

Family name: Abuor
 First names: Philip
 Date of birth: 22/12/65
 Nationality: Kenyan
 Civil status: Married

6. Education:

Institution:	Kenyatta University, Nairobi, Kenya
Date:	2016-Candidate
Degree:	PhD -Environmental Planning and Management

Institution:	Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya
Date:	2005-2009
Degree:	MSc In Environmental Science

Institution:	University of Staffordshire, UK
Date:	2003-2004
Degree:	Msc -Environmental Management

Institution:	University of Nairobi
Date:	1988-1991
Degree:	B.Sc in Chemistry

Institution:	Kenya Institute of Management (KIM)
Date:	1988-1991
Diploma:	Diploma in Business Administration

7. Language skills, mark 1 (worst) to 5 (best) for competence:

Language	Reading	Speaking	Writing
English	5	5	5
Kiswahili	5	4	4

8. Membership of professional bodies:

- International Association for Impact Assessment (IAIA)
- Ecological Society of East Africa (ESEA)
- Institute of Environmental Assessors of Kenya (IEK)
- National Association for Clean Air (NACA- South Africa)
- Chairman- National Environmental Management Authority (Accrediation of NEMA Approved Laboratories)
- Approved Air Quality Monitor (DOSHS)

9. Other skills:

- Microsoft Office (Word, Excel, Access, Power Point..)
- AERMOD (AERMET, AEMAP) for Air Dispersion Modelling
- CULPUFF/CULMET (Air Dispersion Modelling)
- IMMI for Noise Propagation/Modeling



10. Present position: Environmental Management Consultant

11. Years within the firm: 25 Years

12. Key qualifications (relevant to the project):

Philip Abuor is a registered environmental Lead Expert with NEMA and Approved Air & Noise Quality Monitor (GOK). He has actively been involved in environmental performance monitoring and baseline studies for over **20 years**. Currently, he is the Principal Environmental Consultant with ECE responsible for technical review of environmental monitoring and assessment reports covering baseline studies, ESIAs/EAs, Ambient and Source Air Emissions Monitoring and EMS implementation of various industry categories in East Africa Region.

Philip has post-graduate training in Environmental Science, environmental management system (ISO 14001- Lead Assessor), environmental health risk assessment and Climate Change Assessment under the requirements of the Kyoto Protocol (CDM/JI). Currently is a PhD Degree in Environmental Management and Planning candidate at the School of Environmental Studies Kenya University in Nairobi, Kenya

13. Specific country experience:

Country	Date from (month/year) – to (month/year)	
Kenya	2007-to date (work station)	
Uganda	2007 -2017 (intermittent)	
Rwanda	2011- 2017 (intermittent)	
Ethiopia	2012-2017 (intermittent)	
Tanzania	2007-2017 (Intermittent)	
Zambia	2011	

14. Professional experience record (key projects):

Date	2016-2017
Location	Lokichar Basin- Turkana, Kenya
Company	Tullow Kenya BV/Golder Associates
Position	Team Leader -Ground Water and Drilled Mud Cuttings Monitoring
Description	Water Quality Sampling/Monitoring in support of the ESIA for South Lokichar Basin Oil Production
	Ground Water Sampling and Analysis
	Data interpretation and determination of compliance with the national and international protocols
	 Report production and presentation to the proponents/project developers



Date	November- December 2017
Location	Machakos County, Kenya
Company	E-Cue and Associates/KeNHA
Position	Lead Expert- Air and Noise Assemment
Description	Construction of second carriageway of the Athi River – Machakos Turnoff Section of the Nairobi – Mombasa Road (A109) - Baseline Noise and Air Monitoring as per the World Bank/IFC EHS Guidelines • Establishment of the baseline air, noise and vibration along the project corridor with specific reference to the sensitive receptors • A review of the regulatory requirements for the identified key pollutants
	 A study of the receiving environment and identification of potential sensitive receptors Data Analysis and Reporting

Date	April 2017- July 2017
Location	Kigali, Rwanda
Company	Energy Utility Corporation Limited- EUCL
Position	Lead Consultant
Description	 Environmental Air and Noise Impact Assessment and Modeling for Jabana II Thermal Power Plant, Kigali as per the REMA and IFC Standards. Noise and Vibration Measurements Atmospheric emissions measurements (PM, SO₂, NOx, CxHy, CO, CO₂, O₂, Temperature, Flow Rate) Identification of emission sources/Senstivie Receptors Modeling and establishing the fall out areas/locations Assess significance of the air noise impacts/mitigation measures Suggestion appropriate of management and monitoring plan for the plant

Date	December 2016- March 2017	
Location	Lake Kivu, Rwanda	
Company	Symbion Power Plant	
Position	Lead Consultant- Air and Noise Impact Assessment	
Description	 Environmental Air and Noise Impact Assessment and Modeling of the proposed Symbion Lake Kivu Gas Power Plant as per REMA and IFC Stds. Baseline Noise Assessment Baseline Air Quality Assessment (PM10, PM2.5SO₂, NOx, VOCs, CO, CO₂ Identification of Senstivie Receptors Modeling and prediction of the fall out areas/locations Assessment of significance of the air noise impacts/ providing mitigation measures Suggestion of management and monitoring plan for the plant 	



Date	October 2017
Location	Karuma ,Arua, Uganda
Company	Sinohydros Corporation Ltd- Karuma Hydro Power Project
Position	Lead Consultant Air and Noise Consultant
Description	Workplace Environment Air Noise Assessment
	 Expert for Air and Noise Monitoring Air and noise measurements- underground tunnels (Power House, MTC, HRT, Surge Chamber and TRT) Data interpretation and determination of compliance with the national and international protocols/Best Practice Report production and presentation to the proponents/project developers

Date	2012-2017
Location	Dar- es Salaam, Tanzania
Company	Tanzania Portland Cement Company Limited
Position	Lead Expert
Description	Annual Atmospheric/Stack Emissions Monitoring and Reporting under the IFC/World Bank Project Financing Requirements: Review of the stack measurement reports Data interpretation and determination of compliance with the national and IFC EHS Guidelines Report production and presentation to the proponents/project developers

Date	2013-2013
Location	Rwanda
Company	IFC World Bank
Position	Lead Consultant
Description	 Review of the existing water sampling and testing protocols in Rwanda Development of Water Sampling Protocals Capacity Buidling/Training of the Water Sampling Team in Rwanda.

Date	2008-2017
Location	Mombasa, Kenya
Company	Bamburi Cement Company- LafargeHolcim
Position	Lead Consultant
Description	Annual Atmospheric/Stack Emissions Monitoring and Reporting under the LafargeHolcim Standards and the National/IFC and WB EHS Guidelines:
	 Review of the stack measurement reports Data interpretation and determination of compliance with the national and LafargeHolcim Standards Report production and presentation to the proponent



Date	2010- 2017
Location	Nairobi, Kenya
Company	Iberafrica Power Plant
Position	Project Manager/Team Leader
Description	 Annual Atmospheric/Stack Emissions Monitoring and Reporting under the Union Fenosa Standards and the National/IFC/WB EHS Guidelines: Review of the stack measurement reports Data interpretation and determination of compliance with the national and Union Fenosa Standards Report production and presentation to the proponent

Date	2010- 2017
Location	Mombasai, Kenya
Company	Tsavo Power Plant
Position	Project Manager/Team Leader
Description	 Annual Atmospheric/Stack Emissions Monitoring and Reporting under the National /International Finance Corporation/World Bank Guidelines: Review of the stack measurement reports Data interpretation and determination of compliance with the national and IFC EHS Guidelines Report production and presentation to the proponent

Date	2010- 2017
Location	Kilifi, Kenya
Company	Rabai Power Plant
Position	Project Manager/Team Leader
Description	Annual Atmospheric/Stack Emissions Measurements and Reporting under the National NEMA/IFC EHS Guidelines: Review of the stack measurement reports Data interpretation and determination of compliance with the national and IFC EHS Guidelines Report production and presentation to the proponent

Date	2010- 2017
Location	Thika, Kenya
Company	Thika Power Plant
Position	Project Manager/Team Leader
Description	 Annual Atmospheric/Stack Emissions Measurements and Reporting under the National NEMA/IFC EHS Guidelines: Review of the stack measurement reports Data interpretation and determination of compliance with the national and IFC EHS Guidelines Report production and presentation to the proponent
Date	2012- 2017



Location	Athi River, Kenya
Company	Gulf Power Plant
Position	Project Manager/Team Leader
Description	Annual Atmospheric/Stack Emissions Measurements and Reporting
	under the National NEMA/IFC EHS Guidelines:
	Review of the stack measurement reports
	 Data interpretation and determination of compliance with the national and IFC EHS Guidelines
	 Report production and presentation to the proponent

Date	2016- 2017
Location	Nairobi, Kenya
Company	Luxconsult/KfW/Ministry of Transport and Infrustructure
Position	Lead Expert- Air and Noise Assemment
Description	 easibility and Detailed Design of a Corridor of a Bus Rapid Transit in Nairobi, Kenya. EuropeAid/136090/DH/SER/KE. Lines 3 West, 4 West and 3 East Baseline air and noise measuments along the BRT Project Corridor-Lines 3West, 4West and 3East Data interpretation and reporting in line with the NEMA and kfW Environmental Safeguards

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Date	2015-2016
Location	Loitoktok, Kenya
Company	Devki Energy Company Limited
Position	Lead Expert- Air and Noise Assemment
Description	Air Quality Impact Assessment of the Devki Coal Plant as per IFC Environmental Safeguard Requirements:
	 Analysis of available baseline air quality information and determine the ambient air pollutants
	 A review of the regulatory requirements for the identified key pollutants against which compliance need to be assessed.
	 A review of the proposed project activities and identify the sources of emissions and associated sources.
	A study of the receiving environment and identification of potential sensitive receptors
	 Determine and simulate by way of atmospheric dispersion modelling ground level concentrations arising from the proposed project



Date	2014-2015
Location	Nairobi, Kenya
Company	Kenya Airports Authority/Runji and Partners Engineers
Position	Lead Expert- Air and Noise Assemment
Description	Air and Noise Impact Assessment part of the ESIA of the proposed TERMINAL
	expansion Greenfield Jomo Kenyatta International Airport (GFT), Nairobi;
	client Kenya Airports Authority:
	Baseline environmental noise and air measurements and Reporting
	Analysis of available baseline air quality information and determine the ambient air pollutants
	A review of the regulatory requirements for the identified key pollutants against which compliance need to be assessed.
	A review of the proposed project activities and identify the sources of emissions and associated sources.
	A study of the receiving environment and identification of potential sensitive receptors

Date	2010
Location	Athi River, Kenya
Company	Gulf Energy
Position	Team Leader- Air and Noise Assessment
Description	Baseline Study for Proposed Gulf Energy Medium Speed Diesel Power
	Plant in Athi River, Kenya:
	Established the baseline air and noise of the proposed project area
	Air dispersion modelling of the proposed thermal power plant
	Predicted the selected air pollutants fall out areas
	Identified the sensitive receptors
	Provided/suggested mitigation measures and project alternatives
	Data analysis and reporting to the proponents/project funding
	agencies – International Finance Corporation (IFC)



Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualification, and my experience.

Date: 18/02/2020	(July)	
	Signature of expert	Signature of authorised

Full name of authorised representative: Denis Repushinki