

RECEIVED BY: Sharon
NAMCOR OFFICE OF THE MD
DATE: 26/02/2020



Risk – Based Solutions (RBS) CC

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WINDHOEK, NAMIBIA

Tel: +264 - 61- 306058; FaxMail: +264-886561821
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Global Office / URL: www.rbs.com.na

The Environmental Commissioner
Ministry of Environment and Tourism
Private Bag 13306
WINDHOEK, NAMIBIA

25th February 2020

Through the Competent Authority

Mrs. Maggy Shino
Petroleum Commissioner
Ministry of Mines and Energy
1 Aviation Road, Private Bag 13297
WINDHOEK, NAMIBIA



Dear Sir / Madam,

RE: Electromagnetic Geoservices (EMGS) ASA: Application for Environmental Clearance Certificate (ECC), MET ECC Application No. APP-001136, for the Proposed Multiclient 2D and 3D Controlled Source Electromagnetic (CSEM) covering the Walvis Basin, Central Offshore Namibia

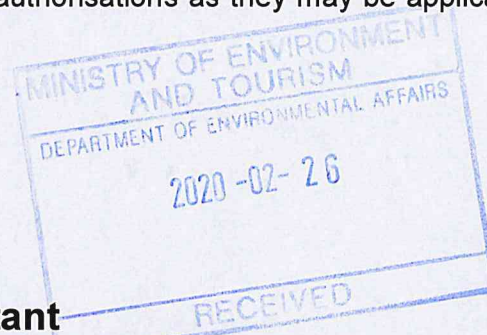
Please find attached to this covering letter the application for Environmental Clearance Certificate (ECC), Background Information Document (BID) and the Draft Scoping Report for Electromagnetic Geoservices (EMGS) ASA with respect to the proposed multiclient 2D and 3D Controlled Source Electromagnetic (CSEM) covering the Walvis Basin, Central Offshore Namibia. The MET ECC Application No. **APP-001136**.

Your support with respect to the ECC Application REF No. **APP-001136** will be highly appreciated because the available window to conduct the proposed 2D and 3D CSEM survey from the perspectives of the weather and environmental constraints is very limited and the mobilisation and contractual arrangements are also subject to the proponent having all applicable permits, consents and authorisations as they may be applicable and is inclusive of the ECC.

Yours Sincerely,



Dr. Sindila Mwiya
EAP / Technical Consultant
Risk-Based Solutions (RBS) CC



Risk-Based Solutions (RBS), the Consulting Arm of Foresight Group Namibia (PTY) LTD.

We are committed to providing services of excellence in Petroleum, Mining, Tourism, Properties Development, Applied Environment, Waste Management, Geoenvironmental Engineering, Technical Support and Specialised Training and Industry Research

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Consulting Arm of Foresight Group Namibia (FGN) (PTY) LTD

Mr. Immanuel Mulunga
Managing Director
National Petroleum Corporation of Namibia (Pty) Ltd
Petroleum House
1 Aviation Road
Private Bag 13196
WINDHOEK, NAMIBIA



25th February 2020

ATTENTION: Ms. Victoria Sibeya

RE: Electromagnetic Geoservices (EMGS) ASA: Application for Environmental Clearance Certificate (ECC), MET ECC Application No. APP-001136, for the Proposed Multiclient 2D and 3D Controlled Source Electromagnetic (CSEM) covering the Walvis Basin, Central Offshore Namibia

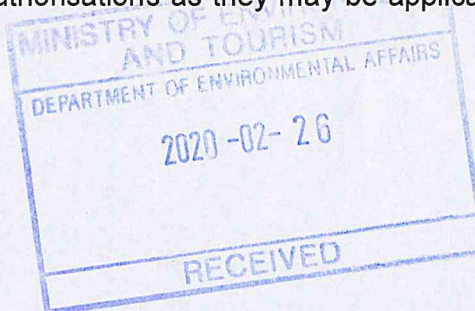
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Risk-Based Solutions (RBS) CC



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FORMS



Form 1

REPUBLIC OF NAMIBIA
ENVIRONMENTAL MANAGEMENT ACT, 2007

(Section 32)

APPLICATION FOR ENVIRONMENTAL CLEARANCE CERTIFICATE

MET ECC Application No. APP-001136



PART A: DETAILS OF APPLICANT

1. Name (person or business) – **Electromagnetic Geoservices (EMGS) ASA**

2. Business Registration/Identity No. **984 195 486**
(if applicable)

3. Correspondence address: **P . O Box 1878 Lade, 7440 Trondheim, Norway**

4. Name of Contact Person: **Dr. Sindila Mwiya**

5. Position of Contact Person: **Environmental Assessment Practitioner (EAP)**

6. Telephone No.: **(061) 306058 / 0811413229**

7. FaxMail No.: **+264-886561821**

8. E-mail Address: (if any): **smwiya@rbs.com.na or frontdesk@rbs.com.na**

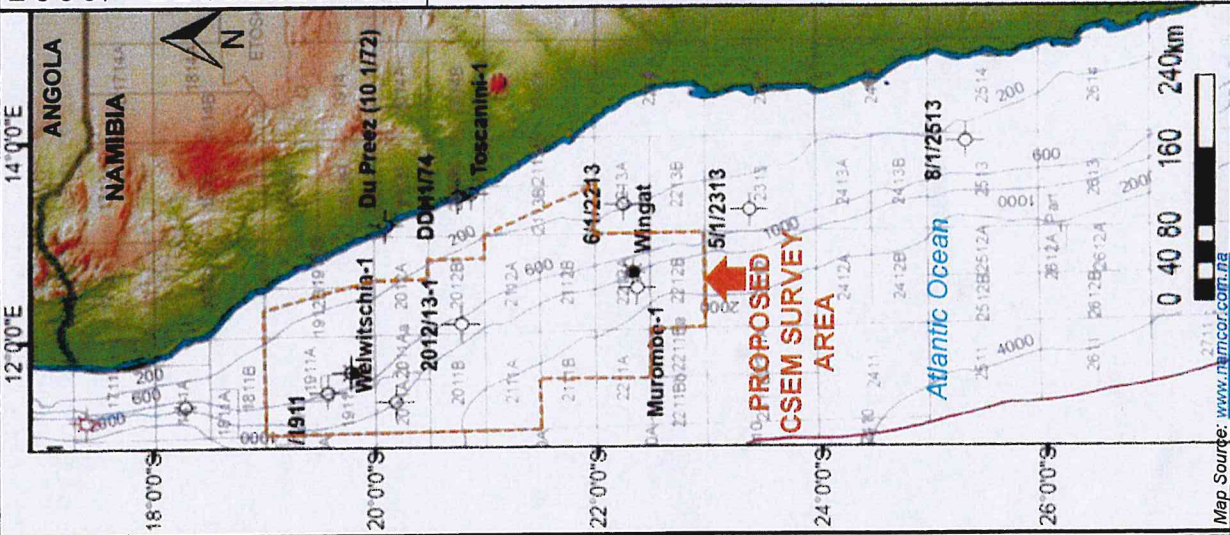
Tick () the appropriate box





PUBLIC NOTICE FOR APPLICATION FOR ENVIRONMENTAL CLEARANCE CERTIFICATE (ECC)

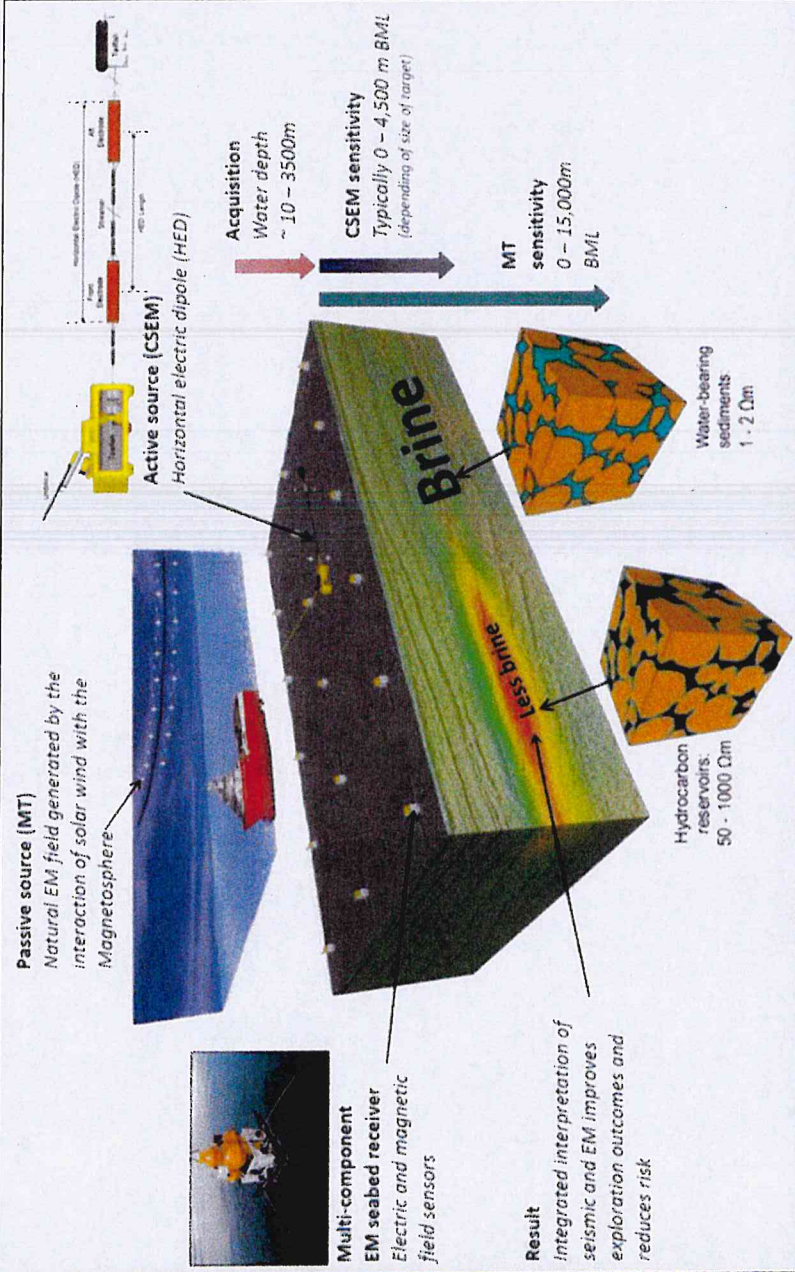
Electromagnetic Geoservices ASA (EMGS), (the Proponent) - Application for Environmental Clearance Certificate (ECC) for the Proposed Multifacilitant 2D and 3D Controlled Source Electromagnetic (CSEM) Survey, Walvis Basin, Offshore Namibia



Map Source: www.namcor.com.na

Electromagnetic Geoservices ASA ("EMGS") (the "Proponent") is proposing to conduct a multifacilitant 2D and 3D marine Controlled Source Electromagnetic (CSEM) survey operations covering the Walvis Basin, offshore central Namibia. EMGS is a global company founded in 2002 with its headquarters in Trondheim, Norway and representative offices for Europe, Africa and Middle East (www.emgs.com). The company is listed on the Oslo stock exchange and is a pioneer on the application of Electromagnetic (EM) for offshore hydrocarbon exploration. The water depth of the proposed survey area ranges from ca-200 to -3000m with the bulk of the survey area falling within the deeper waters. The proposed survey is scheduled to start in May 2020 and last for 70 days. The survey will be undertaken using the vessel MV Atlantic Guardian.

EMGS has performed more than 950 surveys in frontier (exploration high risk areas such as Namibia) and mature basins across the world, from the Arctic, Canada, Brazil, Norway, USA to Australia and Angola, in water depths ranging from around 30 to 3600 m. Using CSEM, hydrocarbon-bearing formations can be distinguished from the surrounding formation because they are highly resistive (poor conductors of electric current). Note that CSEM Survey is NOT the same as seismic survey. The basic principle of the proposed CSEM survey method is the application of electric and magnetic (electromagnetic) fields in the mapping or imaging of electric resistivity distribution of the subsurface in the marine environment for the petroleum exploration. During the CSEM survey operations, EM field receivers are deployed on the seafloor spaced between 1 - 2 km apart over an Area of Interest (AOI) and weighed down by environmentally benign anchors made from standard or degradable concrete / compacted sand that easily breaks down naturally. The CSEM survey uses a 50 to 300 m long horizontal dipole (single pole) source that is towed 20-30m above the seabed recorders and transmit a time-varying electromagnetic field into the earth. The field being emitted by the source is modified by the presence of subsurface resistive layers and these changes are detected and logged by an array of receivers placed on the seabed. The transmission currents are typically binary waveforms with 0.1- to 0.25-Hz (very low frequency and large wavelength). The processed data can determine the resistivity of the underlying rock. Hydrocarbon-bearing rock shows greater resistivity relative to water-bearing rock and thus areas that appear highly resistive may indicate the presence of hydrocarbons. The duration of the proposed CSEM Survey operations will be around seventy (70) days and will involve ten (10) days for deployment of receivers, forty (40) days for transmission (source towing) and twenty (20) days for recovering the receivers from the seabed.



The proposed multifacilitant 2D and 3D CSEM survey activities cannot be undertaken without an Environmental Clearance Certificate (ECC) as required by the Environmental Management Act, 2007, (Act No. 7 of 2007) and the Environmental Impact Assessment (EIA) Regulations 30 of 2012. In fulfillment of the environmental requirements, EMGS has appointed Risk-Based Solutions (RBS) CC as the Environmental Consultant, led by Dr Sindila Mwiya as the Environmental Assessment Practitioner (EAP) to prepare EIA and EMP Reports in order to support the application for ECC. All interested and Affected Parties (I&APs) are hereby invited to register and submit written comments / objections / inputs with respect to the proposed CSEM survey operations covering the Walvis Basin, offshore Namibia.

REGISTER BY EMAIL: frontdesk@rbs.com.na - DEADLINE FOR SUBMITTING WRITTEN SUBMISSIONS IS: **FRIDAY 13th MARCH 2020**

For more information Contact Dr Sindila Mwiya (PhD, PG Cert, MPHil, BEng (Hons), Pr Eng)- EAP / International Resources Technical Specialist Consultant (IRTSC), Email: smwya@rbs.com.na or Mobile: +264-811413229



Your Resources (Oil, Gas, Minerals & Energy Exploration, Production & Mining) and Environmental Assessments (SEA, EIA, EMP, EMS) International Specialist Consultants

Electromagnetic Geoservices ASA

MINISTRY OF ENVIRONMENT
AND TOURISM
DEPARTMENT OF ENVIRONMENTAL AFFAIRS
2020-02-26
RECEIVED

Summary Background Information Document (BID) for Environmental Assessment
Public and Stakeholder Consultation Process to Support the Application for
Environmental Clearance Certificate (ECC) for the Proposed Multiclient 2D and 3D
Controlled Source Electromagnetic (CSEM) covering the Walvis Basin,
CENTRAL OFFSHORE NAMIBIA

Electromagnetic Geoservices ASA
PB 1878 Lade
N-7440 Trondheim
NORWAY

FEBRUARY 2020



Electromagnetic Geoservices ASA



Draft Environmental Scoping Report to Support the
Application for Environmental Clearance Certificate
(ECC) for the Proposed Multiclient 2D and 3D
Controlled Source Electromagnetic (CSEM)
covering the Walvis Basin,
CENTRAL OFFSHORE NAMIBIA

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