

Form 2

REPUBLIC OF NAMIBIA
ENVIRONMENTAL MANAGEMENT ACT, 2007

(Section 39)

APPLICATION FOR AMENDMENT OF CONDITIONS OF ENVIRONMENT
CLEARANCE CERTIFICATE

ECC Application Reference No:
APP No. 002495



A. PARTICULARS OF APPLICANT

Name of Applicant: PGS Exploration (UK) Limited

The Proponent intends to apply for the amendment of the current ECC No. 2300114 granted by the Environmental Commissioner in Ministry of Environment, Forestry and Tourism (MEFT) on the 3rd February 2023 and expiring on the 3rd February 2026. The proposed amendment to the ECC No. 2300114 involves the increase of the Area of Interest (AOI) to cover Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, Walvis, Orange, and Lüderitz Basins Offshore Namibia.

The following is the Proposed New ECC Title:

Proposed Multiclient/Proprietary 2D /3D Seismic Survey covering Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, Walvis, Orange, And Lüderitz Basins Offshore Namibia

Address: PGS Exploration (UK) Limited, The Heights, Brooklands, Weybridge, Surrey, KT13 0NY, UK

Telephone Number: (061) 306058

Mobile Phone Number: +264-811413229

Fax Number: +264-61-245001

E-mail Address: smwiya@rbs.com.na

Name of Contact Person: Dr Sindila Mwiya (EAP)

Telephone Number: (061) 306058

Cell phone Number: +264-811413229

Fax Number: +264-886561821

E-mail Address: smwiya@rbs.com.na



ECC – 2300114

Serial: 23JulTF114



**REPUBLIC OF NAMIBIA
MINISTRY OF ENVIRONMENT, FORESTRY AND TOURISM**

OFFICE OF THE ENVIRONMENTAL COMMISSIONER

ENVIRONMENTAL CLEARANCE CERTIFICATE

ISSUED

In accordance with Section 37(2) of the Environmental
Management Act (Act No. 7 of 2007)

TO

PGS Exploration (UK) Limited
4 The Heights, Brooklands Weybridge Surrey, KT13 0NY UNITED KINGDOM

TO UNDERTAKE THE FOLLOWING LISTED ACTIVITY

Proposed 3D Seismic Survey covering Blocks 2713, 2712A, 2712B, 2812B,
and 2812A and Portions of Blocks 2813B, 2813A, 2814B, 2714B, 2714A,
2614 2613, 2612A and 2612B, Orange and Lüderitz Basins,
Offshore Southern Namibia

Issued on the date: 2023-02-03

Expires on this date: 2026-02-03


ENVIRONMENTAL COMMISSIONER

(See conditions printed over leaf)

This certificate is printed without erasures or alterations



Figure 1: Copy of the ECC No. 2300114 granted on the 3rd February 2023 and will expire on the 3rd February 2026. The ECC No. 2300114 need to be amended to provide for an increase of the Area of Interest (AOI) to cover Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, Walvis, Orange, and Lüderitz Basins Offshore Namibia.

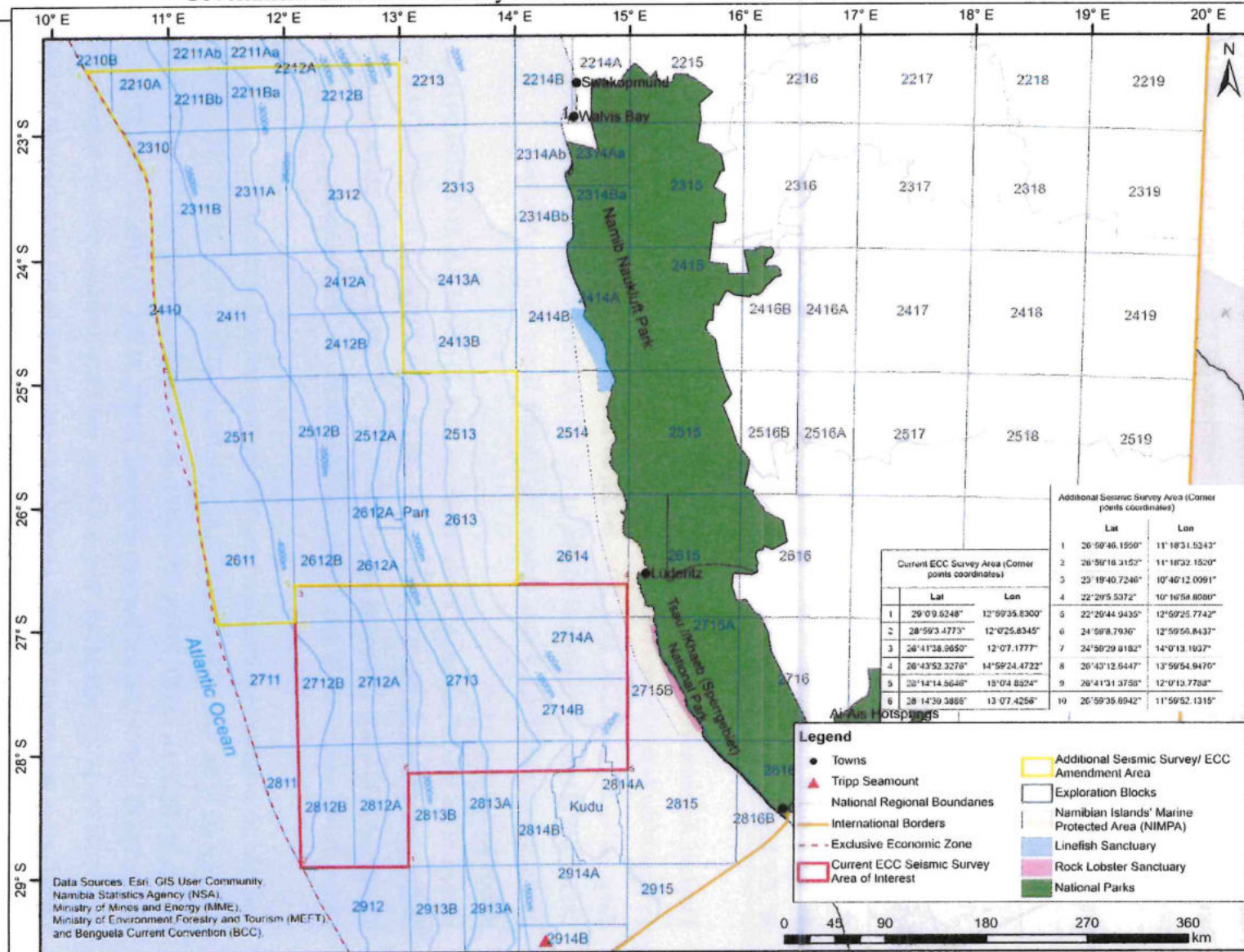


Figure 2: Location of the new AOI covering Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, Walvis, Orange, and Lüderitz Basins Offshore Namibia.

B. PARTICULARS OF CURRENT ENVIRONMENTAL CLEARANCE CERTIFICATE

1. Name of current holder Environmental clearance certificate: PGS Exploration (UK) Limited
2. Date of issue of current Environmental Clearance Certificate (ECC): Current ECC No. 2300114 was granted 3rd February 2023 and will expire on the 3rd February 2026.

PART C PROPOSED AMENDMENTS TO THE CONDITIONS IN CURRENT

1. Condition(s) in the Current Environmental Clearance certificate:
The Conditions in the Current Environmental Clearance Certificate are detailed in the Notification of the Decisions (See Attached copy of the ECC) covering the following:
 - ❖ C1: Condition of Approval covering C1 (1) to C1 (3).
 - ❖ C2: ECC validity covering C2 (1) to C2 (4).
 - ❖ C3: Complacence with authorisations under other laws covering C3 (5), and.
 - ❖ C4: Implementation and Monitoring covering C4 (6) to C4 (18)
2. Proposed Amendment(s):
Increase of the Area of Interest (AOI) to cover Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, Walvis, Orange, and Lüderitz Basins Offshore Namibia.
3. Reason for Amendment(s):
Increase of the Area of Interest (AOI) to cover Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, Walvis, Orange, and Lüderitz Basins Offshore Namibia.
4. Describe the environmental changes arising from the proposed amendment(s):
The increase of the Area of Interest (AOI) to cover Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, Walvis, Orange, and Lüderitz Basins Offshore Namibia will not result in major environment influence. Detailed impact assessment results are provided in the Updated EIA with mitigation measures provided in the EMP Reports.

5. Describe how the environment and the community might be affected by the proposed amendment(s):
The proposed amendment will not significantly affect the environment and the community as detailed and demonstrated in the Updated EIA and EMP Reports attached to this application.
6. Describe how and to what extent the environmental performance requirements set out in the EIA report previously approved or activity profile previously submitted for this activity may be affected:
All the valid and applicable environmental performance requirements set out in the previous EIA and EMP reports have been incorporated in the current updated EIA and EMP Reports. A number of positive and negative impacts have been identified as detailed in the updated EIA Report and mitigation measures and management strategies have been proposed and are detailed in the updated EMP Report.
7. Describe any additional measures proposed to eliminate, reduce or control any adverse environmental impact arising from the proposed amendment(s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process:
All the mitigation measures to eliminate, reduce or control any adverse environmental impact arising from the proposed amendment (s) and to meet the requirements in the Technical Memorandum on Environmental Impact Assessment Process are contained in the attached updated EIA and EMP Reports. The following is the summary of the basis for the temporary, operational and other key avoidance mitigatory measure as presented in the updated EMP report with respect to the proposed Multiclient / Proprietary 2D/3D seismic survey activities over the Walvis, Orange, and Lüderitz Basins Offshore Namibia:
 1. Seasonality and timing.
 2. Establishment of buffer zones.
 3. Use of Marine Mammal Observer (MMO).
 4. Use of Fisheries Liaison Officers (FLOs).
 5. Use of Passive Acoustic Monitoring (PAM) Technology.
 6. Soft starts' and 'pre-firing' observations.
 7. Termination of firing in the 500m exclusion zone with respect to marine mammals.
 8. Marine Animal Monitoring and Mitigation Plan aboard the Survey Vessel.
 9. The use of Turtle friendly tail buoys.
 10. The use of support vessel and fisheries liaison officer.
 11. Pollution prevention and management.
 12. Spill prevention and management.
 13. Compliance to all MARPOL (marine pollution) regulations and waste disposal procedures, and.

14. Adoption of the precautionary principles in the absence of any specific mitigation measures being provide in this updated, the Proponent shall always adopt the precautionary approach.

Good communication and pre-notification practices will limit unnecessary disruption and delays to other marine users. Due consideration should be given to the presence of all fishing vessels while running survey lines and communication channels should be kept open to avoid close encounters. Additionally, support vessels moving to/from Lüderitz Bay may encounter commercial fishing vessels of other fishing sectors and potentially cause disruption, but on a very short-term. Adherence to prescribed maritime communication procedures will limit any likely encounters. In the interests of amicable co-use of the marine resources, and for marine safety, the following procedures should mitigate any negative interactions with the fishing vessels:

- (i) The surveyor must formally notify the Petroleum Commissioner (MME) of the survey, stating the proposed location of the survey lines, the commencement date and the anticipated duration.
- (ii) This information should also be relayed to all affected parties (Directorate of Maritime Affairs, Namibian Ports Authority, South African HydroSAN and the MFMR Monitoring, Control and Surveillance Unit - Walvis Bay).
- (iii) In the interest of good relations, direct communication and facilitation with any vessels in the area at the time of the survey is important. Openness to the possibilities of adjusting survey lines and trawling location to cause minimum disruption of operations to both parties.
- (iv) Good communications through MFMR to the fisheries (i.e., Association of Namibian Fishing Industries and the Namibian Large Pelagic and Hake Longlining Association) with pre-notification of survey activities and vessel paths (navigational co-ordinates of the survey area, timing and duration of proposed activities).
- (v) Notices to Mariners should be distributed timeously to fishing companies and directly to fishing vessels, stating the following: The co-ordinates of the proposed survey lines, timeframes and day-to-day location of the survey seismic vessel, safe operational limits of the survey vessel, and, movements of support vessels.
- (vi) Radio Navigation Warnings and Notices to Mariners should be distributed via Navigational Telex (Navtext) and Lüderitz radio for the duration of the survey.
- (vii) It is recommended that updates of the scheduled weekly survey plan be circulated to the operators of affected fishing vessels on a daily basis and notify trawlers when the survey may move into trawling areas.
- (viii) Establish communications with the known long-line fishers if drifting buoys (with radar responders) are sighted.
- (ix) Award compensation for damage to fishing gear and other proven direct impacts should it be shown the damage is as a direct result of negligence on the part of the contractor, and.
- (x) An experienced Fisheries Liaison Officer (FLO) should be deployed on board the survey vessel to initiate and facilitate radio communications with maritime vessels in the vicinity of the survey area. The FLO should report daily on vessel activity, ramp up procedures, environmental matters, fauna sightings, and respond and advise on action to be taken in the event of encountering fishing gear.

PART D DECLARATION BY APPLICANT

I hereby certify that the particulars given above are correct and true to the best of my knowledge and belief. I understand the environmental clearance certificate may be suspended, amended or cancelled if any information given above is false, misleading, wrong or incomplete.



Dr Sindila Mwiya

ENVIRONMENTAL
ASSESSMENT
PRACTITIONER (EAP)

Signature of Applicant

Full Name in Block Letters

Position

on behalf of PGS Exploration (UK) Limited

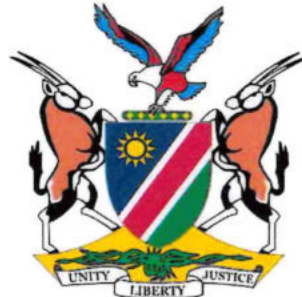
Date 24th November 2023

From: Ministry of Environment and Tourism <noreply@meft.gov.na>

Sent: 20 November 2023 19:30

To: Dr Sindila Mwiya <frontdesk@rbs.com.na>

Subject: Your application is verified



REPUBLIC OF NAMIBIA

Ministry of Environment, Forestry & Tourism



2023-11-20

Dear Dr Sindila Mwiya,

This email serves to inform you that your application **APP-002495** has been verified

Taking the following into considerations:

- Location of the project
- Sensitivity of the area
- Scale of operation of the project

Please upload the following documents:

- EIA
- EMP
- Consent letter or support doc from relevant Authority
- Proof of Consultation (Minutes, Newspaper adverts, etc)
- Confirmation of screening notice received (through email) in terms of assessment procedures (Section 35 (1)(a)(b) of the Environmental Management Act, No 7 of 2007)



- Preliminary Site Map with coordinates (decimal degrees) and a Legend
- CV of Environmental Assessment Practitioner (EAP)

Please login onto our portal to upload required documents, if any
<https://eia.met.gov.na>

NB- for the purpose of Section 38 of the Environmental Management Act, 2007 read with Regulation 4(d), kindly forward copies of all relevant documents i.e (application forms, EIA, Scoping reports, EMP etc) to the office of the Environmental Commissioner

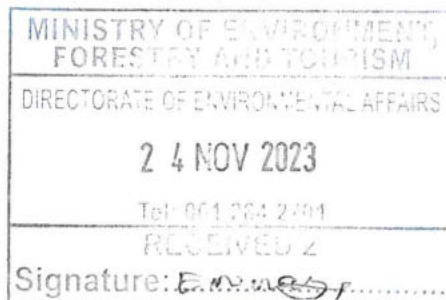
Thank you

Phillip Troskie Bulding

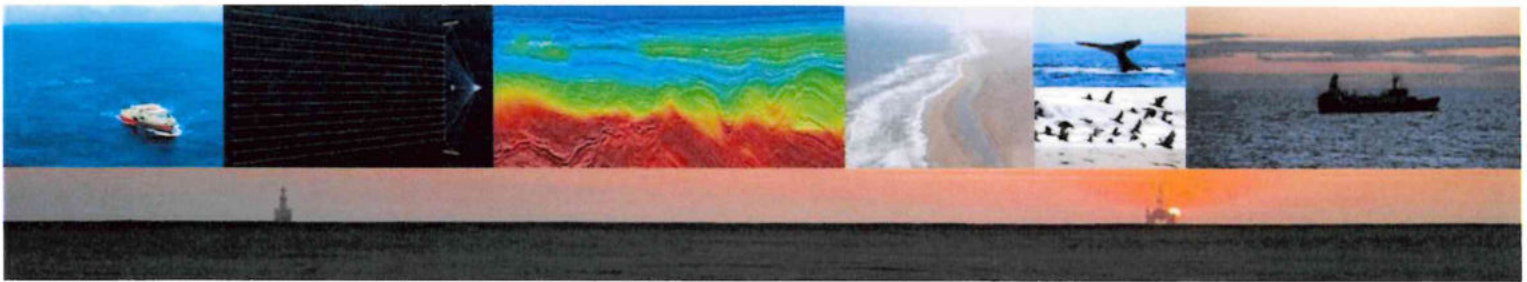
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Correspondences can be done on the portal or please use
eia@met.gov.na

PGS Exploration (UK) Limited



Final Updated Environmental Management Plan (EMP) Report to Support the Application for Amendment of the Environmental Clearance Certificate (ECC) No. 2300114 for the Proposed Multiclient/Proprietary 2D / 3D Seismic Survey covering Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, WALVIS, ORANGE, AND LÜDERITZ BASINS OFFSHORE NAMIBIA



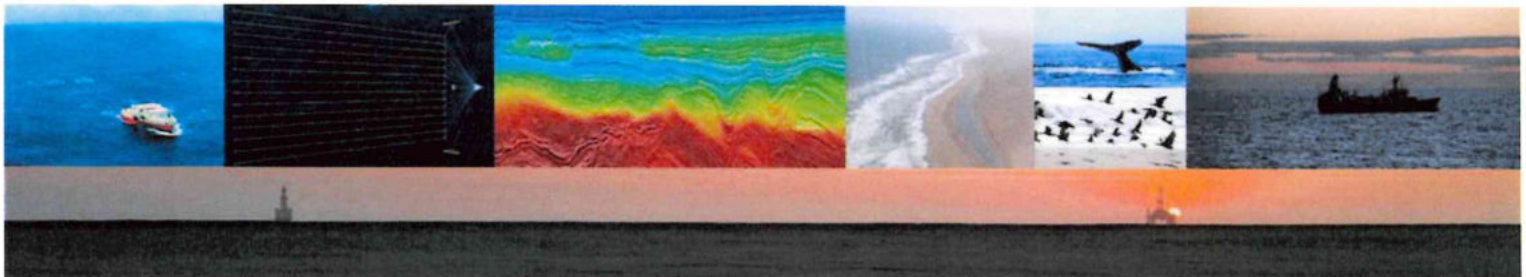
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PGS Exploration (UK) Limited
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UNITED KINGDOM

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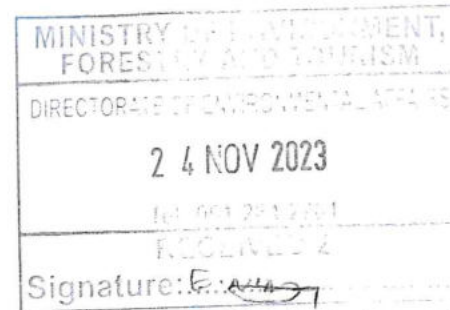
Final Updated Environmental Impact Assessment (EIA) Report to Support the Application for Amendment of the Environmental Clearance Certificate (ECC) No. 2300114 for the Proposed Multiclient/Proprietary 2D / 3D Seismic Survey covering Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, WALVIS, ORANGE, AND LÜDERITZ BASINS OFFSHORE NAMIBIA



November 2023

PGS Exploration (UK) Limited
4 The Heights, Brooklands, Weybridge
Surrey, KT13 0NY
UNITED KINGDOM

PGS Exploration (UK) Limited



Background Information Document (BID) / Scoping Report for Public and Stakeholder Consultation Process for Environmental Assessment to Support the Application for Amended Environmental Clearance Certificate (ECC) No. 2300114 for the Proposed Multiclient/Proprietary 2D / 3D Seismic Survey covering Blocks 2310, 2311B, 2311A, 2312, 2410, 2411, 2412A, 2412B, 2511, 2512B, 2512A, 2513, 2611, 2612B, 2612A, 2613, 2712B, 2712A, 2713, 2714A, 2714B, 2812B, and 2812A, and Portions of Blocks, 2210B, 2210A, 2211Bb, 2211Ba, 2212B, 2614, 2813B, 2813A, 2814B, and 2814A, **Walvis, Orange, and Lüderitz Basins Offshore Namibia**

November 2023

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