

Ministry of Mines and Energy
Mining Commissioner
2023 -06- 05
Form Received
Department of Mines

FORMS

REPUBLIC OF NAMIBIA

ENVIRONMENTAL MANAGEMENT ACT, 2007

(Section 32)

APPLICATION FOR ENVIRONMENTAL CLEARANCE CERTIFICATE

MEFT ECC REFERENCE
APPLICATION No. APP-001277



PART A: DETAILS OF APPLICANT

1. Name (person or business) – **Namibia Nuclear Corporation (Pty) Ltd (Proponent)**

Application for Renewal of Environmental Clearance Certificate (ECC) for Mining License (ML) No. 121, Swakopmund District, Erongo Region, West Central Namibia.

2. Business Registration/Identity No.
(if applicable)

3. Correspondence address: **P. O. Box 4418, Windhoek, 107 Olif Palme Street, Eros Park, Windhoek, Namibia**

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

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

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

7. Fax No.: **+264-61-245001**

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

Tick () the appropriate box

PART B: SCOPE OF THE ENVIRONMENTAL CLEARANCE CERTIFICATE

The environmental clearance certificate is for:

- Application for Renewal of Environmental Clearance Certificate (ECC) for Mining License (ML) No. 121, Swakopmund District, Erongo Region, West Central Namibia

Details of the activity(s) covered by the environmental clearance certificate.

The Proponent intends to continue with the ongoing dimension stone mining operations in the ML No. 121 covering the following lifecycle developmental stages:

1. Preconstruction.
2. Construction.
3. Operation, ongoing exploration activities, monitoring and rehabilitation, and.
4. Decommissioning, closure and aftercare.

The ML No. 121 is granted for base and rare metals, dimension stone, industrial minerals, nuclear fuels minerals and precious metals. Current operations in the ML area are focused on dimension stone with detailed exploration and feasibility evaluation for other commodity groups been undertaken. The new ECC shall provide for mining of dimension stones currently being undertaken and if there is a need for new modifications that may require regulatory approvals such as mining of new commodity as granted in the ML 121 other than dimension stones, an increase in the size or additional new land to the ML area, the Proponent will be required to apply for a new / amended ECC before such modifications may be implemented.

[**Note:** Please attach plans to show the location and scope of the designated activity(s), and use

additional sheets if necessary: Final Updated Environmental EIA, EMP and Monitoring Reports are attached to this application with more detailed information.

Title of Activity: Ongoing / Proposed Mining and Exploration activities in the Mining License (ML) No. 121, Swakopmund District, Erongo Region, West Central Namibia

Nature of Activity: Ongoing and Proposed Mining Exploration Operations of Dimension stones and

Location of Activity: Swakopmund District, Erongo Region, West Central Namibia (Fig. 1).

Scale and Scope of Activity:

Namibia Nuclear Corporation (Pty) Ltd (the Proponent) holds minerals rights under the Mining License (ML) No. 121. The 3534.5885 Ha ML No. 121 area was granted on 04/06/2017 and will expire on the 04/06/2027. The ML No. 121 was first granted to Stone Africa (Pty) and was later transferred to Namibia Nuclear Corporation (Pty) Ltd as the current Proponent. The 3534.5885 Ha ML No. 121 area was granted on 04/06/2017 and will expire on the 04/06/2027. The ML No. 121 is granted for base and rare metals, dimension stone, industrial minerals, nuclear fuels minerals and precious metals. The following is the summary of the key components of the proposed project:

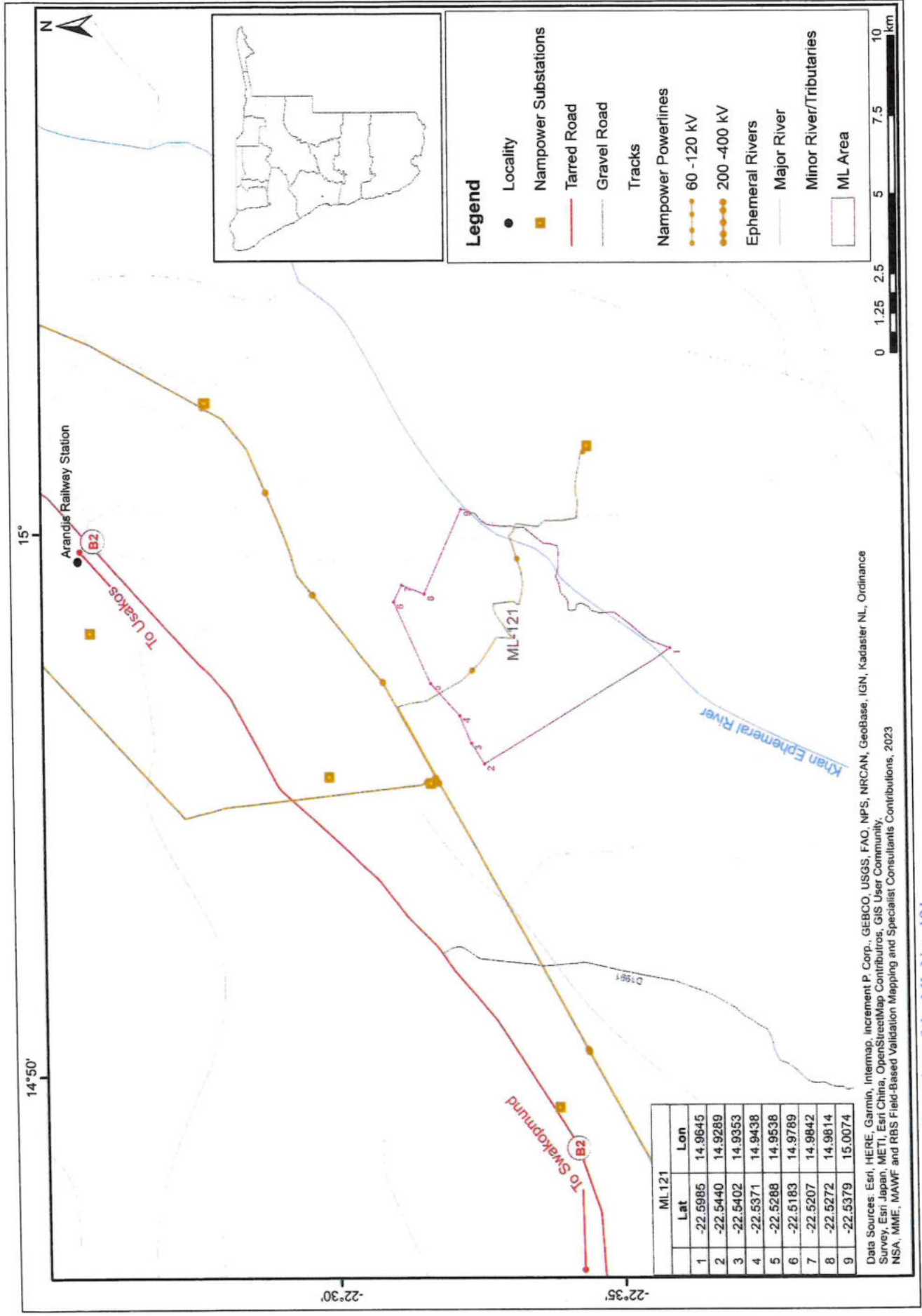
- ❖ **Commodity Group:** Dimension stone with special focus granites and other economic rock rocks. The Proponent, has applied to the Competent Authority (Ministry of Mines and Energy (MME)) to include base and rare metals, industrial minerals, precious metals, and semi-precious stone group of minerals on ML No. 121.
- ❖ **Size of Deposit:** Multiple quarries have been opened with mining only focused on one quarry based on the market needs and all supported by ongoing exploration activities.
- ❖ **Estimated duration of the operations:** An ML is valid for a maximum period of 25 years and renewable as provided for in the Minerals (Prospecting and Mining) Act, 1992, (Act No. 33 of 1992).
- ❖ **Socioeconomic benefits / Project Motivation:** The Proponent has invested extensively in the Namibian economy in last 20 years and in particular the Erongo Region. The project continues to create employment opportunities, value addition, in-situ potential underground minerals resources and high beneficiation opportunities in Namibia and additional socioeconomic benefits in terms of capital investments, license rental fees, royalties payable to Government, export earnings, foreign direct investments and various taxes payable to the Government.
- ❖ **Mining Technique:** Quarry, with a diamond wire saws and stone cutting machines used for cutting out small block 2 m x 1 m x 0,6 m (majority), and larger blocks 2,8 m x 1,3 x 0,8 m (minority) rectangular blocks.
- ❖ **Processing:** Further processing of the mined-out and sorted / graded granite blocks will take place at the processing plant. At the processing plant, a giant saw is used to cut up the granite into more manageable pieces.
- ❖ **Sources of water supply:** Greywater supplies from Arandis and groundwater from a local borehole drilled.
- ❖ **Sources of electricity supply:** National grid, diesel generator and solar.
- ❖ **Mining and operational equipment:** Multiple excavators, wheel-loaders, forklift loaders, diesel generator sets, four-cylinder mining machines, wire saw machines, giant saws, semi-automatic drilling machines, containers, trucks, 4 by 4 cars and air-compressors, and.
- ❖ **Waste Rock:** Waste rock is being stockpiled and used for other engineering applications such as coastal defences and mine final rehabilitation process. Fine grounded materials from the giant saw are being tested for potential use in soil enhancements for improved crops production applications in the agricultural industry. The effective capacity of the waste rock facility will vary but is likely to be in range of $120 \times 90 \text{ m}^3$, calculated with 0.85 as capacity utilisation coefficient of waste rock per quarry area opened and fully operated.

The scale of operations covers multiple dimension stone quarries being operated in ML 121 area with ongoing exploration of not only dimension stone but also base and rare metals, industrial minerals, nuclear fuels minerals and precious metals commodity groups as granted by MME. The scope of the dimension stone mining and exploration operations covers: preconstruction, construction, operation, ongoing exploration activities, monitoring and rehabilitation, and decommissioning, closure and aftercare as detailed in Table 1.

Table 1: Outline of proposed project developmental stages and all the associated activities.

PROJECT PHASE	DEVELOPMENT ACTIVITIES FOR EACH PHASE	
PRE-CONSTRUCTION	1. Site investigations to inform the mine design and layout	
	2. Engineering design of the pit areas and the support facilities	
	3. General site clearing of the quarry areas, administration block, waste rock, supporting infrastructure	
	4. Access roads upgrading of existing tracks / creation of new routes as may be required	
	5. Implementation of the human resources, community and social programs for the operational phase of the project	
	6. Top soil removal and storage for the pit areas and supporting infrastructure	
	7. Development of the temporary construction camp	
	8. Installation of containerised offices, workshops, storage facilities.	
CONSTRUCTION	MINE SUPPORTING INFRASTRUCTURE	1. Transportation facilities, including access roads to the site and on-site roads
		2. Waste rock and mine blocks stockpiles
		3. Water supply systems
		4. Power infrastructure, including powerline and distribution systems (Generator and Solar)
		5. Administration blocks and warehouses
		6. Fuel supply and storage
		7. Workshop and equipment maintenance facilities
		8. Wastewater treatment systems
		9. Domestic solid waste disposal storage / transfer facility
		10. Storm water management in the pit and supporting infrastructure
	PIT AREA	1. Mining operations
		2. Actual and stripping of the overburden to create direct access to the fresh granite
		3. Ore production for test mining operations
		4. Test mining and commissioning
OPERATION, ONGOING MONITORING AND REHABILITATION	1. Mining operations (actual mining operations as maybe required)	
	2. Transportation of the mined blocks from pit to the sorting	
	3. Storage and transportation of granite blocks for further processing	
	4. Waste rock management / reprocessing / recovery	
	5. Ongoing exploration support	
	6. Ongoing rehabilitation and maintenance	
	7. Waste water management	
	8. Municipal solid waste management / transfer to Arandis	
	9. Environmental performance monitoring	
DECOMMISSIONING	1. Implementation of sustainable socioeconomic plan	

	2. Closure of open pits
	3. Closure of solid waste transfer station
	4. Backfill all excavated areas
	5. Closure of the mined blocks storage area
	6. Decommissioning of water and electricity infrastructure
	7. Overall land reclamation
	8. Restoration of internal roads
	9. Revegetation and aftercare as may be required



Data Sources: Esri, HERE, Garmin, Intermap, increment P. Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China, OpenStreetMap Contributors, GIS User Community, NSA, MME, MAWF and RBS Field-Based Validation Mapping and Specialist Consultants Contributions, 2023

Figure 1: Location of the ML No. 121.

PART C: 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 Namibia Nuclear Corporation (Pty) Ltd

Date: 5th June 2023



Risk – Based Solutions (RBS) CC

10 Schützen Street, Erf No. 7382
Windhoek Central Business District (CBD)
P. O. Box 1839
WINDHOEK, NAMIBIA

Tel: +264-61-306058 / 224780 / 236598
Fax: +264-061-245001, Mobile: +264-811413229
Email: frontdesk@rbs.com.na
Global Office / URL: www.rbs.com.na

Mr. Timo Mufeti
Environmental Commissioner
Department of Environmental Affairs and Forestry
Ministry of Environment, Forestry and Tourism (MEFT)
Private Bag 13306
WINDHOEK, NAMIBIA

5th June 2023

Dear Mr Mufeti, Environmental Commissioner

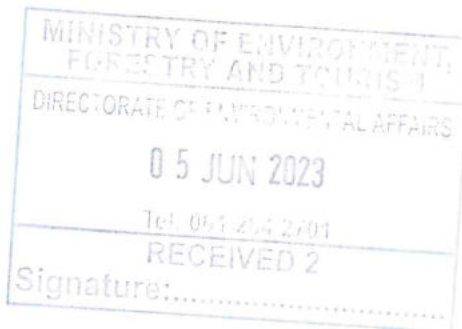
RE: Not Received Confirmation of Screening Notice Send Through Email) in Terms of Assessment Procedures (Section 35 (1)(a)(b) of the Environmental Management Act, 2007, (Act No 7 of 2007)

I hereby confirm that the confirmation of screening notice usually sent to the Proponent via email from the Ministry of Environment, Forestry and Tourism (MEFT) online Portal in terms of assessment procedures (Section 35 (1)(a)(b) of the Environmental Management Act, No. 7 of 2007), has not been received by the Proponent or EAP.

Yours Sincerely,



Dr Sindila Mwiya
EAP / International Resources Consultant
Risk-Based Solutions (RBS) CC



Namibia Nuclear Corporation (Pty) Ltd

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Mining Commissioner
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MINISTRY OF ENVIRONMENT,
FORESTRY AND TOURISM
DIRECTORATE OF ENVIRONMENTAL AFFAIRS
05 JUN 2023
Tel: 061 28 12701
RECEIVED 2
Signature:.....

**Updated Final Environmental Impact Assessment (EIA)
Report to Support the Application for the Renewal of the
Environmental Clearance Certificate (ECC) for Ongoing and
Proposed Mining and Exploration Activities in the Mining
License (ML) No. 121, Swakopmund District,
Erongo Region, West Central Namibia**



May 2023

P. O. Box 4418, Windhoek
107 Olif Palme Street, Eros Park,
Windhoek, Namibia

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MINISTRY OF ENVIRONMENT,
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DIRECTORATE OF ENVIRONMENTAL AFFAIRS
05 JUN 2023
Tel: 061 261 2701
RECEIVED 2
Signature:.....

**Updated Final Environmental Management Plan (EMP)
Report to Support the Application for the Renewal of the
Environmental Clearance Certificate (ECC) for Ongoing and
Proposed Mining and Exploration Activities in the Mining
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Erongo Region, West Central Namibia**



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DIRECTORATE OF ENVIRONMENTAL AFFAIRS

05 JUN 2023
Tel. 601 24 2781
RECEIVED 2
Signature:.....

**Environmental Monitoring Report for the Period June 2015-
April 2023 to Support the Application for the Renewal of the
Environmental Clearance Certificate (ECC) for Ongoing and
Proposed Mining and Exploration Activities in the Mining
License (ML) No. 121, Swakopmund District,
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DIRECTORATE OF ENVIRONMENTAL AFFAIRS
05 JUN 2023
Tel: 061 201 2701
RECEIVED 2
Signature:.....

**Background Information Document (BID) to Support the
Application for the Renewal of the Environmental
Clearance Certificate (ECC) for Ongoing and Proposed
Mining and Exploration Activities in the Mining License
(ML) No. 121, Swakopmund District,
Erongo Region, West Central Namibia**



May 2023

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