

Curriculum Vitae

Dr. Sindila Mwiya (PhD, MPhil, PG Cert, BEng (Hons), Pr. Eng)

SUMMARY OF QUALIFICATION

- **Doctorate of Philosophy (PhD) Engineering Geology/Geotechnical / Geoenvironmental / Environmental Engineering and Artificial Intelligence** – Research Thesis: Development of a Knowledge-Based System Methodology (KBSM) for the Design of Solid Waste Disposal Sites in Arid and Semiarid Environments (Namibia), University of Portsmouth, United Kingdom 2003
- **MPhil/PG Cert Engineering Geology/Geotechnical / Geoenvironmental / Environmental Engineering and Artificial Intelligence**, University of Portsmouth, United Kingdom, 2000
- **BEng (Hons) Engineering Geology and Geotechnics**, University of Portsmouth in the United Kingdom, 1999.

Surname MWIYA
Forename SINDILA
Date and Place of Birth 10 February 1971, Katima Mulilo, Namibia
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Professional Personal Profile

Dr Sindila Mwiya has more than eighteen (18) years of practical field-based technical industry experience in Environmental Assessment (SEA, EIA, EMP, EMS), Energy (Renewable and Non-renewable energy sources), onshore and offshore resources (minerals, oil, gas and water) exploration / prospecting, operation and utilisation, covering general and specialist technical exploration and recovery support, Health, Safety and Environment (HSE) permitting for Geophysical Surveys such as 2D, 3D and 4D Seismic, Gravity and Electromagnetic Surveys for mining and petroleum (oil and gas) operations support, through to engineering planning, layout, designing, logistical support, recovery, production / operations, compliance monitoring, rehabilitation, closure and aftercare projects lifecycles. The great array of highly technical specialist knowledge and field-based practical experiences of Dr Sindila Mwiya has now been extended to supporting the development of Environmentally Sustainable, automated / smart and Climate Change resilient homes, towns and cities.

Through his companies, Risk-Based Solutions (RBS) CC and Foresight Group Namibia (FGN) (Pty) Ltd which he founded, he has undertaken more than 200 projects for Local (Namibian), Continental (Africa) and International (Global) based clients. He has worked and continue to work for Global, Continental and Namibian based reputable resources (petroleum and mining / minerals) and energy companies such as EMGS (UK/ Norway), CGG Services UK Limited (UK/ France/Namibia), BW Offshore (Norway/Singapore /Namibia), Shell Namibia B. V. Limited (Namibia/ the Netherlands), Tullow Oil (UK/Namibia), Debmarine (DBMN) (Namibia), Reconnaissance Energy Africa Ltd (ReconAfrica) (UK/Canada/Namibia), Osino Resource Corporation (Canada/Germany/Namibia), Desert Lion Energy Corporation (Canada/ Australia/ Namibia), Petrobras Oil and Gas (Brazil) / BP (UK/ Namibia), REPSOL (Spain/ Namibia), ACREP (Namibia/Angola), Preview Energy Resources (UK), HRT Africa (Brazil / USA/ Namibia), Chariot Oil and Gas Exploration (UK/ Namibia), NABIRM (USA/ Namibia), Serica Energy (UK/ Namibia), Eco (Atlantic) Oil and Gas (Canada / USA/ Namibia), ION GeoVentures (USA), PGS UK Exploration (UK), TGS-Nopec (UK), Maurel & Prom (France/ Namibia), GeoPartners (UK), PetroSA Equatorial Guinea (South Africa / Equatorial Guinea/ Namibia), Preview Energy Resources (Namibia / UK), Sintezneftegaz Namibia Ltd (Russia/ Namibia), INA Namibia (INA INDUSTRIJA NAFTE d.d) (Croatia/ Namibia), Namibia Underwater Technologies (NUTAM) (South Africa/Namibia), InnoSun Holdings (Pty) Ltd and all its subsidiary renewable energy companies and projects in Namibia (Namibia / France), HopSol (Namibia/Switzerland), Momentous Solar One (Pty) Ltd (Namibia / Canada), OLC Northern Sun Energy (Pty) Ltd (Namibia) and more than 100 local companies. Dr Sindila Mwiya is highly qualified with extensive practical field-based experience in petroleum, mining, renewable energy (Solar, Wind, Biomass, Geothermal and Hydropower), Non Renewable energy (Coal, Petroleum, and Natural Gas), applied environmental assessment, management and monitoring (Scoping, EIA, EMP, EMP, EMS) and overall industry specific HSE, cleaner production programmes, Geoenvironmental, geological and geotechnical engineering specialist fields.

Dr Sindila Mwiya has undertaken and continue to undertake and manage high value projects on behalf of global and local resources and energy companies. Currently, (2020-2023) Dr Sindila Mwiya is responsible for permitting planning through to operational and completion compliance monitoring, HSE and engineering technical support for multiple major upstream onshore and offshore petroleum, minerals and mining projects, Solar and Wind Energy Projects, manufacturing and environmentally sustainable, automated / smart and Climate Change resilient homes developments in different parts of the World including Namibia. Currently, Dr Sindila Mwiya is developing a 16 Ha commercial and residential Mwale Mwiya Park in the Town of Katima Mulilo, Zambezi Region, Namibia as one of first advanced Environmentally Sustainable, automated / smart and Climate Change resilient development in Namibia. He continue to worked as an International Resources Consultant, national Environmental Assessment Practitioner (EAP) / Environmentally Sustainable, automated / smart and Climate Change resilient homes developer, Engineering / Technical Consultant (RBS / FGN), Project Manager, Programme Advisor for the



Department of Natural and Applied Sciences, Namibia University of Science and Technology (NUST) and has worked as a Lecturer, University of Namibia (UNAM), External Examiner/ Moderator, NUST, National (Namibia) Technical Advisor (Directorate of Environmental Affairs, Ministry of Environment and Tourism / DANIDA – Cleaner Production Component) and Chief Geologist for Engineering and Environment Division, Geological Survey of Namibia, Ministry of Mines and Energy and a Field-Based Geotechnician (Specialised in Magnetics, Seismic, Gravity and Electromagnetics Exploration and Survey Methods) under the Federal Institute for Geoscience and Natural Resources (BGR) German Mineral Exploration Promotion Project to Namibia, Geophysics Division, Geological Survey of Namibia, Ministry of Mines and Energy.

He has supervised and continue to support a number of MScs and PhDs research programmes and has been a reviewer on international, national and regional researches, plans, programmes and projects with the objective to ensure substantial local skills development, pivotal to the national socioeconomic development through the promotion of sustainable natural resources coexistence, management, development, recovery, utilisation and for development policies, plans, programmes and projects financed by governments, private investors and donor organisations. Since 2006 until 2017, he has provided extensive technical support to the Department of Environmental Affairs (DEA), Ministry of Environment and Tourism (MET) through GIZ in the preparation and amendments of the Namibian Environmental Management Act, 2007, (Act No. 7 of 2007), new Strategic Environmental Assessment (SEA) Regulations, preparation of the updated Environmental Impact Assessment (EIA) Regulations as well as the preparation of the new SEA and EIA Guidelines and Procedures all aimed at promoting effective environmental assessment and management practices in Namibia.

Among his academic achievements, Dr Sindila Mwiya is a holder of a PhD (Engineering Geology/Geotechnical / Geoenvironmental / Environmental Engineering and Artificial Intelligence) – Research Thesis: Development of a Knowledge-Based System Methodology (KBSM) for the Design of Solid Waste Disposal Sites in Arid and Semiarid Environments, MPhil/PG Cert and BEng (Hons) (Engineering Geology and Geotechnics) qualifications from the University of Portsmouth, School of Earth and Environmental Sciences, United Kingdom. During the 2004 Namibia National Science Awards, organised by the Namibian Ministry of Education, and held in Windhoek, Dr Sindila Mwiya was awarded the Geologist of the Year for 2004, in the professional category. Furthermore, as part of his professional career recognition, Dr Sindila Mwiya is a life member of the Geological Society of Namibia, Consulting member of the Hydrogeological Society of Namibia and a Professional Engineer registered with the Engineering Council of Namibia.

Skills and Experiences with more than 200 Consulting Projects undertaken 2004-2019 (See RBS Profile)

Multidisciplinary Experienced PhD Degree-Qualified Professional Registered Engineer with the Engineering Council of Namibia specialised in the following:

- ❖ Energy (fossil Fuels and Renewables)
- ❖ Mining (Mineral Exploration and Mining)
- ❖ Petroleum (Oil and gas Exploration and Production)
- ❖ Water Resources Exploration, Recovery and Sustainable Utilisation
- ❖ Development of Environmentally Sustainable, Automated / Smart and Climate Change resilient homes, housing, towns and cities
- ❖ Specialist skills in Environmental policy formulation, development and technical support
- ❖ Local, Regional, National, Bilateral and Multilateral Sectoral Projects, from Development to Management, Evaluation and Monitoring
- ❖ Pollution Prevention (P2) and Cleaner Production (CP) Programmes, from Development to Management, Evaluation and Monitoring
- ❖ Municipal and Mine Waste Streams and Systems Analysis
- ❖ Municipal and Mine Landfill / Waste Disposal Sites Development and Management
- ❖ Waste Management Minimum Requirements and Management Strategies
- ❖ Land Use Planning for Rural and Urban Regional and Local Government Developmental Plans, Projects, Programmes and Strategies
- ❖ Geological Technical Support Services to Large and Small Scale, Exploration, Mining and Oil Companies
- ❖ Ground Engineering Site Investigation [Geo-Engineering] for various Local, Regional and National Infrastructure Development Projects
- ❖ Water and Construction Materials Investigation, Evaluations, Development, Management and Monitoring
- ❖ Programmes and Strategies Management and Technical Support Services to Line Ministries, Regional Councils and Local Authorities
- ❖ Strategic Environmental Assessments -SEAs
- ❖ Environmental Impact Assessments - EIAs
- ❖ Environmental Management Plans EMPs
- ❖ Environmental Management Systems -EMSs
- ❖ Training and industry research in Waste Management, Applied Environment and Geo-Engineering fields

Educational Background

2000 - 2003 University of Portsmouth, UK: Doctor of Philosophy (**PhD**) in **Geotechnical and Environmental Engineering (Geoenvironmental Engineering and Artificial Intelligence)** - **Research Title:** "Development of a Knowledge-Based System



1999 - 2000	Model Methodology (KBSMM) for Design of Solid Waste Disposal Sites in Arid and Semiarid Environments” with test sites covering all the Regions of Namibia; University of Portsmouth, UK: MPhil and Postgraduate Certificate in Scientific Research Methods (PG Cert)
1996 - 1999	University of Portsmouth, UK: BEng (Hons) Engineering Geology and Geotechnics (2/1, Upper Class) and Neil Duncan Special Award for best final year research project on Design of Kupferberg Landfill Site, Windhoek, Namibia
1995 - 1996	University of Portsmouth, UK: Advanced Certificate in Extended BEng (Hons)/ MEng Foundation year. Subjects studied are Mathematics (A+), Design (B), Electrical Science (A+), Engineering Science (A), Engineering Material (A+) and Communication Skills (A).
1991	Sesheke Secondary School: O-Level Certificate - Subjects studied: English language (B), Mathematics (A) Science (B) Geography (B), Biology (B), Silozi Language (B), Commerce (C) and Religious Education (C).

Employment / Contracts

2004-Now	Founder and Technical Consultant with Risk-Based Solutions (RBS) CC and Foresight Group Namibia (FGN) PTY LTD
2001- 2004	Chief (4A L1) Professional Deputy Director Level: Division Engineering and Environment, Directorate of Geological Survey, Ministry of Mines and Energy, Namibia.
2000-Present	Part-time Lecturer, Faculty of Science, University of Namibia (UNAM) and Programme Advisor for the Department of Natural and Applied Sciences and External Examiner/Moderator-Namibia University of Science and Technology-NUST.
1999-2001	Senior Engineering and Environmental Geologist, Applied Geosciences, Directorate of Geological Survey, Ministry of Mines and Energy, Namibia.
1992-1995	Geotechnician - Field-Based Geotechnician (Specialised in Magnetics, Seismic, Gravity and Electromagnetics Exploration and Survey Methods) under the Federal Institute for Geoscience and Natural Resources (BGR) German Mineral Exploration Promotion Project to Namibia, Geophysics Division, Geological Survey of Namibia, Ministry of Mines and Energy.

Selected Short-Term Specialised Courses

February 2013	Offshore Survival, HUET and Firefighting, Cape Town South Africa
October 2003	Accelerated Leadership Masterclass, management course offered by the Centre for Management Studies, South Africa
May 2002	Mining and Coastal Environmental Assessment course offered by CSIR, South Africa.
November 2001	Paleoseismology in Seismic Hazard Assessment offered by the Association of Engineering Geologists, South Africa.
September 2000	Applied Environmental Economics offered by the European Commission, Windhoek, Namibia
January 2000	ER Mapper and GIS in natural resources management training offered by Geodass, Windhoek
May 1995	Computer application training: Basic Programming offered by ITC, Windhoek, Namibia.

Professional membership

- Registered Professional Engineers with the Engineering Council of Namibia (PE24016).
- Member of the Geological Society of Namibia
- Consulting member of the Hydrogeological Society of Namibia

Languages

- English –Excellent (Read, write and speak)
- Silozi and Subiya – mother tongue (Read, write and speak)

Selected Publications and Conference papers (20)

Annex:

SELECTED CLIENT PORTFOLIO 2004 -2020

