibia the focus is currently more on marine shellfish farming i.e. oysters and abalone as well as algae - to date there is no finfish farming, hence Lilongeni Aqua Fishing Ltd. decided to be the first company to venture into marine finfish farming.</p> <p>iii) There is a potential for finfish farming in Southern Africa of especially Yellowtail Kingfish (15 000mt per annum) as it is of high value; the target market for this species will be the Asian Countries, while as for the Silver and Dusky Cob (5 000 mt per annum) will be mainly exported to Germany with limited portion for the Namibian market.</p> <p>In conclusion:</p>
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			<p>4.10 <u>Site C</u> proposed by the Proponent was envisaged for the extension of the Walvis Bay operation and to focus there on farming only with the Atlantic Salmon. However, the EAP resolved that Lilongeni Aqua Fishing Ltd. should move <u>the entire operation</u> to <u>Site C</u> which is close to Lüderitz; the advantages include:</p> <p>i) the entire operation for all species will be at one site which from a management and financial aspect will be more cost effective</p> <p>ii) Lüderitz town has all major facilities in place e.g. good infrastructure, functional operating harbour, airport, good rail and road infrastructure etc.</p> <p>iii) the sea depth at Site C is less than 100m which is suitable for anchoring the cages</p> <p>iv) due to the strong Lüderitz upwelling cell red tides, anoxic events and sulphur eruptions are not recorded in this area</p> <p>4.11 <u>Site C</u> lies within the Marine Protected Area (MPA); however, the Namibian Islands' Marine Protected Area (NIMPA) (No. 316 of 2012) does make provision that <u>aquaculture activities</u> may be permitted to operate in this zone (but outside Zone 3 co-ordinates) provided that all potential risks have been addressed.</p> <p>4.12 Onshore operations will include: fish processing facility, storage of feed, fingerling quarantine facility for imported salmon, hatchery for the production of fingerling's, office complex</p> <p>4.13 In conclusion: Let Namibia be the first and contribute to the "Blue Economy"</p>
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1. Comments, Questions, Concerns Raised By: Lilongeni Fish Farming (Pty) Ltd.		
1.1. Comment on Environmental Scoping Report		
ISSUE/COMMENT	RAISED BY: Mr Ranga Haikali	RESPONSE by FB
<ul style="list-style-type: none"> Mr. Haikali commented that Lilongeni Fish Farming (Pty) Ltd is 		The Chairperson Mr Frikkie Botes thanked Mr Haikali for

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<p>here to learn from the experts from various fields and backgrounds. There is <u>no project</u> that has embarked into the marine finfish farming in Namibia to date.</p> <ul style="list-style-type: none"> • Lilongeni Fish Farming (Pty) Ltd is here to learn from the experts about the do's and don'ts • Mr Haikali explained what the meaning of Lilongeni is which refers to – eager to learn • Due to COVID-19 food commodity has been affected thus as Namibians we need to be self-sustainable and produce our own foods instead of relying on imports from our neighbouring countries. • Norway, Iceland, Chile, Scotland, etc. are some of the few countries who are doing well for themselves when it comes to Mariculture (finfish). • The proposed species are not destined for the local market; the Proponent stated that there was no need to compete with the Namibian commercial farmers supplying fish to the local markets. 		<p>the comments and opened the floor for questions from the audience.</p>
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2. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources

ISSUE/COMMENT	RAISED BY: Dr Anja Kreiner	RESPONSE by Dr EK
<ul style="list-style-type: none"> • Dr Kreiner commented that if <u>Site B</u> is to be chosen which will be at 45 nm offshore at a 200m sea depth the Proponent will need to take into consideration the impacts this operation will have on the oceanographic parameters (chemical and biological) on the long-term monitoring line on 23 		<ul style="list-style-type: none"> • The points raised by Dr Kreiner on the potential impacts that the operation will have on the 23 degree monitoring line were recognized by the EAP and noted.

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<p>degree Latitude. Will the mega cage culture change environmental parameters in this region and if so to what extent? Will the Proponent be able to ID the possible effects that the cage culture will have on the environment? The consultants of the proposed Phosphate mining were not able to explain this aspect i.e. the effects of mining in this area on:</p> <ul style="list-style-type: none"> i) The fish nursery grounds ii) The long-term oceanographic parameters on 23 degree latitude <ul style="list-style-type: none"> • In addition, this cage culture can hinder movements of the fishing vessels and merchant vessels operating in this area 		<ul style="list-style-type: none"> • The shipping lanes in the proposed new site offshore will be investigated through Walvis Bay NAMPORT.
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3.Comments, Questions, Concerns Raised By: Benguela Ski Boat Fishing Association		
ISSUE/COMMENT	RAISED BY: Tony Raw	RESPONSE by Dr EK
<ul style="list-style-type: none"> • Lilongeni Aqua Fishing is to be complimented for taking the first step to venture into the finfish farming industry. • He further stated that in the presentation he has not seen any information on the correlation between the existing inshore (< 200m) and offshore (> 200m) fishing, as well as migratory routes, and the proposed fish cage culture operation. Clear navigational demarcation must be provided. • Mr. Raw raised the following question: 		<p>Dr. E. Klingelhoefter responded as follows:</p> <ul style="list-style-type: none"> • Demarcation of the area to be operated in ca 2 500 ha and possible overlaps with current fishing vessels will be investigated. • The pollution aspect e.g. eutrication will be addressed in the EIA report • The Proponent has assured that 95% of the fish to be farmed with

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<p>Is there any oil pollution contingency plan that will guide against the pollution of waters and what will the possible impacts on the project be??</p> <p>ii) The Lilongeni Aqua Fishing project is requested to please not swamp the Namibian market with fish as this will negatively impact on the current ski boat line fishery business as Namibia is their market</p>		<p>will be destined for the export market</p>
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4. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)

ISSUE/COMMENT	RAISED BY: Dr Beau Tjizoo	RESPONSE by Dr EK
<p>a) What is the source of feed for the proposed fish species?</p> <p>b) What is the spatial coverage of the project? The site should be north of the 23 degree line.</p> <p>c) If diseases arise what vaccinations will be used?</p>		<p>a) The source will be from Hermanus Feeding Company (South Africa); they specialize in tailor made feed for each particular fish species and age. Once the Ministry of Agriculture has approved the feed it will be listed on their register.</p> <p>b) The spatial coverage area is ca 500 hectares (ha) and the Directorate of Maritime Affairs will be informed of the specific site to be included in mapping.</p>

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		<p>c) When importing any live fingerlings into Namibia, they need to be free from diseases/pathogens before they enter the country. There are protocols in place from the export and the import country that need to be adhered to. In addition, all live organisms imported into Namibia will need to be placed under quarantine prior to being released into the Ocean.</p>
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5. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)

ISSUE/COMMENT	RAISED BY: Mr Stephanus Hamutenya	RESPONSE by BC
<p>Mr Hamutenya raised the following questions:</p> <p>a) How will the Proponent handle the situation at the two proposed sites A + B once a Sulphur eruption takes place?</p>		<p>Response from Ms Bronwen Curie:</p> <ul style="list-style-type: none"> • The closer the cages are to the shore the more the risk of the Sulphur eruption. • Moving 200m sea depth (ca 45 nm) far offshore would be the way to go. • The Proponent should find out the critical oxygen levels for the three different proposed fish species of

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		<p>interest through literature study.</p> <ul style="list-style-type: none"> • Unless the Proponent will have a plan of action in place to move the fish cages during sulphur eruptions and red tides, only then can they consider the two proposed sites (A&B). • Yellowtail kingklip is readily abundant in the South (Lüderitz area)

6. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)

ISSUE/COMMENT	RAISED BY: Mr Victor Libuku	RESPONSE by Dr EK
<p>He raised the following questions:</p> <ul style="list-style-type: none"> • On the issue of medication, how will the medication be monitored and will a baseline be established beforehand regarding the impact of vaccines and chemicals that will be used by the project? And how will it affect the other fish in the natural ecosystem? • Mr. Libuku's concern is that the Proponents need to consider the waste impact on the environment from feeding the fishes. 		<ul style="list-style-type: none"> • Vaccines will neither be sprayed nor any other chemicals are to be used offshore at the cage culture farm. Should vaccines be used this will ONLY be onshore at the quarantine facility; • Our Ocean is very dynamic thus the waste will drift off with the currents and will not remain in one position

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<ul style="list-style-type: none"> The Proponent should also be able to calculate how 40,000MT of feed will affect the bottom dwellers. 		<p>(Eckman Transport – filament effect).</p> <ul style="list-style-type: none"> Monitoring of the seabed will be done as of day one of operation. Intern students will be accommodated to assist in surveys. However, literature states that approved fish feed that ends up as waste gets dispersed and taken up by the system.
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7. Comments, Questions, Concerns Raised By: Lilongeni Aqua Fishing Ltd.

ISSUE/COMMENT	RAISED BY: Mr Ranga Haikali	RESPONSE by AK
<ul style="list-style-type: none"> The Proponent is aware that Salmon is a non-indigenous species and all aspects to mitigate risks will be taken into consideration Currently commercial Yellowtail prices have dropped; the Proponent yesterday was recommended to look at the Blue Fin Tuna species as an alternative. The proponents are aware of all the potential impacts that the finfish farming have and they will have to find the mitigation factors. 		<p>Dr Kreiner responded as follows:</p> <ul style="list-style-type: none"> The Proponent will have to prove the impacts of potential pollutants will have on the environment e.g. from fish feed and faeces; the Proponent will be required to do desktop studies. The Proponent must provide the data to determine how far south from the 23 degree line the project site must be. They could possibly install monitoring

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		<p>buoys or current meters and monitor relevant data for maybe 1 year.</p> <p>All above pending if Site B (ii) will be considered.</p>
<p>8. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)</p>		
<p>ISSUE/COMMENT</p>	<p>RAISED BY: Ms Josephine Edward</p>	<p>RESPONSE by RH</p>
<p>Ms Edward raised the following questions:</p> <p>a) Due to the fear of the unknown has Lilongeni Aqua Fishing Ltd. considered using the Recirculating Aquaculture Systems (RAS) for the Salmon species since it is foreign species? Or have they considered the possible use of Cape salmon?</p>		<p>Mr Haikali responded as follows:</p> <ul style="list-style-type: none"> The adaptability of the Salmon species has been considered. But the Proponent has noted down the question raised by Ms Edward and will look into the RAS system.
<p>9. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)</p>		
<p>ISSUE/COMMENT</p>	<p>RAISED BY: Dr Beau Tjizoo</p>	<p>RESPONSE Dr EK</p>
<p>a) Will the hatchery be land based? b) If so, where will the hatchery be situated? c) Is the hatchery included in the EIA study?</p>		<ul style="list-style-type: none"> Yes the hatchery will be land based - however, the focus initially will be to establish a quarantine facility and future a hatchery in the future (fry / smolt to be imported).

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		<ul style="list-style-type: none"> • Should Lilongeni Fish Farming (Pty) Ltd settle for site B(ii), the hatchery will be located in Walvis Bay. • If the Proponents agree to move their Finfish Farm to site C, the hatchery will be based onshore in Lüderitz.
10. Comments, Questions, Concerns Raised By: FERMAR		
ISSUE/COMMENT	RAISED BY: Mr Georgie	RESPONSE by Dr EK
<ul style="list-style-type: none"> • From the aquaculture production view point, when working with Finfish it is important that you as a farmer need to understand that the conditions of fish in tanks, cages or ponds is different from that of fishes in their natural environment and the temperature changes accordingly. • The Feed Conversion Ratio (FCR) of 1:2 is out of the normal range. Literature revealed that the recent FCR of 1:15 will give you the best productivity. • Trials for the Salmon species do not really yield good results, this is basically due to parameters such as the water temperature. An increase in water temperature for Salmon can be detrimental thus it is important to know what the required/optimum water temperature is for the species that you are rearing. • Mr. Georgie further advised that the proponents should consider a trial or 		<ul style="list-style-type: none"> • Agree that the 1:2 FCR can be reduced through good feeding management; the ration mentioned by the EAP is the worst case scenario. • Site C (Lüderitz) has the ideal temperature ranging from 12 – 14 degrees C for proposed Salmon species. • All other comments made were noted and will be addressed.

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pilot project before commencing with the actual project instead of relying on literature.		
11. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)		
ISSUE/COMMENT	RAISED BY: Mr Ferdinand Hamukwaya	RESPONSE by FB and Dr EK
a) What procedures will be used when vaccinating the fish?		<ul style="list-style-type: none"> • The vaccines will be administered via the water or through the feed. • With the advancement of technology, a computerized system will be used to administer the vaccine
12. Comments, Questions, Concerns Raised By: Ministry of Fisheries and Marine Resources (MFMR)		
ISSUE/COMMENT	RAISED BY: Mr Stephanus Hamutenya	RESPONSE by RH
a) The Freshwater Aquaculture sector in Namibia is struggling - what made Lilongeni Aqua Fishing Ltd venture into Mariculture instead of Freshwater Aquaculture?		<ul style="list-style-type: none"> • Among those who ventured into Freshwater Aquaculture, there are currently none of them who are successful. • Lilongeni Fish Farming (Pty) Ltd is not here to test the waters they are here to invest and therefor need return on investment. • When applying for a loan these are all the things that the financial institutions take into consideration. They will ask you how are you going to repay the loan? • Lilongeni is venturing into fish that has added value.



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			<ul style="list-style-type: none"> The only way for the Freshwater aquaculture to flourish is by privatizing it instead of it being run by the government. Fresh water aquaculture fish products from Asia are currently swamping the global markets.
13. Comments, Questions, Concerns Raised By: African Conservation Services			
ISSUE/COMMENT		RAISED BY: Mr & Mrs Scott	RESPONSE
<p>a) How will the cages deter birds from getting entangled in the nets?</p> <p>b) Mr and Ms Scott advised that, if not already approached, to consider including the Albatross Task Force for their inputs.</p>			<ul style="list-style-type: none"> Mr and Mrs Scott's inputs have been noted down and for appropriate action to be taken the Proponent should contact the Albatross Task Force. The cages to be installed have bird and marine mammal repellents in place.
			<ul style="list-style-type: none">
5.0	FB	Any Other Business	<p>5.1 The meeting agreed that the Proponent with the guidance by the EAP to plan for a Public meeting in Lüderitz.</p> <p>5.2 Minutes of meeting to be made available to any I&AP.</p>
6.0	FB	Adjournment and Next Meeting	<p>6.1 There being no other business, the meeting adjourned at 11:07</p> <p style="text-align: right;">Approved</p>
			CONFIRMATION AND SIGN OFF of MINUTES

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Minutes Approved for Circulation					
Minutes Approved for Circulation			Minutes Confirmed as True record of the Meeting held on the 14 th of January 2021.		
Name	Designation	Signature	Chairperson	Designation	Signature
Ekkehard Klingelhoefter	Team Leader EAP of: Atlantic Consulting Services CC 2021/03824		Frikkie Botes	Private – Pensioner (Ex staff of MFMR Directorate of Aquaculture)	
Minute Taker			Other Member Present/ Witness		
Member's Name	Designation	Signature	Member's Name:	Designation	Signature
Nadmononghenda Kauluma	Atlantic Consulting Services -Minute taker Team of Experts		Ms Bronwen Currie	Private – Pensioner (Ex staff of MFMR Directorate of Aquaculture)	

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**Appendix 4c: THREE PUBLIC MEETINGS HELD AT WALVIS BAY,
SWAKOPMUND AND LÜDERITZ DURING THE MONTHS OF JANUARY AND
FEBRUARY 2021**

Annex 9c: Minutes of Public Meeting held at The Nest Hotel, Lüderitz on 23rd
February 2021.

Lilongeni Fish-Farming (Pty) Ltd.

Minutes of the Public Meeting of Environmental Impact Assessment (EIA) for
Lilongeni Fish-Farming (Pty) Ltd. held on 23rd of February 2021 at The Nest Hotel,
Lüderitz from 09:00 to 11:30



	Title	ATTENDEES/PARTICIPANTS	INITIAL	DESIGNATION
1	Ms	Aune Nantinda	AN	Hangana Abalone
2	Dr	Ekkehard KlingelHoefer	EK	Atlantic Consulting Services
3	Dr	Marion Klingelhoefer	MK	Atlantic Consulting Services
4	Ms	Maria Shimhanda	MS	Atlantic Consulting Services
5	Ms	Ndamonoghenda Kauluma	NK	Atlantic Consulting Services

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6	Mr	Thomas Mausberg	TM	Lilongeni Aqua Fishing Ltd
7	Mr	Ranga Haikali	RH	Lilongeni Aqua Fishing Ltd
8	Ms	Razi Kaviua	RK	Metcalfe Beukes Attorneys
9	Ms	Kasen Neliwa	KN	Marco Fishing
10	Mr	La Kassel	LK	5 Roses Aqua
11	Mr	Austin Kruger	AK	SY Zephyl
12	Mr	Tomas Nanyambe	TN	Ondjambi Aquaculture
13	Ms	Elizabeth Petrus	EP	Ministry of Fisheries and Marine Resources
14	Ms	Foibe B Ngoongulobe	FBN	Ministry of Fisheries and Marine Resources
15	Ms	Jessica Kemper	JK	Private
16	Ms	Diina Mwaale	DM	Ministry of Fisheries and Marine Resources
17	Ms	Hileni Malumbi	HM	Ministry of Fisheries and Marine Resources
18	Mr	Paulus Ngalangi	PN	Ministry of Fisheries and Marine Resources
19	Mr	Sackias S. Shimuandi	SSS	AHCA
20	Mr	Evlidie Andreas	EA	Ongoya Coastal Tours
21	Mr	Jsey Kemer	JK	Ministry of Fisheries and Marine Resources
22	Dr	K. Grobler	KG	Ministry of Fisheries and Marine Resources
23	Ms	Moiria Elia	ME	Coastways Tours
24	Ms	Aina Petrus	AP	Ondjambi Aquaculture
25	Ms	Rossie Erasmus	RE	Benguela Weather
26	Mr	Amadhila Abner N.	AAN	Ministry of Fisheries and Marine Resources
27	Ms	Kapia Saima	KS	Ministry of Fisheries and Marine Resources
28	Ms	Brigitta Fredericks	BT	Lüderitz Town Council
29	Mr	Maan Avendji	MA	Ministry of Fisheries and Marine Resources
30	Mr	Wilfred Henock	WH	Namport
31	Mr	Asser Mukapuli	AM	AHCA

1. WELCOME REMARKS

- The chairperson welcomed all government officials and the public at large for making time to be present here today at Lüderitz Nest Hotel.
- The main reason for today's gathering is to be informed on a mega fish farming project proposed by Lilongeni Aqua Fishing west of Lüderitz.
- The EAP Dr Ekkehard Klingelhoefter who is well known among GRN officials seated here as well as the mariculture fraternity.

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Atlantic Consulting Services (Aquatic and Terrestrial CC/2021/0384
Dr Ekkehard Klingelhoefter

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- Dr Klingelhoefter was very instrumental implementing the one-stop shop for parties applying for Aquaculture Licenses.

2. COVID-19 REGULATIONS

- COVID-19 regulations will be strictly adhered to during the time of this meeting according to the Government directives.
- Tea/Coffe time: 09:00 – 09:15
- The maxim time allowed for holding meetings is 2 hours as per the COVID-19 regulations.

3. NEWSPAPER ADEVERTS WITH REGARDS TO THIS PUBLIC MEETING

Interested and affected parties have been notified about the EIA public meeting for Lilongeni Aqua Fishing Ltd via the newspaper adverts placed into The Republikkein, Allgameine Zeitung and Namibian Sun Newspapers on the 29th of January 2021 and The Namibian Newspaper on the 3rd of February 2021 respectively.

4. APOLOGIES

The Chairperson gave apologies for the public participants (Stakeholders) and the EAP team members who could not be present for today’s meeting as tabulated below:

APOLOGIES				
No.	Title	Name(s)	Initials	Designation
1.	Dr	Andrea Klingelhoefter	AK	Atlantic Consulting Services
2.	Ms	Njaleka Susan	NS	!Naminus Councilor
3.	Hon	Mayores Hartzenberg	MH	Lüderitz Town Council
4.	Dr	Lima Martens	LM	LM Environmental Consulting

5. REGISTERED AND INTERESTED PARTIES

Fifteen individuals had registered as interested parties.

6. INTRODUCTIONS

a. The Public

Public participation is important in the EIA process as it allows for active interaction between (I&AP’s) and the client. The aim of this participatory opportunity is for the I&AP’s to voice their opinions, suggestions and/or comments on the proposed project. All registered I&AP’s will receive further information as the EIA process continues. Stakeholder consultations were held in mid-January 2021 after a clear directive had been received from the EC office of MEFT (1st at Walvis bay & 2nd at Swakopmund) and the 3rd Public consultation is taking place here today in Lüderitz.

b. The EAP

The Proponent appointed Atlantic Consulting Services t/a Dr Ekkehard Klingelhoefter, as the Environmental Assessment Practitioner (EAP).

c. The Proponent

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The proponent Lilongeni Aqua Fish-Farming (Proprietart) Ltd., which is a Namibian registered Company (Co. Reg. No. 2015/0190). Lilongeni Aqua Fish-Farming Ltd is a joint venture company established by four individuals (Two (2) Namibians and Two (2) foreign nationals).

7. EAP Dr Ekkehard Klingelhoefter PRESENTATION

7.1 Feasibility study has been done by the proponents and the study identified four feasible sites for the proposed mariculture finfish farming.

7.2 The EIA process (What does it say?)

- An Environmental Clearance Certificate (ECC) should be obtained from the Ministry of Environment, Forestry and Tourism (MEFT).
- The three stages of the EIA process are as follows:
- Stage 1: Screening process – The screening process was carried out and the documents have been submitted to the Environmental Commissioner in the Ministry of Environment, Forestry and Tourism (MEFT).
- Stage 2: Scoping process – The EIA public participation meetings were held in Walvis Bay and Swakopmund on the 13th and 14th of January 2021 respectively and on this day (23rd January 2021) another EIA public participation meeting was held in Lüderitz.

7.3 The presenter put emphasis on the “Blue Economy” which focuses on renewable energy, seafood and marine production, and offshore engineering.

- Africa: At the Blue Economy Conference which took place in Nairobi, Kenya, the global community deliberated on how to achieve the **sustainable use and conservation of aquatic resources for improved human wellbeing**, social equity and healthy ecosystems.
- Namibia: NDP 5 serves as a blueprint on how Namibia can accelerate development. The Blue Economy is one of the interventions for an inclusive economy, which will reduce poverty and inequality to achieve Vision 2030 objectives.
- Namibia to implement the Blue Economy governance and management system in January 2022.
- As stated by the Khomas Governor “The concept of the blue economy is an approach aimed at significantly increasing and harnessing the economic value of the ocean in an environmentally sustainable manner”.

7.4 The meeting deliberated on the Environmental Impact Assessment (EIA) for the proposed finfish cage farming operation west of Lüderitz by Lilongeni Fish farming (Pty) Ltd.

7.5 The purpose of this event is to inform interested and affected stakeholders about the proposal and its likely effects. To take into account information and views of the public in the EIA and decision-making. To provide adequate opportunities to stakeholders to raise their concerns and influence decision making at early stages of the project. For the proponents to obtain local and traditional knowledge that may be useful in decision making. For transparency and to avoid conflicts with stakeholders. Thus the EIA processes addresses all the relevant issues required by the proponent

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(Lilongeni Fish Farming Pty Ltd) to meet all the necessary requirements before they are issued an Environmental clearance Certificate.

7.6 The global finfish farming production has decreased due to the increase in world population.

7.7 In the SADC region;

- South Africa is the only country which is currently practising finfish Farming in cages of *Argyrosomus japonicus* (Dusky Kob) fish species and Shellfish (Oysters, Abalone & Scallops) as well as algae. In the Aquaculture sector they are currently farming with Tilapia species (*Oreochromis andersonii* & *Oreochromis niloticus*) and the African Catfish (*Clarias gariepinus*).
- In Namibia the focus is more on shellfish farming of oysters, abalones and algae and to date there is no finfish farming, Hence Lilongeni Fish farming (Pty) Ltd. decided to be the first company to venture into finfish farming.

7.8 There is high potential for finfish farming in Southern Africa of Yellowtail Kingfish as it is a fish of high value, the target market for this species is the Asian Market, while as for the Silver Kob which is a fish of good value will be exported to Germany.

7.9 The two previously proposed sites are situated in Walvis Bay which are referred to as Site A and Site B.

7.10 The pros and cons for Site A are as follows:

Pros

- Ideal site as it is close to the Walvis Bay harbour
- Presence of good infrastructure for fish processing purposes
- International airport present for exporting the processed fish products.
- Availability of skilled labour.
- Ideal site for anchoring the cages as it is less than 100 m sea depth.

Cons

- Presence of the sulphur eruption
- Proposed site for phosphate mining
- Red tides which lead to fish kills
- No mitigation: the risk of losing capital is very high
- Area is in the vicinity of the spawning ground for other fish species

7.11 The pros and cons of site B are as follows

Pros

- The proximity is ideal for cage farming

Cons

- Availability of sporadic anoxia
- Presence of sulphur eruption
- Proposed site for phosphate mining
- Presence of red tides
- The area is in the vicinity of spawning grounds for the marine finfish species of the Atlantic Ocean
- Mitigation: the proponent has to go further offshore at 200 m sea depth which is not convenient for anchoring the cages as it is too deep. As you move further away from the shore line the anoxic levels become high due to the Benguela current.

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7.12 At the meetings held in Walvis Bay and Swakopmund it was further resolved that Site C lies under the Marine Protected Area (MPA) which in this case Mariculture is permitted in the MPA zone as per the Marine Resources Act (MRA) 27 of 2000.

- The EAP resolved that Lilongeni Fish Farming (Pty) Ltd. Should Move to Site C which is close to Lüderitz and is a more convenient area as the sea depth is conducive for anchoring the fish cages and there is no presence of sulphur eruption. Thus the EIA public participation meeting for today.

7.13 Type of Activity: Offshore the construction and operation of a finfish farm in cages and Onshore a warehouse, quarantine and hatchery facilities, and office block.

- The fish species to be farmed are: Yellowtail kingfish (*Seriola lalandi*), Dusky Kob (*Argyrosomus coronus*) and Salmon (*Salmo salar*)
- The site coordinates and footprint is 26°37'40' Latitude South and 15°01'53' Longitude East.
- Onshore footprint includes: fish processing facility, fish hatchery (broodstock and fingerling production), quarantine facility for imported fish eggs, office complex, warehouse (fish feed and spares etc.).

7.14 Site C(i) is conducive due to the following reasons:

- Minimal risks (conducive oceanic environment)
- Oxygen levels are > 3ml/L
- Sea depth is < 100 m (good for cage anchoring).
- Water temperature ranges from 12°C to 15 °C (ideal temperature for Salmon & Yellowtail farming).
- Good infrastructure at Lüderitz (harbour, airport, road network, fish processing factories etc).
- Need to consider the Regulation to the Namibian Island's Marine Protected Area of 2007 and December 2012 and to mitigate accordingly.

8. QUESTIONS AND RESPONSES

All comments, concerns and questions that were raised during the meeting have been duly noted as outlined below.

1. Comments, Questions or Concerns Raised By: ACHA Consultant: Mr Sackias Shimuandi	
Question	Response (EK)

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<ol style="list-style-type: none"> 1. How many km's into the sea is the proposed site? 2. Salmon Species prefer to breed in freshwater, if they escape into the freshwater bodies e.g. The Orange River what measures have been put in place for escapees'? 	<ol style="list-style-type: none"> 1. The proposed site is six (6) km from Dias Point. 2. The cages have an inner net which is protected by a strong wire mesh which has a durability life span of 14 years. Worst case scenario -- should escapees take place these fish will be taken by the strong current offshore in a north westerly direction 100's km north of the Orange river.
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2 Comments, Questions or Concerns Raised By: Lilongeni Fish Farming (Pty) Ltd:

Mr Ranga Haikali

Questions	Response
<ol style="list-style-type: none"> 1. If the EAP could give more information on the oil spills, fish escapees and inbreeding of the farmed species with other marine species. 2. The imported feed what is the source where the feed will be bought from and what are the potential impacts of the imported feed? 3. What methods will be used to feed the fish? 4. What kind of cages can be used to prevent the sharks from breaking the cages? 5. The offshore cages; will there be any monitoring done on the cages? 	<ol style="list-style-type: none"> 1. Oil spills is a serious issue which is experienced throughout the world, should any oil spills occur dispersants, booms and skimmer methods will be employed to clean up ocean oil spills. This point has been noted down and will be taken up further with the Ministry of works and transport. 2. The fish feed will be procured from Hermanus Aquatic Feeds Producer. Their Aquatic Feeds are tailor made for each individual fish species of your choice. All fish feed will be tested by MAWLR prior import. 3. Automated feeding machines will be used to feed the fishes in the cages. The automatic feeding machines work by providing food at different

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	<p>time intervals using a timer. The automatic feeding machine allows you to set up the feeding times according to your own specifications</p> <p>4. Shark repellents will be used to prevent predation of the fishes in cages. Sensors will be deployed to detect the presence of any potential dangers approaching the cages which will set off an alarm to warn/inform the staff onshore. In addition the cages are protected on the outside by steel wire mesh which have a durability life span of 14 years.</p> <p>5. Monitoring of the cages will be done through the use of the latest technology which will be operated from a Service Vessel based at the farm. There will be what is known as a control room on board. Under water cameras will be attached to the cages so that the staff on the Service Vessel can monitor current environment of the cages through a computer.</p>
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3. Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine Resources: Ms Diina Mwaale

Question	Response
1. What type of feed will be used and what is the source of the feed?	<p>1. The type of feed to be used will be tailor made for the three proposed species (Yellowtail, Silver Kob & Atlantic Salmon). The feed will be procured from Hermanus, RSA.</p> <p>2. The proponents are currently in contact with the Ministry of Agriculture, Water & Land Reform</p>

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	to register Hermanus Aquatic Feeds as a fish feed exporter into Namibia.
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4 Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine Resources: Dr Jessica Kemper	
Concerns	Response
<ol style="list-style-type: none"> 1. The proposed Site C is six (6) km from Dias Point -this is a high risk area for bird populations (foraging grounds for the penguins) and lies in the migratory path for the dolphins and whales; seal colonies are also found on the nearby islands 2. Jessica's main concern is that the cage culture farm is too close to Halifax and. Putting up a finfish farm will attract the birds to the fish cages as this is close to the birds feeding grounds and this becomes a danger zone to the birds as they might get entangled into the cage nets. 	<ol style="list-style-type: none"> 1. Dr Kemper's concerns have been noted down and they will be addressed 2. The cages to be deployed will be equipped with deterrent sensors; in addition the cages at most times will be submerged and protected by a durable wire mesh.

5 Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine Resources: Dr Kollet Grobler	
Concerns & Comment	Response
<p>Points raised include:</p> <ol style="list-style-type: none"> 1. Halifax Island has high numbers of penguins. 2. Not in support of the proponents wanting to bring in Atlantic Salmon as one of the proposed species. 3. The vaccines and the growth hormones that are used all end up into the marine environment. 	<ol style="list-style-type: none"> 1. Dr Grobler's concerns have been noted down and will be taken into considerations 2. The comment on mitigations have been duly noted and the EAP will write them down clearly in the final report.

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<ol style="list-style-type: none"> 4. Fish pathogens and diseases cannot be contained in a fish tank/cages. 5. The proposed area is very rich in jellyfish and they end up causing harm to the Atlantic Salmon species. 6. Six (6) km east of the proposed site is a major feeding and breeding area for the bird colonies e.g. penguins. 7. The EAP in his presentation has outline the mitigations but has not stated how these mitigations will be resolved. 8. Site C proposed – lies in the midst of their long term oceanographic monitoring line. 	
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6 Comments, Questions or Concerns Raised By: Namport: Mr Wilfred Henock

Questions	Response (EK)
<ol style="list-style-type: none"> 1. How many cages will be installed and what are their diameters? 2. At what sea depth will the cages be anchored? 3. How long does the fish stay offshore before it is processed into the final product? 4. Will the processing be done offshore or onshore? 5. Approximately how long will maintenance of the fish cages take place and during the maintenance stage will the cages be emptied? 6. Which are the proposed species? 7. What type of marine species are currently travelling along the proposed site? 	<ol style="list-style-type: none"> 1. Different cage shapes and sizes are available worldwide. The number of cages and their sizes in diameters will be known at the initial stage of the design. The cluster cage system is recommended which will have least impact in the sense that only 3 will be deployed (one per species); holding capacity per cluster cage is 12 000 tonnes. 2. The preferred sea depth of anchoring the cages is < 100 m deep. 3. Max 2 years. 4. Immediately once the fish has been harvested from the cages it will be placed in fish crates containing ice to prevent spoilage while they are being transported to shore for further processing. 5. Cages will be checked on a daily basis. Once harvesting has been

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	<p>done a full inspection and cleaning will be conducted per cage unit.</p> <p>6. The three proposed species are: a) Silver Kob) Yellowtail Kingfish and c) Atlantic Salmon</p> <p>7. Seals, sharks and dolphins and whales at times.</p>
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7 Comments, Questions or Concerns Raised By: Lilongeni Fish-Farming (Pty) Ltd: Mr Ranga Haikali

Comments	Response
<p>1. Mr Haikali explained to the audience the meaning of the name Lilongeni. Lilongeni is an Oshiwambo word which means “Let us learn/ teach each other” meaning that the proponents are here to learn from the experts in the various fields.</p> <p>2. More importantly the Proponents are here to learn about environmental sustainability and to contribute to the Namibian economy through the use of the marine resources (fish).</p> <p>3. Mr Haikali informed the audience that they should feel free in expressing themselves through asking questions, comments or raising their concerns with regards to the proposed finfish mariculture project.</p> <p>4. The participant’s questions or comments be it negative or positive the Proponents will take all both criticisms positively as they do not want to end up in a situation where they have to fight the public.</p>	<p>Mr Haikali also responded to some of the questions regarding the fish processing factories:</p> <p>1. There are current idle infrastructures which are not being used, the proponents will upgrade the already existing infrastructures to suit their needs.</p> <p>2. The harvested fish will be processed at existing fish factories (Lüderitz) which are currently running at low capacity</p>

8 Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine Resources: Ms Diina Mwaale

Comment	Response by EK & RH

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<p>1. Some of the chemicals that will be used are dangerous to shellfish that are dwelling at the bottom of the ocean.</p>	<p>5. The proponents want to farm organically, the fish feed is the only thing that will go into the ocean. 6. There are procedures that will be taken into consideration with regards to the feed that will be used. 7. The proponents will only use fish feed which has been approved by the Namibia Standard Institute (NSi) that they do not cause harm to other aquatic organisms. Thus no harm will be brought upon the shellfish or any other organisms that live at the bottom of the ocean. 8. Faeces accumulation in the ocean will be broken down into small nano-particles, therefore they will not have any effects on the shellfish species either. 9. RH: Namibia is known to produce natural organic products. The fish will be naturally grown, through the health food programme no growth hormones will be allowed into Namibia.</p>
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9 Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine Resources: Dr Kollet Grobler

Comment & Question	Response: RH & AN
<p>1. The Ministry of Agriculture, Water and Land Reform (MAWLR) will analyse the fish feed for the presence of any growth hormones. 2. Why are the Proponents not considering site D? 3. How will you control the issue of vaccinating the fish?</p>	<p>1. Yes that this correct; no fish feed will be permitted into Namibia that has not been certified and approved by MAWLR. 2. The Proponents did not choose site D as there are still some ongoing Diamond mining activities in the proposed area; still too many pending restrictions; in addition Oranjemund has no harbour facilities 3. AN: Vaccination of the fish is done at the quarantine facility</p>

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	(onshore) thus it will not have any effect on other Marine species.
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Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine
Resources: Ms Saima Kapia

Question	Response EK
<ol style="list-style-type: none"> 1. What is the target market? 2. Will the fish be exported as a whole product? 3. Do you have any knowledge on the possible parasites that may occur in the proposed fish species? 	<ol style="list-style-type: none"> 1. The target markets for Yellowtail Kingfish is the Asian Market, for Silver Kob is Germany / USA and Atlantic Salmon is both the local and international market. 2. The fish will be gutted and exported whole and round initially but value addition to the product is being envisaged. 3. There are Acts & Regulations put in place for importing fish into Namibia. When importing fingerlings or smolt the exporting country needs to certify that they are pathogen free. Once the fingerlings arrive at the point of entry into Namibia, State Vets will re analyse the fish; the smolt / fry will then need to be placed in a quarantine facility for at least a month and then retested again.

Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine
Resources: Ms Diina Mwaale

Question	Response (EK)
<ol style="list-style-type: none"> 1. What will happen when the fingerlings contract diseases while they are put in cages? 	<ol style="list-style-type: none"> 1. Fingerlings when entering Namibia will be kept onshore in the quarantine facility and prior to deploying them to the offshore cages will be tested once more by the State Vets. Potential

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Comments, Questions or Concerns Raised By: Ministry of Fisheries and Marine Resources: Mr Abner Amadhila	
Comment & Concern	Response (EK)
<ol style="list-style-type: none"> Lilongeni has put more emphasis on the mitigations but has not indicated how these mitigation factors will be addressed. Concern is that with the establishment of the mariculture farm this might end up disturbing the whole food web, there will be an in-balance in the food web of the aquatic ecosystems. 	<ol style="list-style-type: none"> Comment noted and all impacts raised will be addressed accordingly. The fish cage culture will have no impact on the food web as the fish will be confined and fed.

Comments, Questions or Concerns Raised By: Lüderitz Town Council: Ms Brigitta Fredericks	
Comment	Response
<ol style="list-style-type: none"> Thanked the Proponents for choosing Lüderitz. In support of the proposed finfish Mariculture Farm as this will bring in needed job opportunities to Lüderitz. 	Comments Noted

Comments, Questions or Concerns Raised By: OndjambiAquaculture: Ms Aina Petrus	
Comment	Response
<ol style="list-style-type: none"> Lüderitz community should appreciate the Proponents for travelling all the way to Lüderitz and for wanting to set up their Mariculture farm here. At most time investors complain that Lüderitz is too far from other towns. Her company is in-support of the proposed Mariculture farm. 	Comments noted.

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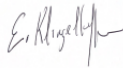
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Comments, Questions or Concerns Raised By: Namport: Mr Abner Amadhila	
Comment	Response
<ol style="list-style-type: none">1. Once the farm is up and running, Lilongeni Fish Farming (Pty) Ltd. to sell some of their fish products locally.2. Why have the proponents moved away from site B?	<ol style="list-style-type: none">1. Ninety-five (95%) percent of the fish products will be for the export market, and 5% of the products will be sold locally. The Proponents do not want to swamp the local market or compete with the companies that supply the local market currently.2. Site B is not conducive for cage anchoring and due to the presence of sulphur eruptions it is not worth risking it with a project of such magnitude.

The chairperson thanked all participants for their openness, opinions, recommendations and constructive discussions.

9. CLOSURE: MEETING ADJOURNED AT: 11:30 HR

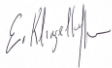

CONFIRMATION AND SIGN OFF:

Minutes Approved for Circulation: The minutes have been approved for circulation by the undersigned			Minutes Confirmed as True record of the Meeting held on the 23 rd of February 2021 at Lüderitz Nest Hotel.		
<i>Chairperson</i>	<i>Designation</i>	<i>Signature</i>	<i>EAP</i>	<i>Designation</i>	<i>Signature</i>
Ms Aune Nantinda	Hangana Abalone		Dr Ekkehard Klingelhoefter	Atlantic Consulting Services	
Minute Taker			Other Member Present/ Witness		

Atlantic Consulting Services (Aquatic and Terrestrial CC/2021/0384
Dr Ekkehard Klingelhoefter

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Minutes Approved for Circulation			Minutes Confirmed as True record of the Public Meeting held on the 21 st February 2021 at The Nest Hotel, Lüderitz		
Name	Designation	Signature	Chairperson	Designation	Signature
Dr Ekkehard Klingelhofer	Team Leader EAP of: Atlantic Consulting Services CC 2021/03824		Ms Aune Nantinda	Director of Hangana Abalone Mariculture	
Minute Taker			Other Member Present/ Witness		
Member's Name	Designation	Signature	Member's Name:	Designation	Signature
Nadmononghenda Kauluma	Atlantic Consulting Services -Minute Taker Team of Experts		Ms Maria Shimhanda	Team of Experts	
Member's Name	Designation	Signature	Member's Name:	Designation	Signature
Ms Ndamononghenda Kauluma	Atlantic Consulting Services				